

SITE INVESTIGATION REPORT ADDENDUM

Rhode Island Recycled Metals
434 Allens Avenue
Providence, Rhode Island
RIDEM File No. SR-28-0143

June 2024

Prepared For:

Jared Sevinor
Rhode Island Recycled Metals
434 Allens Avenue
Providence, RI

Prepared By:



359 Putnam Pike, Suite 105
Smithfield, RI 02917

LSE Project Number: 09050H10



Environmental Assessment, Remediation and Compliance Solutions

June 17, 2024

Ashley Blauvelt
Office of Land Revitalization and Sustainable Materials Management
RIDEM
235 Promenade Street
Providence, RI 02908

RE: Site Investigation Report Addendum
434 Allens Avenue
Providence, Rhode Island
Plat Map 47 / Lot 601 & Plat 55 / Lot 10
LSE Project No. 09050H10

Dear Ms. Blauvelt:

The following Site Investigation Report (SIR) Addendum was prepared for the above-referenced site in response to the Departments correspondence dated April 22, 2024 and in accordance with Section 1.8 (Site Investigation) of the Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations) as amended (January 4, 2022).

This SIR Addendum was completed to assess potential impacts to soil resulting from a fire in the light iron stockpile on April 10, 2024. In order to confirm that soil sampling locations would be representative of areas actually impacted by the fire, the Department agreed in a meeting with RIRM on May 9, 2024 that a Site meeting was warranted. As such, representatives of Lake Shore Environmental (LSE) and the Department confirmed sampling locations at the RIRM Site on May 16, 2024.

If you have any questions regarding this SIR Addendum or the project in general, please feel free to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads "David J. Hazebrouck". The signature is written in a cursive style.

David J. Hazebrouck, P.G., LSP, LEP
Principal

C: Mr. Jared Sevinor, RIRM

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434 Allens Avenue
Providence, Rhode Island**

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1.0 PROJECT BACKGROUND

The subject Rhode Island Recycled Metals (RIRM) Site is comprised of two contiguous lots identified as Plat 47, Lot 601 and Plat 55, Lot 10. A Site Locus Map is provided as [Figure 1](#). The Site is currently improved with one permanent building, two temporary structures and an office trailer. The Site is predominantly unpaved or surfaced with an asphalt cap except for several small concrete slabs.

This SIR Addendum presents a summary of findings related to supplemental soil investigations completed at the Department's request as a result of a fire that occurred at the subject Site on April 10, 2024. The constituents of concern (COC) for the Site as a result of this fire included Volatile Organic Compounds (VOCs), Total Petroleum Hydrocarbons (TPH), and Polycyclic Aromatic Hydrocarbons (PAHs).

The fire occurred on the northern portion of the light iron pile at the RIRM facility. The light iron pile, at the time of the fire and this supplemental sampling, was located in the central/eastern portion of the facility.

2.0 SUPPLEMENTAL INVESTIGATIONS

Areas of concern investigated as part of this SIR Addendum included the portion of the light iron pile where the fire occurred, the preferential pathway runoff followed during firefighting efforts, as well as locations noted by RIDEM where oil sheens were observed in runoff near the light iron pile. All soil samples were collected from a depth of approximately 1 foot below grade (ft-bg). SIR Addendum soil sampling locations are shown in [Figure 2](#).

LSE collected three soil samples from discrete locations beneath the light iron pile. RIRM representatives utilized machinery to move portions of the light iron pile at planned sampling locations. Two samples were also collected along the runoff channel at equidistant locations between the pile and the sloped portion of the Site near the Providence River. LSE returned to the Site to collect four additional surficial soil samples in locations where RIDEM personnel observed oil sheens.

All nine soil samples were submitted to New England Testing Laboratory (NETL) under chain of custody for VOC, TPH, and PAH analyses. The analytical results were tabulated and compared to applicable RIDEM Method 1 Soil Objectives as shown in attached [Table 2](#). The soil analytical data report is included in [Appendix A](#).

Analytical results for VOCs indicate that no VOC constituent was detected at greater than RIDEM Method 1 Soil Objectives.

Analytical results for TPH indicate that one sample, HA-8, contained a TPH concentration that exceeded Industrial/Commercial Direct Exposure Criteria (I/C-DEC). No other sample contained TPH at concentrations exceeding the I/C-DEC.

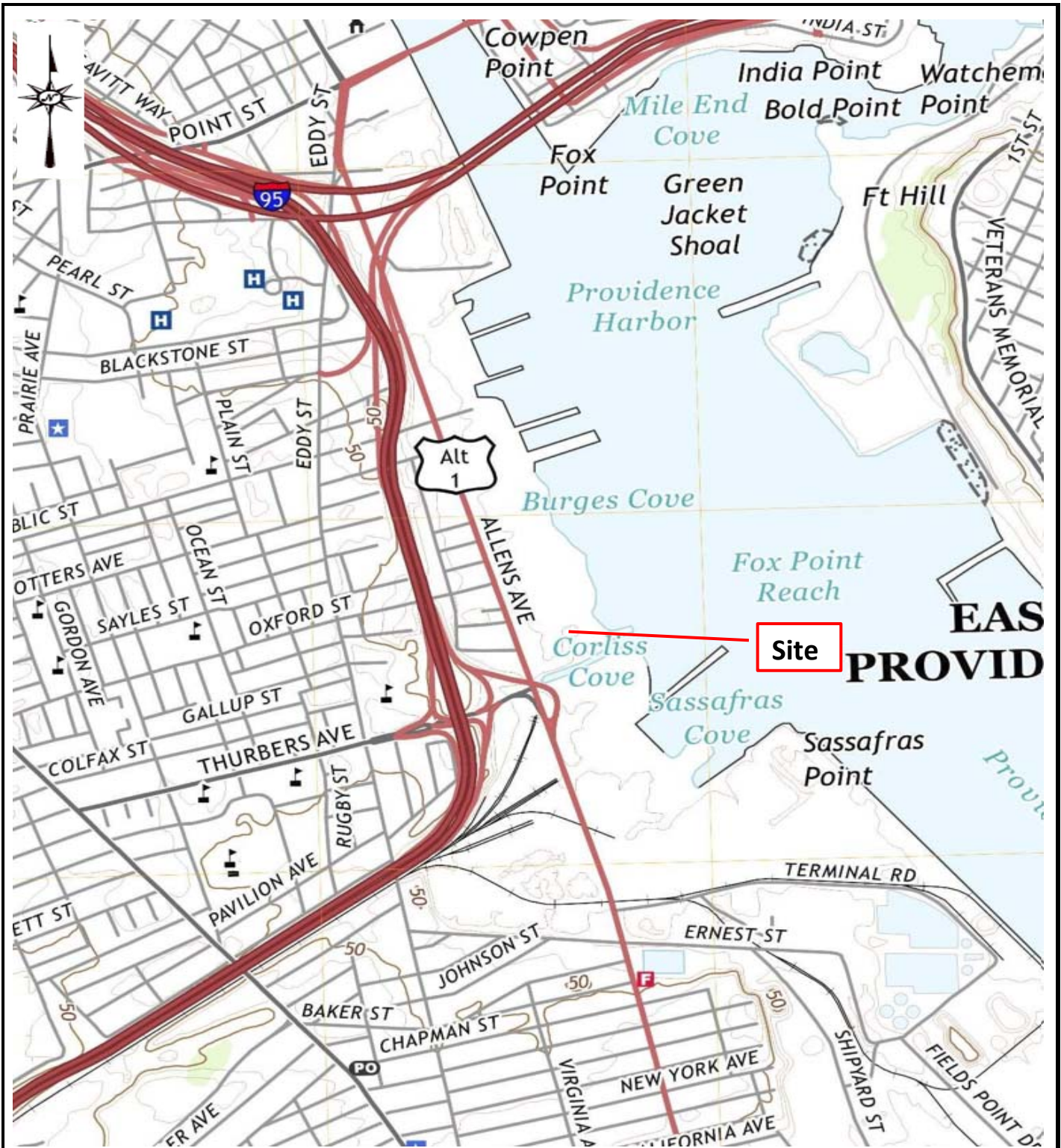
Soil analytical results indicate that various polycyclic aromatic hydrocarbons (PAHs) were detected above method reporting limits in six of the nine samples. I/C-DEC exceedances were noted in four of those six samples for Benzo(a)pyrene.

3.0 CONCLUSIONS & RECOMMENDATIONS

Analytical results from supplemental sampling reported I/C-DEC exceedances in four samples for PAHs and one sample for TPH. The PAH exceedances could be attributable to incomplete combustion as a result of the fire, or to the presence of asphalt grindings used as cap material throughout the Site. The TPH exceedance was located near where former engine block processing was previously conducted at the Site (an activity no longer permitted), which could account for the elevated TPH concentration.

Site investigations to date have adequately characterized Site soils. Results indicate that the most effective remedy to mitigate direct exposure to contaminants in Site soils remains the previously proposed remedial alternative of Site-wide encapsulation of jurisdictional soils at the Site. We trust that following the Department's review of this SIR Addendum, a Program Letter for the RIRM Site will be issued in the near future.

FIGURES



QUADRANGLE LOCATION

Figure No.	1	
Drawing Title:	Site Locus 434 Allens Avenue Providence, RI	
Date Prepared: 11/27/2023	Prepared By:	IG
Approximate Scale:	NTS	
LSE Proj. No. 09050H10		

Source: Map taken from USGS 7.5 minute topographic Providence Quad 2021

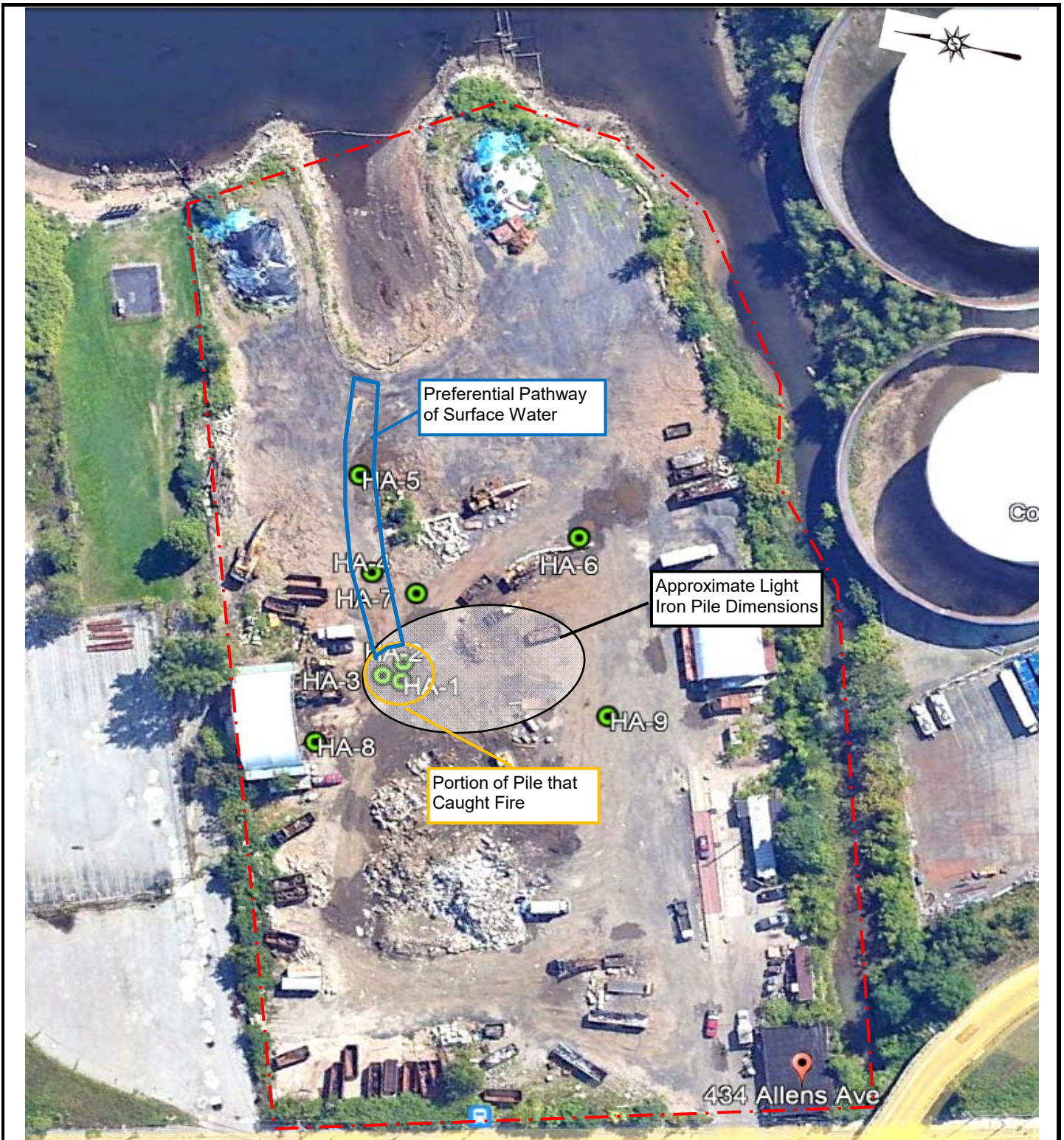


Figure No.	2
Drawing Title:	SIR Addendum - Supplemental Soil Sampling Locations 434 Allens Avenue Providence, RI
Date Created:	6/12/2024
Prepared By:	IG
Approximate Scale:	NTS
LSE Proj. No.	09050H10

Source: Map Dimensions taken from Google Earth.

TABLES

TABLE 1

SUMMARY ANALYTICAL SURFICIAL SOIL DATA - POST-FIRE

434 Allens Ave, Providence, RI

Detected Analytes Only

	Date Sampled:	4/24/2024	4/24/2024	4/24/2024	4/24/2024	4/24/2024	6/3/2024	6/3/2024	6/3/2024	6/3/2024	R-DEC	I/C-DEC	GB-LC	
		Sample:	HA-1	HA-2	HA-3	HA-4	HA-5	HA-6	HA-7	HA-8				HA-9
		Location:	pile	pile	pile	pathway	pathway	oil sheen	oil sheen	oil sheen				oil sheen
Case No.:	4D25008	4D25008	4D25008	4D25008	4D25008	4F04116	4F04116	4F04116	4F04116					
	Units													
Volatile Organic Compounds														
Benzene	mg/kg	0.206	ND	ND	ND	ND	ND	ND	ND	ND	2.5	200	4.3	
sec-Butylbenzene	mg/kg	0.511	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	
n-Butylbenzene	mg/kg	1.51	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	
Methyl t-butyl ether (MTBE)	mg/kg	0.158	ND	ND	ND	ND	ND	ND	ND	ND	390	10,000	100	
Chlorobenzene	mg/kg	ND	ND	0.281	ND	ND	ND	ND	ND	ND	210	10,000	100	
Ethylbenzene	mg/kg	0.931	ND	0.31	0.14	0.169	ND	ND	ND	ND	71	10,000	62	
Isopropylbenzene	mg/kg	0.325	ND	ND	ND	ND	ND	ND	ND	ND	27	10,000	NA	
p-Isopropyltoluene	mg/kg	0.747	ND	0.123	ND	ND	ND	ND	ND	ND	NA	NA	NA	
Naphthalene	mg/kg	2.3	ND	0.711	ND	ND	ND	ND	0.075	ND	54	10,000	NA	
n-Propylbenzene	mg/kg	0.874	ND	0.111	ND	ND	ND	ND	ND	ND	NA	NA	NA	
Styrene	mg/kg	5.33	ND	0.858	ND	ND	ND	0.577	ND	ND	13	190	64	
Toluene	mg/kg	2.34	ND	0.554	0.072	0.262	ND	ND	ND	ND	190	10,000	54	
1,3,5-Trimethylbenzene	mg/kg	1.99	ND	0.307	ND	ND	ND	ND	ND	ND	NA	NA	NA	
1,2,4-Trimethylbenzene	mg/kg	6.07	ND	0.572	ND	ND	ND	ND	ND	ND	NA	NA	NA	
Total xylenes	mg/kg	4.62	ND	1.32	ND	0.51	1.55	1.15	ND	ND	110	10,000	NA	
Trichlorofluoromethane	mg/kg	ND	ND	4.16	ND	ND	ND	ND	ND	ND	NA	NA	NA	
Semi-Volatile Organic Compounds														
2-Methylnaphthalene	mg/kg	1.27	ND	ND	ND	ND	ND	ND	ND	ND	123	10,000	NA	
Anthracene	mg/kg	0.757	ND	ND	ND	ND	ND	ND	ND	ND	35	10,000	NA	
Benzo(a)anthracene	mg/kg	1.81	ND	2.15	1.7	1.12	ND	ND	ND	ND	0.9	7.8	NA	
Benzo(a)pyrene	mg/kg	1.91	0.757	2.37	2.18	1.53	ND	ND	ND	ND	0.4	0.8	NA	
Benzo(b)fluoranthene	mg/kg	2.68	1.14	3.03	2.94	1.84	ND	ND	ND	ND	0.9	7.8	NA	
Benzo(g,h,i)perylene	mg/kg	1.58	0.735	1.57	1.52	1.4	ND	ND	ND	ND	0.8	10,000	NA	
Benzo(k)fluoranthene	mg/kg	0.757	ND	1.19	1.09	ND	ND	ND	ND	ND	0.9	78	NA	
Chrysene	mg/kg	2.06	0.724	2.46	1.93	1.18	ND	ND	ND	ND	0.4	780	NA	
Fluoranthene	mg/kg	3.99	0.94	4.41	2.59	1.8	ND	ND	1.82	ND	20	10,000	NA	
Indeno(1,2,3-cd)pyrene	mg/kg	1.61	ND	1.66	1.53	1.19	ND	ND	ND	ND	0.9	7.8	NA	
Phenanthrene	mg/kg	2.95	ND	2.96	1.37	0.892	ND	ND	ND	ND	40	10,000	NA	
Pyrene	mg/kg	4.47	1.33	4.42	2.83	2.29	ND	ND	2.1	ND	13	10,000	NA	
Total Petroleum Hydrocarbons														
TPH	mg/kg	1400	1370	1270	1510	1220	1430	1760	9280	1240	500	2,500	2,500	

Notes: -- / NA Not Analyzed / Not Available
R-DEC Exceeds Residential Direct exposure Criteria
I/C-DEC Exceeds Industrial/Commercial Direct exposure Criteria
GB-LC Exceeds GB Leachability Criteria
mg/kg milligrams per kilograms (parts per million)
ND Not detected above method reporting limits

APPENDIX A

Analytical Data Reports



New England Testing Laboratory, Inc.
(401) 353-3420

REPORT OF ANALYTICAL RESULTS

NETLAB Work Order Number: 4D25008
Client Project: 09050 - RIRM, 434 Allens Ave, Providence

Report Date: 09-May-2024

Prepared for:

Dave Hazebrouck
Lake Shore Environmental
359 Putnam Pike Suite 105
Smithfield, RI 02917

Richard Warila, Laboratory Director
New England Testing Laboratory, Inc.
59 Greenhill Street
West Warwick, RI 02893
rich.warila@newenglandtesting.com

Samples Submitted :

The samples listed below were submitted to New England Testing Laboratory on 04/25/24. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provided to us by the client which are indicated on the custody record. The case number for this sample submission is 4D25008. Custody records are included in this report.

Lab ID	Sample	Matrix	Date Sampled	Date Received
4D25008-01	HA-1	Soil	04/24/2024	04/25/2024
4D25008-02	HA-2	Soil	04/24/2024	04/25/2024
4D25008-03	HA-3	Soil	04/24/2024	04/25/2024
4D25008-04	HA-4	Soil	04/24/2024	04/25/2024
4D25008-05	HA-5	Soil	04/24/2024	04/25/2024

Request for Analysis

At the client's request, the analyses presented in the following table were performed on the samples submitted.

HA-1 (Lab Number: 4D25008-01)

Polynuclear Aromatic Hydrocarbons
Total Petroleum Hydrocarbons
Volatile Organic Compounds

Method

EPA 8270D
EPA-8100-mod
EPA 8260C

HA-2 (Lab Number: 4D25008-02)

Polynuclear Aromatic Hydrocarbons
Total Petroleum Hydrocarbons
Volatile Organic Compounds

Method

EPA 8270D
EPA-8100-mod
EPA 8260C

HA-3 (Lab Number: 4D25008-03)

Polynuclear Aromatic Hydrocarbons
Total Petroleum Hydrocarbons
Volatile Organic Compounds

Method

EPA 8270D
EPA-8100-mod
EPA 8260C

HA-4 (Lab Number: 4D25008-04)

Polynuclear Aromatic Hydrocarbons
Total Petroleum Hydrocarbons
Volatile Organic Compounds

Method

EPA 8270D
EPA-8100-mod
EPA 8260C

HA-5 (Lab Number: 4D25008-05)

Polynuclear Aromatic Hydrocarbons
Total Petroleum Hydrocarbons
Volatile Organic Compounds

Method

EPA 8270D
EPA-8100-mod
EPA 8260C

Method References

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, USEPA

Case Narrative

Sample Receipt:

The samples associated with this work order were received in appropriately cooled and preserved containers. The chain of custody was adequately completed and corresponded to the samples submitted.

Exceptions: None

Analysis:

All samples were prepared and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control requirements and allowances. Results for all soil samples, unless otherwise indicated, are reported on a dry weight basis.

Exceptions: None

Results: Volatile Organic Compounds 8260C (5035-HL)**Sample: HA-1****Lab Number: 4D25008-01 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		6550	ug/kg	05/08/24	05/08/24
Benzene	206		131	ug/kg	05/08/24	05/08/24
Bromobenzene	ND		131	ug/kg	05/08/24	05/08/24
Bromochloromethane	ND		131	ug/kg	05/08/24	05/08/24
Bromodichloromethane	ND		131	ug/kg	05/08/24	05/08/24
Bromoform	ND		131	ug/kg	05/08/24	05/08/24
Bromomethane	ND		131	ug/kg	05/08/24	05/08/24
2-Butanone	ND		3270	ug/kg	05/08/24	05/08/24
tert-Butyl alcohol	ND		655	ug/kg	05/08/24	05/08/24
sec-Butylbenzene	511		131	ug/kg	05/08/24	05/08/24
n-Butylbenzene	1510		131	ug/kg	05/08/24	05/08/24
tert-Butylbenzene	ND		131	ug/kg	05/08/24	05/08/24
Methyl t-butyl ether (MTBE)	158		131	ug/kg	05/08/24	05/08/24
Carbon Disulfide	ND		131	ug/kg	05/08/24	05/08/24
Carbon Tetrachloride	ND		131	ug/kg	05/08/24	05/08/24
Chlorobenzene	ND		131	ug/kg	05/08/24	05/08/24
Chloroethane	ND		131	ug/kg	05/08/24	05/08/24
Chloroform	ND		131	ug/kg	05/08/24	05/08/24
Chloromethane	ND		131	ug/kg	05/08/24	05/08/24
4-Chlorotoluene	ND		131	ug/kg	05/08/24	05/08/24
2-Chlorotoluene	ND		131	ug/kg	05/08/24	05/08/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		131	ug/kg	05/08/24	05/08/24
Dibromochloromethane	ND		131	ug/kg	05/08/24	05/08/24
1,2-Dibromoethane (EDB)	ND		131	ug/kg	05/08/24	05/08/24
Dibromomethane	ND		131	ug/kg	05/08/24	05/08/24
1,2-Dichlorobenzene	ND		131	ug/kg	05/08/24	05/08/24
1,3-Dichlorobenzene	ND		131	ug/kg	05/08/24	05/08/24
1,4-Dichlorobenzene	ND		131	ug/kg	05/08/24	05/08/24
1,1-Dichloroethane	ND		131	ug/kg	05/08/24	05/08/24
1,2-Dichloroethane	ND		131	ug/kg	05/08/24	05/08/24
trans-1,2-Dichloroethene	ND		131	ug/kg	05/08/24	05/08/24
cis-1,2-Dichloroethene	ND		131	ug/kg	05/08/24	05/08/24
1,1-Dichloroethene	ND		131	ug/kg	05/08/24	05/08/24
1,2-Dichloropropane	ND		131	ug/kg	05/08/24	05/08/24
2,2-Dichloropropane	ND		131	ug/kg	05/08/24	05/08/24
cis-1,3-Dichloropropene	ND		131	ug/kg	05/08/24	05/08/24
trans-1,3-Dichloropropene	ND		131	ug/kg	05/08/24	05/08/24
1,1-Dichloropropene	ND		131	ug/kg	05/08/24	05/08/24
1,3-Dichloropropene (cis + trans)	ND		262	ug/kg	05/08/24	05/08/24
Diethyl ether	ND		655	ug/kg	05/08/24	05/08/24
1,4-Dioxane	ND		13100	ug/kg	05/08/24	05/08/24
Ethylbenzene	931		131	ug/kg	05/08/24	05/08/24
Hexachlorobutadiene	ND		131	ug/kg	05/08/24	05/08/24
2-Hexanone	ND		1310	ug/kg	05/08/24	05/08/24
Isopropylbenzene	325		131	ug/kg	05/08/24	05/08/24
p-Isopropyltoluene	747		131	ug/kg	05/08/24	05/08/24
Methylene Chloride	ND		262	ug/kg	05/08/24	05/08/24

Results: Volatile Organic Compounds 8260C (5035-HL) (Continued)

Sample: HA-1 (Continued)

Lab Number: 4D25008-01 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
4-Methyl-2-pentanone	ND		917	ug/kg	05/08/24	05/08/24
Naphthalene	2300		131	ug/kg	05/08/24	05/08/24
n-Propylbenzene	874		131	ug/kg	05/08/24	05/08/24
Styrene	5330		131	ug/kg	05/08/24	05/08/24
1,1,1,2-Tetrachloroethane	ND		131	ug/kg	05/08/24	05/08/24
Tetrachloroethene	ND		131	ug/kg	05/08/24	05/08/24
Tetrahydrofuran	ND		655	ug/kg	05/08/24	05/08/24
Toluene	2340		131	ug/kg	05/08/24	05/08/24
1,2,4-Trichlorobenzene	ND		131	ug/kg	05/08/24	05/08/24
1,2,3-Trichlorobenzene	ND		131	ug/kg	05/08/24	05/08/24
1,1,2-Trichloroethane	ND		131	ug/kg	05/08/24	05/08/24
1,1,1-Trichloroethane	ND		131	ug/kg	05/08/24	05/08/24
Trichloroethene	ND		131	ug/kg	05/08/24	05/08/24
1,2,3-Trichloropropane	ND		131	ug/kg	05/08/24	05/08/24
1,3,5-Trimethylbenzene	1990		131	ug/kg	05/08/24	05/08/24
1,2,4-Trimethylbenzene	6070		131	ug/kg	05/08/24	05/08/24
Vinyl Chloride	ND		131	ug/kg	05/08/24	05/08/24
o-Xylene	1600		131	ug/kg	05/08/24	05/08/24
m&p-Xylene	3020		262	ug/kg	05/08/24	05/08/24
Total xylenes	4620		131	ug/kg	05/08/24	05/08/24
1,1,2,2-Tetrachloroethane	ND		131	ug/kg	05/08/24	05/08/24
tert-Amyl methyl ether	ND		131	ug/kg	05/08/24	05/08/24
1,3-Dichloropropane	ND		131	ug/kg	05/08/24	05/08/24
Ethyl tert-butyl ether	ND		131	ug/kg	05/08/24	05/08/24
Diisopropyl ether	ND		131	ug/kg	05/08/24	05/08/24
Trichlorofluoromethane	ND		131	ug/kg	05/08/24	05/08/24
Dichlorodifluoromethane	ND		131	ug/kg	05/08/24	05/08/24
1,2 Dichloroethene, Total	ND		131	ug/kg	05/08/24	05/08/24
Surrogate(s)	Recovery%		Limits			
<i>4-Bromofluorobenzene</i>	<i>104%</i>		<i>70-130</i>		05/08/24	05/08/24
<i>1,2-Dichloroethane-d4</i>	<i>103%</i>		<i>70-130</i>		05/08/24	05/08/24
<i>Toluene-d8</i>	<i>95.8%</i>		<i>70-130</i>		05/08/24	05/08/24

Results: Volatile Organic Compounds 8260C (5035-HL)**Sample: HA-2****Lab Number: 4D25008-02 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		5150	ug/kg	05/08/24	05/08/24
Benzene	ND		103	ug/kg	05/08/24	05/08/24
Bromobenzene	ND		103	ug/kg	05/08/24	05/08/24
Bromochloromethane	ND		103	ug/kg	05/08/24	05/08/24
Bromodichloromethane	ND		103	ug/kg	05/08/24	05/08/24
Bromoform	ND		103	ug/kg	05/08/24	05/08/24
Bromomethane	ND		103	ug/kg	05/08/24	05/08/24
2-Butanone	ND		2570	ug/kg	05/08/24	05/08/24
tert-Butyl alcohol	ND		515	ug/kg	05/08/24	05/08/24
sec-Butylbenzene	ND		103	ug/kg	05/08/24	05/08/24
n-Butylbenzene	ND		103	ug/kg	05/08/24	05/08/24
tert-Butylbenzene	ND		103	ug/kg	05/08/24	05/08/24
Methyl t-butyl ether (MTBE)	ND		103	ug/kg	05/08/24	05/08/24
Carbon Disulfide	ND		103	ug/kg	05/08/24	05/08/24
Carbon Tetrachloride	ND		103	ug/kg	05/08/24	05/08/24
Chlorobenzene	ND		103	ug/kg	05/08/24	05/08/24
Chloroethane	ND		103	ug/kg	05/08/24	05/08/24
Chloroform	ND		103	ug/kg	05/08/24	05/08/24
Chloromethane	ND		103	ug/kg	05/08/24	05/08/24
4-Chlorotoluene	ND		103	ug/kg	05/08/24	05/08/24
2-Chlorotoluene	ND		103	ug/kg	05/08/24	05/08/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		103	ug/kg	05/08/24	05/08/24
Dibromochloromethane	ND		103	ug/kg	05/08/24	05/08/24
1,2-Dibromoethane (EDB)	ND		103	ug/kg	05/08/24	05/08/24
Dibromomethane	ND		103	ug/kg	05/08/24	05/08/24
1,2-Dichlorobenzene	ND		103	ug/kg	05/08/24	05/08/24
1,3-Dichlorobenzene	ND		103	ug/kg	05/08/24	05/08/24
1,4-Dichlorobenzene	ND		103	ug/kg	05/08/24	05/08/24
1,1-Dichloroethane	ND		103	ug/kg	05/08/24	05/08/24
1,2-Dichloroethane	ND		103	ug/kg	05/08/24	05/08/24
trans-1,2-Dichloroethene	ND		103	ug/kg	05/08/24	05/08/24
cis-1,2-Dichloroethene	ND		103	ug/kg	05/08/24	05/08/24
1,1-Dichloroethene	ND		103	ug/kg	05/08/24	05/08/24
1,2-Dichloropropane	ND		103	ug/kg	05/08/24	05/08/24
2,2-Dichloropropane	ND		103	ug/kg	05/08/24	05/08/24
cis-1,3-Dichloropropene	ND		103	ug/kg	05/08/24	05/08/24
trans-1,3-Dichloropropene	ND		103	ug/kg	05/08/24	05/08/24
1,1-Dichloropropene	ND		103	ug/kg	05/08/24	05/08/24
1,3-Dichloropropene (cis + trans)	ND		206	ug/kg	05/08/24	05/08/24
Diethyl ether	ND		515	ug/kg	05/08/24	05/08/24
1,4-Dioxane	ND		10300	ug/kg	05/08/24	05/08/24
Ethylbenzene	ND		103	ug/kg	05/08/24	05/08/24
Hexachlorobutadiene	ND		103	ug/kg	05/08/24	05/08/24
2-Hexanone	ND		1030	ug/kg	05/08/24	05/08/24
Isopropylbenzene	ND		103	ug/kg	05/08/24	05/08/24
p-Isopropyltoluene	ND		103	ug/kg	05/08/24	05/08/24
Methylene Chloride	ND		206	ug/kg	05/08/24	05/08/24

Results: Volatile Organic Compounds 8260C (5035-HL) (Continued)

Sample: HA-2 (Continued)

Lab Number: 4D25008-02 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
4-Methyl-2-pentanone	ND		721	ug/kg	05/08/24	05/08/24
Naphthalene	ND		103	ug/kg	05/08/24	05/08/24
n-Propylbenzene	ND		103	ug/kg	05/08/24	05/08/24
Styrene	ND		103	ug/kg	05/08/24	05/08/24
1,1,1,2-Tetrachloroethane	ND		103	ug/kg	05/08/24	05/08/24
Tetrachloroethene	ND		103	ug/kg	05/08/24	05/08/24
Tetrahydrofuran	ND		515	ug/kg	05/08/24	05/08/24
Toluene	ND		103	ug/kg	05/08/24	05/08/24
1,2,4-Trichlorobenzene	ND		103	ug/kg	05/08/24	05/08/24
1,2,3-Trichlorobenzene	ND		103	ug/kg	05/08/24	05/08/24
1,1,2-Trichloroethane	ND		103	ug/kg	05/08/24	05/08/24
1,1,1-Trichloroethane	ND		103	ug/kg	05/08/24	05/08/24
Trichloroethene	ND		103	ug/kg	05/08/24	05/08/24
1,2,3-Trichloropropane	ND		103	ug/kg	05/08/24	05/08/24
1,3,5-Trimethylbenzene	ND		103	ug/kg	05/08/24	05/08/24
1,2,4-Trimethylbenzene	ND		103	ug/kg	05/08/24	05/08/24
Vinyl Chloride	ND		103	ug/kg	05/08/24	05/08/24
o-Xylene	ND		103	ug/kg	05/08/24	05/08/24
m&p-Xylene	ND		206	ug/kg	05/08/24	05/08/24
Total xylenes	ND		103	ug/kg	05/08/24	05/08/24
1,1,2,2-Tetrachloroethane	ND		103	ug/kg	05/08/24	05/08/24
tert-Amyl methyl ether	ND		103	ug/kg	05/08/24	05/08/24
1,3-Dichloropropane	ND		103	ug/kg	05/08/24	05/08/24
Ethyl tert-butyl ether	ND		103	ug/kg	05/08/24	05/08/24
Diisopropyl ether	ND		103	ug/kg	05/08/24	05/08/24
Trichlorofluoromethane	ND		103	ug/kg	05/08/24	05/08/24
Dichlorodifluoromethane	ND		103	ug/kg	05/08/24	05/08/24
1,2 Dichloroethene, Total	ND		103	ug/kg	05/08/24	05/08/24
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Surrogate(s)	Recovery%		Limits			
<i>4-Bromofluorobenzene</i>	<i>94.7%</i>		<i>70-130</i>		05/08/24	05/08/24
<i>1,2-Dichloroethane-d4</i>	<i>104%</i>		<i>70-130</i>		05/08/24	05/08/24
<i>Toluene-d8</i>	<i>105%</i>		<i>70-130</i>		05/08/24	05/08/24

Results: Volatile Organic Compounds 8260C (5035-HL)**Sample: HA-3****Lab Number: 4D25008-03 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		3980	ug/kg	05/08/24	05/08/24
Benzene	ND		80	ug/kg	05/08/24	05/08/24
Bromobenzene	ND		80	ug/kg	05/08/24	05/08/24
Bromochloromethane	ND		80	ug/kg	05/08/24	05/08/24
Bromodichloromethane	ND		80	ug/kg	05/08/24	05/08/24
Bromoform	ND		80	ug/kg	05/08/24	05/08/24
Bromomethane	ND		80	ug/kg	05/08/24	05/08/24
2-Butanone	ND		1990	ug/kg	05/08/24	05/08/24
tert-Butyl alcohol	ND		398	ug/kg	05/08/24	05/08/24
sec-Butylbenzene	ND		80	ug/kg	05/08/24	05/08/24
n-Butylbenzene	ND		80	ug/kg	05/08/24	05/08/24
tert-Butylbenzene	ND		80	ug/kg	05/08/24	05/08/24
Methyl t-butyl ether (MTBE)	ND		80	ug/kg	05/08/24	05/08/24
Carbon Disulfide	ND		80	ug/kg	05/08/24	05/08/24
Carbon Tetrachloride	ND		80	ug/kg	05/08/24	05/08/24
Chlorobenzene	281		80	ug/kg	05/08/24	05/08/24
Chloroethane	ND		80	ug/kg	05/08/24	05/08/24
Chloroform	ND		80	ug/kg	05/08/24	05/08/24
Chloromethane	ND		80	ug/kg	05/08/24	05/08/24
4-Chlorotoluene	ND		80	ug/kg	05/08/24	05/08/24
2-Chlorotoluene	ND		80	ug/kg	05/08/24	05/08/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		80	ug/kg	05/08/24	05/08/24
Dibromochloromethane	ND		80	ug/kg	05/08/24	05/08/24
1,2-Dibromoethane (EDB)	ND		80	ug/kg	05/08/24	05/08/24
Dibromomethane	ND		80	ug/kg	05/08/24	05/08/24
1,2-Dichlorobenzene	ND		80	ug/kg	05/08/24	05/08/24
1,3-Dichlorobenzene	ND		80	ug/kg	05/08/24	05/08/24
1,4-Dichlorobenzene	ND		80	ug/kg	05/08/24	05/08/24
1,1-Dichloroethane	ND		80	ug/kg	05/08/24	05/08/24
1,2-Dichloroethane	ND		80	ug/kg	05/08/24	05/08/24
trans-1,2-Dichloroethene	ND		80	ug/kg	05/08/24	05/08/24
cis-1,2-Dichloroethene	ND		80	ug/kg	05/08/24	05/08/24
1,1-Dichloroethene	ND		80	ug/kg	05/08/24	05/08/24
1,2-Dichloropropane	ND		80	ug/kg	05/08/24	05/08/24
2,2-Dichloropropane	ND		80	ug/kg	05/08/24	05/08/24
cis-1,3-Dichloropropene	ND		80	ug/kg	05/08/24	05/08/24
trans-1,3-Dichloropropene	ND		80	ug/kg	05/08/24	05/08/24
1,1-Dichloropropene	ND		80	ug/kg	05/08/24	05/08/24
1,3-Dichloropropene (cis + trans)	ND		159	ug/kg	05/08/24	05/08/24
Diethyl ether	ND		398	ug/kg	05/08/24	05/08/24
1,4-Dioxane	ND		7950	ug/kg	05/08/24	05/08/24
Ethylbenzene	310		80	ug/kg	05/08/24	05/08/24
Hexachlorobutadiene	ND		80	ug/kg	05/08/24	05/08/24
2-Hexanone	ND		795	ug/kg	05/08/24	05/08/24
Isopropylbenzene	ND		80	ug/kg	05/08/24	05/08/24
p-Isopropyltoluene	123		80	ug/kg	05/08/24	05/08/24
Methylene Chloride	ND		159	ug/kg	05/08/24	05/08/24

Results: Volatile Organic Compounds 8260C (5035-HL) (Continued)

Sample: HA-3 (Continued)

Lab Number: 4D25008-03 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
4-Methyl-2-pentanone	ND		557	ug/kg	05/08/24	05/08/24
Naphthalene	711		80	ug/kg	05/08/24	05/08/24
n-Propylbenzene	111		80	ug/kg	05/08/24	05/08/24
Styrene	858		80	ug/kg	05/08/24	05/08/24
1,1,1,2-Tetrachloroethane	ND		80	ug/kg	05/08/24	05/08/24
Tetrachloroethene	ND		80	ug/kg	05/08/24	05/08/24
Tetrahydrofuran	ND		398	ug/kg	05/08/24	05/08/24
Toluene	554		80	ug/kg	05/08/24	05/08/24
1,2,4-Trichlorobenzene	ND		80	ug/kg	05/08/24	05/08/24
1,2,3-Trichlorobenzene	ND		80	ug/kg	05/08/24	05/08/24
1,1,2-Trichloroethane	ND		80	ug/kg	05/08/24	05/08/24
1,1,1-Trichloroethane	ND		80	ug/kg	05/08/24	05/08/24
Trichloroethene	ND		80	ug/kg	05/08/24	05/08/24
1,2,3-Trichloropropane	ND		80	ug/kg	05/08/24	05/08/24
1,3,5-Trimethylbenzene	307		80	ug/kg	05/08/24	05/08/24
1,2,4-Trimethylbenzene	572		80	ug/kg	05/08/24	05/08/24
Vinyl Chloride	ND		80	ug/kg	05/08/24	05/08/24
o-Xylene	456		80	ug/kg	05/08/24	05/08/24
m&p-Xylene	869		159	ug/kg	05/08/24	05/08/24
Total xylenes	1320		80	ug/kg	05/08/24	05/08/24
1,1,2,2-Tetrachloroethane	ND		80	ug/kg	05/08/24	05/08/24
tert-Amyl methyl ether	ND		80	ug/kg	05/08/24	05/08/24
1,3-Dichloropropane	ND		80	ug/kg	05/08/24	05/08/24
Ethyl tert-butyl ether	ND		80	ug/kg	05/08/24	05/08/24
Diisopropyl ether	ND		80	ug/kg	05/08/24	05/08/24
Trichlorofluoromethane	4160		80	ug/kg	05/08/24	05/08/24
Dichlorodifluoromethane	ND		80	ug/kg	05/08/24	05/08/24
1,2 Dichloroethene, Total	ND		80	ug/kg	05/08/24	05/08/24
Surrogate(s)	Recovery%		Limits			
<i>4-Bromofluorobenzene</i>	<i>94.8%</i>		<i>70-130</i>		05/08/24	05/08/24
<i>1,2-Dichloroethane-d4</i>	<i>102%</i>		<i>70-130</i>		05/08/24	05/08/24
<i>Toluene-d8</i>	<i>94.4%</i>		<i>70-130</i>		05/08/24	05/08/24

Results: Volatile Organic Compounds 8260C (5035-HL)**Sample: HA-4****Lab Number: 4D25008-04 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		3310	ug/kg	05/08/24	05/08/24
Benzene	ND		66	ug/kg	05/08/24	05/08/24
Bromobenzene	ND		66	ug/kg	05/08/24	05/08/24
Bromochloromethane	ND		66	ug/kg	05/08/24	05/08/24
Bromodichloromethane	ND		66	ug/kg	05/08/24	05/08/24
Bromoform	ND		66	ug/kg	05/08/24	05/08/24
Bromomethane	ND		66	ug/kg	05/08/24	05/08/24
2-Butanone	ND		1650	ug/kg	05/08/24	05/08/24
tert-Butyl alcohol	ND		331	ug/kg	05/08/24	05/08/24
sec-Butylbenzene	ND		66	ug/kg	05/08/24	05/08/24
n-Butylbenzene	ND		66	ug/kg	05/08/24	05/08/24
tert-Butylbenzene	ND		66	ug/kg	05/08/24	05/08/24
Methyl t-butyl ether (MTBE)	ND		66	ug/kg	05/08/24	05/08/24
Carbon Disulfide	ND		66	ug/kg	05/08/24	05/08/24
Carbon Tetrachloride	ND		66	ug/kg	05/08/24	05/08/24
Chlorobenzene	ND		66	ug/kg	05/08/24	05/08/24
Chloroethane	ND		66	ug/kg	05/08/24	05/08/24
Chloroform	ND		66	ug/kg	05/08/24	05/08/24
Chloromethane	ND		66	ug/kg	05/08/24	05/08/24
4-Chlorotoluene	ND		66	ug/kg	05/08/24	05/08/24
2-Chlorotoluene	ND		66	ug/kg	05/08/24	05/08/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		66	ug/kg	05/08/24	05/08/24
Dibromochloromethane	ND		66	ug/kg	05/08/24	05/08/24
1,2-Dibromoethane (EDB)	ND		66	ug/kg	05/08/24	05/08/24
Dibromomethane	ND		66	ug/kg	05/08/24	05/08/24
1,2-Dichlorobenzene	ND		66	ug/kg	05/08/24	05/08/24
1,3-Dichlorobenzene	ND		66	ug/kg	05/08/24	05/08/24
1,4-Dichlorobenzene	ND		66	ug/kg	05/08/24	05/08/24
1,1-Dichloroethane	ND		66	ug/kg	05/08/24	05/08/24
1,2-Dichloroethane	ND		66	ug/kg	05/08/24	05/08/24
trans-1,2-Dichloroethene	ND		66	ug/kg	05/08/24	05/08/24
cis-1,2-Dichloroethene	ND		66	ug/kg	05/08/24	05/08/24
1,1-Dichloroethene	ND		66	ug/kg	05/08/24	05/08/24
1,2-Dichloropropane	ND		66	ug/kg	05/08/24	05/08/24
2,2-Dichloropropane	ND		66	ug/kg	05/08/24	05/08/24
cis-1,3-Dichloropropene	ND		66	ug/kg	05/08/24	05/08/24
trans-1,3-Dichloropropene	ND		66	ug/kg	05/08/24	05/08/24
1,1-Dichloropropene	ND		66	ug/kg	05/08/24	05/08/24
1,3-Dichloropropene (cis + trans)	ND		132	ug/kg	05/08/24	05/08/24
Diethyl ether	ND		331	ug/kg	05/08/24	05/08/24
1,4-Dioxane	ND		6620	ug/kg	05/08/24	05/08/24
Ethylbenzene	140		66	ug/kg	05/08/24	05/08/24
Hexachlorobutadiene	ND		66	ug/kg	05/08/24	05/08/24
2-Hexanone	ND		662	ug/kg	05/08/24	05/08/24
Isopropylbenzene	ND		66	ug/kg	05/08/24	05/08/24
p-Isopropyltoluene	ND		66	ug/kg	05/08/24	05/08/24
Methylene Chloride	ND		132	ug/kg	05/08/24	05/08/24

Results: Volatile Organic Compounds 8260C (5035-HL) (Continued)

Sample: HA-4 (Continued)

Lab Number: 4D25008-04 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
4-Methyl-2-pentanone	ND		463	ug/kg	05/08/24	05/08/24
Naphthalene	ND		66	ug/kg	05/08/24	05/08/24
n-Propylbenzene	ND		66	ug/kg	05/08/24	05/08/24
Styrene	ND		66	ug/kg	05/08/24	05/08/24
1,1,1,2-Tetrachloroethane	ND		66	ug/kg	05/08/24	05/08/24
Tetrachloroethene	ND		66	ug/kg	05/08/24	05/08/24
Tetrahydrofuran	ND		331	ug/kg	05/08/24	05/08/24
Toluene	72		66	ug/kg	05/08/24	05/08/24
1,2,4-Trichlorobenzene	ND		66	ug/kg	05/08/24	05/08/24
1,2,3-Trichlorobenzene	ND		66	ug/kg	05/08/24	05/08/24
1,1,2-Trichloroethane	ND		66	ug/kg	05/08/24	05/08/24
1,1,1-Trichloroethane	ND		66	ug/kg	05/08/24	05/08/24
Trichloroethene	ND		66	ug/kg	05/08/24	05/08/24
1,2,3-Trichloropropane	ND		66	ug/kg	05/08/24	05/08/24
1,3,5-Trimethylbenzene	ND		66	ug/kg	05/08/24	05/08/24
1,2,4-Trimethylbenzene	ND		66	ug/kg	05/08/24	05/08/24
Vinyl Chloride	ND		66	ug/kg	05/08/24	05/08/24
o-Xylene	ND		66	ug/kg	05/08/24	05/08/24
m&p-Xylene	ND		132	ug/kg	05/08/24	05/08/24
Total xylenes	ND		132	ug/kg	05/08/24	05/08/24
1,1,2,2-Tetrachloroethane	ND		66	ug/kg	05/08/24	05/08/24
tert-Amyl methyl ether	ND		66	ug/kg	05/08/24	05/08/24
1,3-Dichloropropane	ND		66	ug/kg	05/08/24	05/08/24
Ethyl tert-butyl ether	ND		66	ug/kg	05/08/24	05/08/24
Diisopropyl ether	ND		66	ug/kg	05/08/24	05/08/24
Trichlorofluoromethane	ND		66	ug/kg	05/08/24	05/08/24
Dichlorodifluoromethane	ND		66	ug/kg	05/08/24	05/08/24
1,2 Dichloroethene, Total	ND		66	ug/kg	05/08/24	05/08/24
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Surrogate(s)	Recovery%		Limits			
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4-Bromofluorobenzene	111%		70-130		05/08/24	05/08/24
1,2-Dichloroethane-d4	103%		70-130		05/08/24	05/08/24
Toluene-d8	93.5%		70-130		05/08/24	05/08/24

Results: Volatile Organic Compounds 8260C (5035-HL)

Sample: HA-5

Lab Number: 4D25008-05 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		4720	ug/kg	05/08/24	05/08/24
Benzene	ND		94	ug/kg	05/08/24	05/08/24
Bromobenzene	ND		94	ug/kg	05/08/24	05/08/24
Bromochloromethane	ND		94	ug/kg	05/08/24	05/08/24
Bromodichloromethane	ND		94	ug/kg	05/08/24	05/08/24
Bromoform	ND		94	ug/kg	05/08/24	05/08/24
Bromomethane	ND		94	ug/kg	05/08/24	05/08/24
2-Butanone	ND		2360	ug/kg	05/08/24	05/08/24
tert-Butyl alcohol	ND		472	ug/kg	05/08/24	05/08/24
sec-Butylbenzene	ND		94	ug/kg	05/08/24	05/08/24
n-Butylbenzene	ND		94	ug/kg	05/08/24	05/08/24
tert-Butylbenzene	ND		94	ug/kg	05/08/24	05/08/24
Methyl t-butyl ether (MTBE)	ND		94	ug/kg	05/08/24	05/08/24
Carbon Disulfide	ND		94	ug/kg	05/08/24	05/08/24
Carbon Tetrachloride	ND		94	ug/kg	05/08/24	05/08/24
Chlorobenzene	ND		94	ug/kg	05/08/24	05/08/24
Chloroethane	ND		94	ug/kg	05/08/24	05/08/24
Chloroform	ND		94	ug/kg	05/08/24	05/08/24
Chloromethane	ND		94	ug/kg	05/08/24	05/08/24
4-Chlorotoluene	ND		94	ug/kg	05/08/24	05/08/24
2-Chlorotoluene	ND		94	ug/kg	05/08/24	05/08/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		94	ug/kg	05/08/24	05/08/24
Dibromochloromethane	ND		94	ug/kg	05/08/24	05/08/24
1,2-Dibromoethane (EDB)	ND		94	ug/kg	05/08/24	05/08/24
Dibromomethane	ND		94	ug/kg	05/08/24	05/08/24
1,2-Dichlorobenzene	ND		94	ug/kg	05/08/24	05/08/24
1,3-Dichlorobenzene	ND		94	ug/kg	05/08/24	05/08/24
1,4-Dichlorobenzene	ND		94	ug/kg	05/08/24	05/08/24
1,1-Dichloroethane	ND		94	ug/kg	05/08/24	05/08/24
1,2-Dichloroethane	ND		94	ug/kg	05/08/24	05/08/24
trans-1,2-Dichloroethene	ND		94	ug/kg	05/08/24	05/08/24
cis-1,2-Dichloroethene	ND		94	ug/kg	05/08/24	05/08/24
1,1-Dichloroethene	ND		94	ug/kg	05/08/24	05/08/24
1,2-Dichloropropane	ND		94	ug/kg	05/08/24	05/08/24
2,2-Dichloropropane	ND		94	ug/kg	05/08/24	05/08/24
cis-1,3-Dichloropropene	ND		94	ug/kg	05/08/24	05/08/24
trans-1,3-Dichloropropene	ND		94	ug/kg	05/08/24	05/08/24
1,1-Dichloropropene	ND		94	ug/kg	05/08/24	05/08/24
1,3-Dichloropropene (cis + trans)	ND		189	ug/kg	05/08/24	05/08/24
Diethyl ether	ND		472	ug/kg	05/08/24	05/08/24
1,4-Dioxane	ND		9440	ug/kg	05/08/24	05/08/24
Ethylbenzene	169		94	ug/kg	05/08/24	05/08/24
Hexachlorobutadiene	ND		94	ug/kg	05/08/24	05/08/24
2-Hexanone	ND		944	ug/kg	05/08/24	05/08/24
Isopropylbenzene	ND		94	ug/kg	05/08/24	05/08/24
p-Isopropyltoluene	ND		94	ug/kg	05/08/24	05/08/24
Methylene Chloride	ND		189	ug/kg	05/08/24	05/08/24

Results: Volatile Organic Compounds 8260C (5035-HL) (Continued)

Sample: HA-5 (Continued)

Lab Number: 4D25008-05 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
4-Methyl-2-pentanone	ND		660	ug/kg	05/08/24	05/08/24
Naphthalene	ND		94	ug/kg	05/08/24	05/08/24
n-Propylbenzene	ND		94	ug/kg	05/08/24	05/08/24
Styrene	ND		94	ug/kg	05/08/24	05/08/24
1,1,1,2-Tetrachloroethane	ND		94	ug/kg	05/08/24	05/08/24
Tetrachloroethene	ND		94	ug/kg	05/08/24	05/08/24
Tetrahydrofuran	ND		472	ug/kg	05/08/24	05/08/24
Toluene	262		94	ug/kg	05/08/24	05/08/24
1,2,4-Trichlorobenzene	ND		94	ug/kg	05/08/24	05/08/24
1,2,3-Trichlorobenzene	ND		94	ug/kg	05/08/24	05/08/24
1,1,2-Trichloroethane	ND		94	ug/kg	05/08/24	05/08/24
1,1,1-Trichloroethane	ND		94	ug/kg	05/08/24	05/08/24
Trichloroethene	ND		94	ug/kg	05/08/24	05/08/24
1,2,3-Trichloropropane	ND		94	ug/kg	05/08/24	05/08/24
1,3,5-Trimethylbenzene	ND		94	ug/kg	05/08/24	05/08/24
1,2,4-Trimethylbenzene	ND		94	ug/kg	05/08/24	05/08/24
Vinyl Chloride	ND		94	ug/kg	05/08/24	05/08/24
o-Xylene	176		94	ug/kg	05/08/24	05/08/24
m&p-Xylene	333		189	ug/kg	05/08/24	05/08/24
Total xylenes	510		94	ug/kg	05/08/24	05/08/24
1,1,2,2-Tetrachloroethane	ND		94	ug/kg	05/08/24	05/08/24
tert-Amyl methyl ether	ND		94	ug/kg	05/08/24	05/08/24
1,3-Dichloropropane	ND		94	ug/kg	05/08/24	05/08/24
Ethyl tert-butyl ether	ND		94	ug/kg	05/08/24	05/08/24
Diisopropyl ether	ND		94	ug/kg	05/08/24	05/08/24
Trichlorofluoromethane	ND		94	ug/kg	05/08/24	05/08/24
Dichlorodifluoromethane	ND		94	ug/kg	05/08/24	05/08/24
1,2 Dichloroethene, Total	ND		94	ug/kg	05/08/24	05/08/24

Surrogate(s)	Recovery%	Limits	Date Prepared	Date Analyzed
<i>4-Bromofluorobenzene</i>	<i>106%</i>	<i>70-130</i>	05/08/24	05/08/24
<i>1,2-Dichloroethane-d4</i>	<i>96.4%</i>	<i>70-130</i>	05/08/24	05/08/24
<i>Toluene-d8</i>	<i>95.3%</i>	<i>70-130</i>	05/08/24	05/08/24

Results: Semivolatile organic compounds (PAH only)

Sample: HA-1

Lab Number: 4D25008-01 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
2-Methylnaphthalene	1270		753	ug/kg	04/26/24	04/29/24
Acenaphthene	ND		753	ug/kg	04/26/24	04/29/24
Acenaphthylene	ND		753	ug/kg	04/26/24	04/29/24
Anthracene	757		753	ug/kg	04/26/24	04/29/24
Benzo(a)anthracene	1810		753	ug/kg	04/26/24	04/29/24
Benzo(a)pyrene	1910		753	ug/kg	04/26/24	04/29/24
Benzo(b)fluoranthene	2680		753	ug/kg	04/26/24	04/29/24
Benzo(g,h,i)perylene	1580		753	ug/kg	04/26/24	04/29/24
Benzo(k)fluoranthene	757		753	ug/kg	04/26/24	04/29/24
Chrysene	2060		753	ug/kg	04/26/24	04/29/24
Dibenz(a,h)anthracene	ND		753	ug/kg	04/26/24	04/29/24
Dibenzofuran	ND		753	ug/kg	04/26/24	04/29/24
Fluoranthene	3990		753	ug/kg	04/26/24	04/29/24
Fluorene	ND		753	ug/kg	04/26/24	04/29/24
Indeno(1,2,3-cd)pyrene	1610		753	ug/kg	04/26/24	04/29/24
Naphthalene	ND		753	ug/kg	04/26/24	04/29/24
Phenanthrene	2950		753	ug/kg	04/26/24	04/29/24
Pyrene	4470		753	ug/kg	04/26/24	04/29/24
Surrogate(s)	Recovery%		Limits			
<i>Nitrobenzene-d5</i>	66.4%		30-126		04/26/24	04/29/24
<i>p-Terphenyl-d14</i>	108%		47-130		04/26/24	04/29/24
<i>2-Fluorobiphenyl</i>	80.1%		34-130		04/26/24	04/29/24

Results: Semivolatile organic compounds (PAH only)

Sample: HA-2

Lab Number: 4D25008-02 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
2-Methylnaphthalene	ND		713	ug/kg	04/26/24	04/29/24
Acenaphthene	ND		713	ug/kg	04/26/24	04/29/24
Acenaphthylene	ND		713	ug/kg	04/26/24	04/29/24
Anthracene	ND		713	ug/kg	04/26/24	04/29/24
Benzo(a)anthracene	ND		713	ug/kg	04/26/24	04/29/24
Benzo(a)pyrene	757		713	ug/kg	04/26/24	04/29/24
Benzo(b)fluoranthene	1140		713	ug/kg	04/26/24	04/29/24
Benzo(g,h,i)perylene	735		713	ug/kg	04/26/24	04/29/24
Benzo(k)fluoranthene	ND		713	ug/kg	04/26/24	04/29/24
Chrysene	724		713	ug/kg	04/26/24	04/29/24
Dibenz(a,h)anthracene	ND		713	ug/kg	04/26/24	04/29/24
Dibenzofuran	ND		713	ug/kg	04/26/24	04/29/24
Fluoranthene	940		713	ug/kg	04/26/24	04/29/24
Fluorene	ND		713	ug/kg	04/26/24	04/29/24
Indeno(1,2,3-cd)pyrene	ND		713	ug/kg	04/26/24	04/29/24
Naphthalene	ND		713	ug/kg	04/26/24	04/29/24
Phenanthrene	ND		713	ug/kg	04/26/24	04/29/24
Pyrene	1330		713	ug/kg	04/26/24	04/29/24
Surrogate(s)	Recovery%		Limits			
<i>Nitrobenzene-d5</i>	58.4%		30-126		04/26/24	04/29/24
<i>p-Terphenyl-d14</i>	87.2%		47-130		04/26/24	04/29/24
<i>2-Fluorobiphenyl</i>	65.6%		34-130		04/26/24	04/29/24

Results: Semivolatile organic compounds (PAH only)

Sample: HA-3

Lab Number: 4D25008-03 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
2-Methylnaphthalene	ND		810	ug/kg	04/26/24	04/29/24
Acenaphthene	ND		810	ug/kg	04/26/24	04/29/24
Acenaphthylene	ND		810	ug/kg	04/26/24	04/29/24
Anthracene	ND		810	ug/kg	04/26/24	04/29/24
Benzo(a)anthracene	2150		810	ug/kg	04/26/24	04/29/24
Benzo(a)pyrene	2370		810	ug/kg	04/26/24	04/29/24
Benzo(b)fluoranthene	3030		810	ug/kg	04/26/24	04/29/24
Benzo(g,h,i)perylene	1570		810	ug/kg	04/26/24	04/29/24
Benzo(k)fluoranthene	1190		810	ug/kg	04/26/24	04/29/24
Chrysene	2460		810	ug/kg	04/26/24	04/29/24
Dibenz(a,h)anthracene	ND		810	ug/kg	04/26/24	04/29/24
Dibenzofuran	ND		810	ug/kg	04/26/24	04/29/24
Fluoranthene	4410		810	ug/kg	04/26/24	04/29/24
Fluorene	ND		810	ug/kg	04/26/24	04/29/24
Indeno(1,2,3-cd)pyrene	1660		810	ug/kg	04/26/24	04/29/24
Naphthalene	ND		810	ug/kg	04/26/24	04/29/24
Phenanthrene	2960		810	ug/kg	04/26/24	04/29/24
Pyrene	4420		810	ug/kg	04/26/24	04/29/24
Surrogate(s)	Recovery%		Limits			
<i>Nitrobenzene-d5</i>	70.9%		30-126		04/26/24	04/29/24
<i>p-Terphenyl-d14</i>	108%		47-130		04/26/24	04/29/24
<i>2-Fluorobiphenyl</i>	79.7%		34-130		04/26/24	04/29/24

Results: Semivolatile organic compounds (PAH only)

Sample: HA-4

Lab Number: 4D25008-04 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
2-Methylnaphthalene	ND		702	ug/kg	04/26/24	04/29/24
Acenaphthene	ND		702	ug/kg	04/26/24	04/29/24
Acenaphthylene	ND		702	ug/kg	04/26/24	04/29/24
Anthracene	ND		702	ug/kg	04/26/24	04/29/24
Benzo(a)anthracene	1700		702	ug/kg	04/26/24	04/29/24
Benzo(a)pyrene	2180		702	ug/kg	04/26/24	04/29/24
Benzo(b)fluoranthene	2940		702	ug/kg	04/26/24	04/29/24
Benzo(g,h,i)perylene	1520		702	ug/kg	04/26/24	04/29/24
Benzo(k)fluoranthene	1090		702	ug/kg	04/26/24	04/29/24
Chrysene	1930		702	ug/kg	04/26/24	04/29/24
Dibenz(a,h)anthracene	ND		702	ug/kg	04/26/24	04/29/24
Dibenzofuran	ND		702	ug/kg	04/26/24	04/29/24
Fluoranthene	2590		702	ug/kg	04/26/24	04/29/24
Fluorene	ND		702	ug/kg	04/26/24	04/29/24
Indeno(1,2,3-cd)pyrene	1530		702	ug/kg	04/26/24	04/29/24
Naphthalene	ND		702	ug/kg	04/26/24	04/29/24
Phenanthrene	1370		702	ug/kg	04/26/24	04/29/24
Pyrene	2830		702	ug/kg	04/26/24	04/29/24
Surrogate(s)	Recovery%		Limits			
<i>Nitrobenzene-d5</i>	72.1%		30-126		04/26/24	04/29/24
<i>p-Terphenyl-d14</i>	111%		47-130		04/26/24	04/29/24
<i>2-Fluorobiphenyl</i>	93.4%		34-130		04/26/24	04/29/24

Results: Semivolatile organic compounds (PAH only)**Sample: HA-5****Lab Number: 4D25008-05 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
2-Methylnaphthalene	ND		725	ug/kg	04/26/24	04/29/24
Acenaphthene	ND		725	ug/kg	04/26/24	04/29/24
Acenaphthylene	ND		725	ug/kg	04/26/24	04/29/24
Anthracene	ND		725	ug/kg	04/26/24	04/29/24
Benzo(a)anthracene	1120		725	ug/kg	04/26/24	04/29/24
Benzo(a)pyrene	1530		725	ug/kg	04/26/24	04/29/24
Benzo(b)fluoranthene	1840		725	ug/kg	04/26/24	04/29/24
Benzo(g,h,i)perylene	1400		725	ug/kg	04/26/24	04/29/24
Benzo(k)fluoranthene	ND		725	ug/kg	04/26/24	04/29/24
Chrysene	1180		725	ug/kg	04/26/24	04/29/24
Dibenz(a,h)anthracene	ND		725	ug/kg	04/26/24	04/29/24
Dibenzofuran	ND		725	ug/kg	04/26/24	04/29/24
Fluoranthene	1800		725	ug/kg	04/26/24	04/29/24
Fluorene	ND		725	ug/kg	04/26/24	04/29/24
Indeno(1,2,3-cd)pyrene	1190		725	ug/kg	04/26/24	04/29/24
Naphthalene	ND		725	ug/kg	04/26/24	04/29/24
Phenanthrene	892		725	ug/kg	04/26/24	04/29/24
Pyrene	2290		725	ug/kg	04/26/24	04/29/24
Surrogate(s)	Recovery%		Limits			
<i>Nitrobenzene-d5</i>	67.9%		30-126		04/26/24	04/29/24
<i>p-Terphenyl-d14</i>	107%		47-130		04/26/24	04/29/24
<i>2-Fluorobiphenyl</i>	88.9%		34-130		04/26/24	04/29/24

Results: Total Petroleum Hydrocarbons**Sample: HA-1****Lab Number: 4D25008-01 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Total Petroleum Hydrocarbons	1400		307	mg/kg	05/08/24	05/09/24
Surrogate(s)	Recovery%		Limits			
<i>Chlorooctadecane</i>	52.2%		50-130		05/08/24	05/09/24

Results: Total Petroleum Hydrocarbons**Sample: HA-2****Lab Number: 4D25008-02 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Total Petroleum Hydrocarbons	1370		291	mg/kg	05/08/24	05/09/24
Surrogate(s)	Recovery%		Limits			
<i>Chlorooctadecane</i>	<i>54.6%</i>		<i>50-130</i>		05/08/24	05/09/24

Results: Total Petroleum Hydrocarbons**Sample: HA-3****Lab Number: 4D25008-03 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Total Petroleum Hydrocarbons	1270		332	mg/kg	05/08/24	05/09/24
Surrogate(s)	Recovery%		Limits			
<i>Chlorooctadecane</i>	<i>50.9%</i>		<i>50-130</i>		05/08/24	05/09/24

Results: Total Petroleum Hydrocarbons**Sample: HA-4****Lab Number: 4D25008-04 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Total Petroleum Hydrocarbons	1510		278	mg/kg	05/08/24	05/09/24
Surrogate(s)	Recovery%		Limits			
<i>Chlorooctadecane</i>	<i>50.2%</i>		<i>50-130</i>		05/08/24	05/09/24

Results: Total Petroleum Hydrocarbons**Sample: HA-5****Lab Number: 4D25008-05 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Total Petroleum Hydrocarbons	1220		292	mg/kg	05/08/24	05/09/24
Surrogate(s)	Recovery%		Limits			
<i>Chlorooctadecane</i>	<i>50.8%</i>		<i>50-130</i>		05/08/24	05/09/24

Quality Control

Volatile Organic Compounds 8260C (5035-HL)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4E0374 - Purge-Trap										
Blank (B4E0374-BLK1)					Prepared & Analyzed: 05/08/24					
Acetone	ND		2500	ug/kg						
Benzene	ND		50	ug/kg						
Bromobenzene	ND		50	ug/kg						
Bromochloromethane	ND		50	ug/kg						
Bromodichloromethane	ND		50	ug/kg						
Bromoform	ND		50	ug/kg						
Bromomethane	ND		50	ug/kg						
2-Butanone	ND		1250	ug/kg						
tert-Butyl alcohol	ND		250	ug/kg						
sec-Butylbenzene	ND		50	ug/kg						
n-Butylbenzene	ND		50	ug/kg						
tert-Butylbenzene	ND		50	ug/kg						
Methyl t-butyl ether (MTBE)	ND		50	ug/kg						
Carbon Disulfide	ND		50	ug/kg						
Carbon Tetrachloride	ND		50	ug/kg						
Chlorobenzene	ND		50	ug/kg						
Chloroethane	ND		50	ug/kg						
Chloroform	ND		50	ug/kg						
Chloromethane	ND		50	ug/kg						
4-Chlorotoluene	ND		50	ug/kg						
2-Chlorotoluene	ND		50	ug/kg						
1,2-Dibromo-3-chloropropane (DBCP)	ND		50	ug/kg						
Dibromochloromethane	ND		50	ug/kg						
1,2-Dibromoethane (EDB)	ND		50	ug/kg						
Dibromomethane	ND		50	ug/kg						
1,2-Dichlorobenzene	ND		50	ug/kg						
1,3-Dichlorobenzene	ND		50	ug/kg						
1,4-Dichlorobenzene	ND		50	ug/kg						
1,1-Dichloroethane	ND		50	ug/kg						
1,2-Dichloroethane	ND		50	ug/kg						
trans-1,2-Dichloroethene	ND		50	ug/kg						
cis-1,2-Dichloroethene	ND		50	ug/kg						
1,1-Dichloroethene	ND		50	ug/kg						
1,2-Dichloropropane	ND		50	ug/kg						
2,2-Dichloropropane	ND		50	ug/kg						
cis-1,3-Dichloropropene	ND		50	ug/kg						
trans-1,3-Dichloropropene	ND		50	ug/kg						
1,1-Dichloropropene	ND		50	ug/kg						
1,3-Dichloropropene (cis + trans)	ND		100	ug/kg						
Diethyl ether	ND		250	ug/kg						
1,4-Dioxane	ND		5000	ug/kg						
Ethylbenzene	ND		50	ug/kg						
Hexachlorobutadiene	ND		50	ug/kg						
2-Hexanone	ND		500	ug/kg						
Isopropylbenzene	ND		50	ug/kg						
p-Isopropyltoluene	ND		50	ug/kg						
Methylene Chloride	ND		100	ug/kg						
4-Methyl-2-pentanone	ND		350	ug/kg						
Naphthalene	ND		50	ug/kg						
n-Propylbenzene	ND		50	ug/kg						
Styrene	ND		50	ug/kg						
1,1,1,2-Tetrachloroethane	ND		50	ug/kg						
Tetrachloroethene	ND		50	ug/kg						
Tetrahydrofuran	ND		250	ug/kg						

Quality Control
(Continued)

Volatile Organic Compounds 8260C (5035-HL) (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4E0374 - Purge-Trap (Continued)										
Blank (B4E0374-BLK1)					Prepared & Analyzed: 05/08/24					
Toluene	ND		50	ug/kg						
1,2,4-Trichlorobenzene	ND		50	ug/kg						
1,2,3-Trichlorobenzene	ND		50	ug/kg						
1,1,2-Trichloroethane	ND		50	ug/kg						
1,1,1-Trichloroethane	ND		50	ug/kg						
Trichloroethene	ND		50	ug/kg						
1,2,3-Trichloropropane	ND		50	ug/kg						
1,3,5-Trimethylbenzene	ND		50	ug/kg						
1,2,4-Trimethylbenzene	ND		50	ug/kg						
Vinyl Chloride	ND		50	ug/kg						
o-Xylene	ND		50	ug/kg						
m&p-Xylene	ND		100	ug/kg						
Total xylenes	ND		50	ug/kg						
1,1,2,2-Tetrachloroethane	ND		50	ug/kg						
tert-Amyl methyl ether	ND		50	ug/kg						
1,3-Dichloropropane	ND		50	ug/kg						
Ethyl tert-butyl ether	ND		50	ug/kg						
Diisopropyl ether	ND		50	ug/kg						
Trichlorofluoromethane	ND		50	ug/kg						
Dichlorodifluoromethane	ND		50	ug/kg						
1,2 Dichloroethene, Total	ND		50	ug/kg						
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<i>Surrogate: 4-Bromofluorobenzene</i>			49.3	ug/l	50.0		98.7	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>			48.8	ug/l	50.0		97.6	70-130		
<i>Surrogate: Toluene-d8</i>			45.2	ug/l	50.0		90.4	70-130		
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LCS (B4E0374-BS1)					Prepared & Analyzed: 05/08/24					
Acetone	1360		250	ug/kg	2500		54.4	50-150		
Benzene	2440		50	ug/kg	2500		97.8	70-130		
Bromobenzene	2180		50	ug/kg	2500		87.1	70-130		
Bromochloromethane	2280		50	ug/kg	2500		91.0	70-130		
Bromodichloromethane	2460		50	ug/kg	2500		98.5	70-130		
Bromoform	2290		50	ug/kg	2500		91.5	70-130		
Bromomethane	1920		50	ug/kg	2500		76.8	50-150		
2-Butanone	2010		1250	ug/kg	2500		80.5	50-150		
tert-Butyl alcohol	2120		250	ug/kg	2500		84.7	70-130		
sec-Butylbenzene	2280		50	ug/kg	2500		91.1	70-130		
n-Butylbenzene	2330		50	ug/kg	2500		93.4	70-130		
tert-Butylbenzene	2220		50	ug/kg	2500		89.0	70-130		
Methyl t-butyl ether (MTBE)	2470		50	ug/kg	2500		98.8	70-130		
Carbon Disulfide	2240		50	ug/kg	2500		89.5	70-130		
Carbon Tetrachloride	2530		50	ug/kg	2500		101	70-130		
Chlorobenzene	2190		50	ug/kg	2500		87.4	70-130		
Chloroethane	2260		50	ug/kg	2500		90.6	50-150		
Chloroform	2540		50	ug/kg	2500		102	70-130		
Chloromethane	2480		50	ug/kg	2500		99.2	50-150		
4-Chlorotoluene	2210		50	ug/kg	2500		88.6	70-130		
2-Chlorotoluene	2070		50	ug/kg	2500		83.0	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	2080		50	ug/kg	2500		83.3	70-130		
Dibromochloromethane	2410		50	ug/kg	2500		96.5	70-130		
1,2-Dibromoethane (EDB)	2300		50	ug/kg	2500		91.8	70-130		
Dibromomethane	2460		50	ug/kg	2500		98.4	70-130		
1,2-Dichlorobenzene	2130		50	ug/kg	2500		85.3	70-130		
1,3-Dichlorobenzene	2270		50	ug/kg	2500		90.7	70-130		
1,4-Dichlorobenzene	2470		50	ug/kg	2500		98.7	70-130		
1,1-Dichloroethane	2460		50	ug/kg	2500		98.5	70-130		
1,2-Dichloroethane	2500		50	ug/kg	2500		99.9	70-130		
trans-1,2-Dichloroethene	2410		50	ug/kg	2500		96.6	70-130		

Quality Control
(Continued)

Volatile Organic Compounds 8260C (5035-HL) (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4E0374 - Purge-Trap (Continued)										
LCS (B4E0374-BS1)					Prepared & Analyzed: 05/08/24					
cis-1,2-Dichloroethene	2370		50	ug/kg	2500		94.6	70-130		
1,1-Dichloroethene	2200		50	ug/kg	2500		88.0	70-130		
1,2-Dichloropropane	2170		50	ug/kg	2500		86.7	70-130		
2,2-Dichloropropane	2560		50	ug/kg	2500		102	70-130		
cis-1,3-Dichloropropene	2310		50	ug/kg	2500		92.6	70-130		
trans-1,3-Dichloropropene	2460		50	ug/kg	2500		98.4	70-130		
1,1-Dichloropropene	2290		50	ug/kg	2500		91.6	70-130		
Diethyl ether	2460		250	ug/kg	2500		98.5	70-130		
1,4-Dioxane	11600		5000	ug/kg	12500		92.4	0-200		
Ethylbenzene	2220		50	ug/kg	2500		88.6	70-130		
Hexachlorobutadiene	2340		50	ug/kg	2500		93.8	70-130		
2-Hexanone	2320		500	ug/kg	2500		92.8	50-150		
Isopropylbenzene	2250		50	ug/kg	2500		89.9	70-130		
p-Isopropyltoluene	2310		50	ug/kg	2500		92.5	70-130		
Methylene Chloride	2570		100	ug/kg	2500		103	60-140		
4-Methyl-2-pentanone	2530		350	ug/kg	2500		101	50-150		
Naphthalene	2160		50	ug/kg	2500		86.5	70-130		
n-Propylbenzene	2260		50	ug/kg	2500		90.4	70-130		
Styrene	2160		50	ug/kg	2500		86.5	70-130		
1,1,1,2-Tetrachloroethane	2320		50	ug/kg	2500		92.9	70-130		
Tetrachloroethene	2120		50	ug/kg	2500		84.6	70-130		
Tetrahydrofuran	2330		250	ug/kg	2500		93.4	70-130		
Toluene	2340		50	ug/kg	2500		93.5	70-130		
1,2,4-Trichlorobenzene	2210		50	ug/kg	2500		88.3	70-130		
1,2,3-Trichlorobenzene	2070		50	ug/kg	2500		82.9	70-130		
1,1,2-Trichloroethane	2440		50	ug/kg	2500		97.5	70-130		
1,1,1-Trichloroethane	2410		50	ug/kg	2500		96.4	70-130		
Trichloroethene	2230		50	ug/kg	2500		89.0	70-130		
1,2,3-Trichloropropane	2200		50	ug/kg	2500		87.8	70-130		
1,3,5-Trimethylbenzene	2270		50	ug/kg	2500		90.6	70-130		
1,2,4-Trimethylbenzene	2250		50	ug/kg	2500		90.2	70-130		
Vinyl Chloride	2550		50	ug/kg	2500		102	50-150		
o-Xylene	2210		50	ug/kg	2500		88.4	70-130		
m&p-Xylene	4530		100	ug/kg	5000		90.6	70-130		
1,1,2,2-Tetrachloroethane	2410		50	ug/kg	2500		96.3	70-130		
tert-Amyl methyl ether	2390		50	ug/kg	2500		95.8	70-130		
1,3-Dichloropropane	2530		50	ug/kg	2500		101	70-130		
Ethyl tert-butyl ether	2490		50	ug/kg	2500		99.4	70-130		
Diisopropyl ether	2560		50	ug/kg	2500		102	70-130		
Trichlorofluoromethane	2500		50	ug/kg	2500		100	50-150		
Dichlorodifluoromethane	2630		50	ug/kg	2500		105	50-150		
<i>Surrogate: 4-Bromofluorobenzene</i>			<i>50.4</i>	<i>ug/l</i>	<i>50.0</i>		<i>101</i>	<i>70-130</i>		
<i>Surrogate: 1,2-Dichloroethane-d4</i>			<i>45.8</i>	<i>ug/l</i>	<i>50.0</i>		<i>91.7</i>	<i>70-130</i>		
<i>Surrogate: Toluene-d8</i>			<i>52.8</i>	<i>ug/l</i>	<i>50.0</i>		<i>106</i>	<i>70-130</i>		

Quality Control
(Continued)

Volatile Organic Compounds 8260C (5035-HL) (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4E0374 - Purge-Trap (Continued)					Prepared & Analyzed: 05/08/24					
LCS Dup (B4E0374-BSD1)										
Acetone	1230		250	ug/kg	2500		49.3	50-150	9.99	30
Benzene	2400		50	ug/kg	2500		95.9	70-130	1.92	30
Bromobenzene	2190		50	ug/kg	2500		87.7	70-130	0.618	30
Bromochloromethane	2260		50	ug/kg	2500		90.6	70-130	0.529	30
Bromodichloromethane	2230		50	ug/kg	2500		89.3	70-130	9.71	30
Bromoform	2200		50	ug/kg	2500		87.9	70-130	4.06	30
Bromomethane	2200		50	ug/kg	2500		87.9	50-150	13.5	30
2-Butanone	2000		1250	ug/kg	2500		80.2	50-150	0.373	30
tert-Butyl alcohol	2030		250	ug/kg	2500		81.3	70-130	4.12	30
sec-Butylbenzene	2250		50	ug/kg	2500		90.0	70-130	1.19	30
n-Butylbenzene	2280		50	ug/kg	2500		91.3	70-130	2.27	30
tert-Butylbenzene	2250		50	ug/kg	2500		90.1	70-130	1.25	30
Methyl t-butyl ether (MTBE)	2450		50	ug/kg	2500		98.0	70-130	0.854	30
Carbon Disulfide	2250		50	ug/kg	2500		90.0	70-130	0.535	30
Carbon Tetrachloride	2500		50	ug/kg	2500		100	70-130	1.25	30
Chlorobenzene	2170		50	ug/kg	2500		86.9	70-130	0.573	30
Chloroethane	2320		50	ug/kg	2500		92.9	50-150	2.51	30
Chloroform	2320		50	ug/kg	2500		92.9	70-130	9.03	30
Chloromethane	2440		50	ug/kg	2500		97.7	50-150	1.44	30
4-Chlorotoluene	2210		50	ug/kg	2500		88.4	70-130	0.136	30
2-Chlorotoluene	2090		50	ug/kg	2500		83.5	70-130	0.649	30
1,2-Dibromo-3-chloropropane (DBCP)	1940		50	ug/kg	2500		77.8	70-130	6.83	30
Dibromochloromethane	2280		50	ug/kg	2500		91.3	70-130	5.54	30
1,2-Dibromoethane (EDB)	2340		50	ug/kg	2500		93.8	70-130	2.11	30
Dibromomethane	2280		50	ug/kg	2500		91.2	70-130	7.58	30
1,2-Dichlorobenzene	2150		50	ug/kg	2500		86.1	70-130	1.00	30
1,3-Dichlorobenzene	2240		50	ug/kg	2500		89.5	70-130	1.35	30
1,4-Dichlorobenzene	2330		50	ug/kg	2500		93.2	70-130	5.69	30
1,1-Dichloroethane	2380		50	ug/kg	2500		95.4	70-130	3.18	30
1,2-Dichloroethane	2370		50	ug/kg	2500		94.8	70-130	5.20	30
trans-1,2-Dichloroethene	2350		50	ug/kg	2500		94.0	70-130	2.69	30
cis-1,2-Dichloroethene	2240		50	ug/kg	2500		89.6	70-130	5.41	30
1,1-Dichloroethene	2370		50	ug/kg	2500		94.9	70-130	7.52	30
1,2-Dichloropropane	2220		50	ug/kg	2500		88.6	70-130	2.14	30
2,2-Dichloropropane	2500		50	ug/kg	2500		99.9	70-130	2.51	30
cis-1,3-Dichloropropene	2340		50	ug/kg	2500		93.8	70-130	1.31	30
trans-1,3-Dichloropropene	2520		50	ug/kg	2500		101	70-130	2.23	30
1,1-Dichloropropene	2260		50	ug/kg	2500		90.3	70-130	1.43	30
Diethyl ether	2400		250	ug/kg	2500		96.0	70-130	2.61	30
1,4-Dioxane	10100		5000	ug/kg	12500		80.5	0-200	13.8	40
Ethylbenzene	2250		50	ug/kg	2500		90.0	70-130	1.52	30
Hexachlorobutadiene	2190		50	ug/kg	2500		87.8	70-130	6.61	30
2-Hexanone	2180		500	ug/kg	2500		87.1	50-150	6.40	30
Isopropylbenzene	2250		50	ug/kg	2500		90.0	70-130	0.156	30
p-Isopropyltoluene	2300		50	ug/kg	2500		92.0	70-130	0.477	30
Methylene Chloride	2600		100	ug/kg	2500		104	60-140	1.12	30
4-Methyl-2-pentanone	2410		350	ug/kg	2500		96.3	50-150	4.92	30
Naphthalene	2020		50	ug/kg	2500		80.6	70-130	6.99	30
n-Propylbenzene	2290		50	ug/kg	2500		91.7	70-130	1.52	30
Styrene	2130		50	ug/kg	2500		85.2	70-130	1.49	30
1,1,1,2-Tetrachloroethane	2350		50	ug/kg	2500		94.1	70-130	1.33	30
Tetrachloroethene	2200		50	ug/kg	2500		88.1	70-130	4.05	30
Tetrahydrofuran	2380		250	ug/kg	2500		95.4	70-130	2.16	30
Toluene	2310		50	ug/kg	2500		92.3	70-130	1.27	30
1,2,4-Trichlorobenzene	2140		50	ug/kg	2500		85.5	70-130	3.22	30
1,2,3-Trichlorobenzene	1900		50	ug/kg	2500		75.9	70-130	8.87	30
1,1,2-Trichloroethane	2210		50	ug/kg	2500		88.4	70-130	8.77	30

Quality Control

(Continued)

Volatile Organic Compounds 8260C (5035-HL) (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4E0374 - Purge-Trap (Continued)										
LCS Dup (B4E0374-BSD1)					Prepared & Analyzed: 05/08/24					
1,1,1-Trichloroethane	2430		50	ug/kg	2500		97.1	70-130	0.786	30
Trichloroethene	2060		50	ug/kg	2500		82.4	70-130	7.70	30
1,2,3-Trichloropropane	2180		50	ug/kg	2500		87.2	70-130	0.708	30
1,3,5-Trimethylbenzene	2210		50	ug/kg	2500		88.5	70-130	2.43	30
1,2,4-Trimethylbenzene	2260		50	ug/kg	2500		90.4	70-130	0.199	30
Vinyl Chloride	2500		50	ug/kg	2500		99.9	50-150	2.22	30
o-Xylene	2200		50	ug/kg	2500		87.8	70-130	0.636	30
m&p-Xylene	4520		100	ug/kg	5000		90.4	70-130	0.243	30
1,1,1,2-Tetrachloroethane	2330		50	ug/kg	2500		93.2	70-130	3.27	30
tert-Amyl methyl ether	2480		50	ug/kg	2500		99.1	70-130	3.41	30
1,3-Dichloropropane	2410		50	ug/kg	2500		96.4	70-130	5.00	30
Ethyl tert-butyl ether	2300		50	ug/kg	2500		92.2	70-130	7.54	30
Diisopropyl ether	2470		50	ug/kg	2500		98.7	70-130	3.66	30
Trichlorofluoromethane	2580		50	ug/kg	2500		103	50-150	2.83	30
Dichlorodifluoromethane	2740		50	ug/kg	2500		110	50-150	3.94	30
<hr style="border-top: 1px dashed black;"/>										
<i>Surrogate: 4-Bromofluorobenzene</i>			<i>52.2</i>	<i>ug/l</i>	<i>50.0</i>		<i>104</i>	<i>70-130</i>		
<i>Surrogate: 1,2-Dichloroethane-d4</i>			<i>53.4</i>	<i>ug/l</i>	<i>50.0</i>		<i>107</i>	<i>70-130</i>		
<i>Surrogate: Toluene-d8</i>			<i>51.6</i>	<i>ug/l</i>	<i>50.0</i>		<i>103</i>	<i>70-130</i>		

Quality Control
(Continued)

Semivolatile organic compounds (PAH only)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4D1186 - 1_Semivolatiles Extractions										
Blank (B4D1186-BLK1)										
					Prepared: 04/26/24 Analyzed: 04/29/24					
2-Methylnaphthalene	ND		130	ug/kg						
Acenaphthene	ND		130	ug/kg						
Acenaphthylene	ND		130	ug/kg						
Anthracene	ND		130	ug/kg						
Benzo(a)anthracene	ND		130	ug/kg						
Benzo(a)pyrene	ND		130	ug/kg						
Benzo(b)fluoranthene	ND		130	ug/kg						
Benzo(g,h,i)perylene	ND		130	ug/kg						
Benzo(k)fluoranthene	ND		130	ug/kg						
Chrysene	ND		130	ug/kg						
Dibenz(a,h)anthracene	ND		130	ug/kg						
Dibenzofuran	ND		130	ug/kg						
Fluoranthene	ND		130	ug/kg						
Fluorene	ND		130	ug/kg						
Indeno(1,2,3-cd)pyrene	ND		130	ug/kg						
Naphthalene	ND		130	ug/kg						
Phenanthrene	ND		130	ug/kg						
Pyrene	ND		130	ug/kg						
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<i>Surrogate: Nitrobenzene-d5</i>			2400	ug/kg	3330		71.9	30-126		
<i>Surrogate: p-Terphenyl-d14</i>			3080	ug/kg	3330		92.4	47-130		
<i>Surrogate: 2-Fluorobiphenyl</i>			2460	ug/kg	3330		73.8	34-130		
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LCS (B4D1186-BS1)										
					Prepared: 04/26/24 Analyzed: 04/29/24					
2-Methylnaphthalene	2910		130	ug/kg	3330		87.2	40-140		
Acenaphthene	2940		130	ug/kg	3330		88.2	40-140		
Acenaphthylene	3390		130	ug/kg	3330		102	40-140		
Anthracene	2890		130	ug/kg	3330		86.7	40-140		
Benzo(a)anthracene	3020		130	ug/kg	3330		90.6	40-140		
Benzo(a)pyrene	3450		130	ug/kg	3330		103	40-140		
Benzo(b)fluoranthene	4100		130	ug/kg	3330		123	40-140		
Benzo(g,h,i)perylene	4020		130	ug/kg	3330		121	40-140		
Benzo(k)fluoranthene	3800		130	ug/kg	3330		114	40-140		
Chrysene	3010		130	ug/kg	3330		90.3	40-140		
Dibenz(a,h)anthracene	4200		130	ug/kg	3330		126	40-140		
Dibenzofuran	3580		130	ug/kg	3330		107	40-140		
Fluoranthene	2670		130	ug/kg	3330		80.2	40-140		
Fluorene	3930		130	ug/kg	3330		118	40-140		
Indeno(1,2,3-cd)pyrene	4260		130	ug/kg	3330		128	40-140		
Naphthalene	2850		130	ug/kg	3330		85.5	40-140		
Phenanthrene	2850		130	ug/kg	3330		85.6	40-140		
Pyrene	3030		130	ug/kg	3330		90.9	40-140		
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<i>Surrogate: Nitrobenzene-d5</i>			3310	ug/kg	3330		99.3	30-126		
<i>Surrogate: p-Terphenyl-d14</i>			3870	ug/kg	3330		116	47-130		
<i>Surrogate: 2-Fluorobiphenyl</i>			3600	ug/kg	3330		108	34-130		

Quality Control
(Continued)

Semivolatile organic compounds (PAH only) (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4D1186 - 1_Semivolatiles Extractions (Continued)										
LCS Dup (B4D1186-BSD1)					Prepared: 04/26/24 Analyzed: 04/29/24					
2-Methylnaphthalene	2890		130	ug/kg	3330		86.8	40-140	0.368	30
Acenaphthene	2770		130	ug/kg	3330		83.1	40-140	5.98	30
Acenaphthylene	3020		130	ug/kg	3330		90.5	40-140	11.6	30
Anthracene	2770		130	ug/kg	3330		83.1	40-140	4.19	30
Benzo(a)anthracene	2790		130	ug/kg	3330		83.8	40-140	7.78	30
Benzo(a)pyrene	3020		130	ug/kg	3330		90.7	40-140	13.1	30
Benzo(b)fluoranthene	3270		130	ug/kg	3330		98.1	40-140	22.5	30
Benzo(g,h,i)perylene	2810		130	ug/kg	3330		84.4	40-140	35.3	30
Benzo(k)fluoranthene	3370		130	ug/kg	3330		101	40-140	11.8	30
Chrysene	2840		130	ug/kg	3330		85.3	40-140	5.72	30
Dibenz(a,h)anthracene	2870		130	ug/kg	3330		86.1	40-140	37.5	30
Dibenzofuran	3200		130	ug/kg	3330		95.9	40-140	11.2	30
Fluoranthene	2590		130	ug/kg	3330		77.7	40-140	3.16	30
Fluorene	3000		130	ug/kg	3330		89.9	40-140	27.0	30
Indeno(1,2,3-cd)pyrene	2890		130	ug/kg	3330		86.6	40-140	38.4	30
Naphthalene	2740		130	ug/kg	3330		82.1	40-140	4.15	30
Phenanthrene	2780		130	ug/kg	3330		83.5	40-140	2.48	30
Pyrene	2540		130	ug/kg	3330		76.3	40-140	17.5	30
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<i>Surrogate: Nitrobenzene-d5</i>			<i>3050</i>	<i>ug/kg</i>	<i>3330</i>		<i>91.5</i>	<i>30-126</i>		
<i>Surrogate: p-Terphenyl-d14</i>			<i>3190</i>	<i>ug/kg</i>	<i>3330</i>		<i>95.8</i>	<i>47-130</i>		
<i>Surrogate: 2-Fluorobiphenyl</i>			<i>3360</i>	<i>ug/kg</i>	<i>3330</i>		<i>101</i>	<i>34-130</i>		

Quality Control
(Continued)

Total Petroleum Hydrocarbons

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4E0324 - 1_Semivolatiles Extractions										
Blank (B4E0324-BLK1)					Prepared & Analyzed: 05/08/24					
Total Petroleum Hydrocarbons	ND		27	mg/kg						

Surrogate: Chlorooctadecane			7.00	mg/kg	8.33		84.0	50-130		
LCS (B4E0324-BS1)					Prepared & Analyzed: 05/08/24					
Total Petroleum Hydrocarbons	566		27	mg/kg	667		84.9	44.7-125		

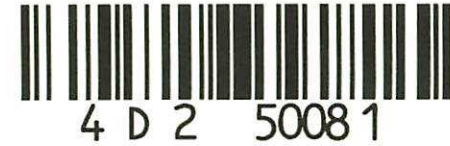
Surrogate: Chlorooctadecane			7.35	mg/kg	8.33		88.2	50-130		
LCS Dup (B4E0324-BSD1)					Prepared & Analyzed: 05/08/24					
Total Petroleum Hydrocarbons	610		27	mg/kg	667		91.5	44.7-125	7.49	30

Surrogate: Chlorooctadecane			7.96	mg/kg	8.33		95.5	50-130		

Notes and Definitions

Item	Definition
Wet	Sample results reported on a wet weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.

CHAIN OF CUSTODY RECORD



PROJ. NO.		PROJECT NAME/LOCATION				AQUEOUS	SOL	OTHER	NO. OF CONTAINERS	PRESERVATIVE	TESTS*	REMARKS
09050410		434 Allens Ave Providence, RI										
CLIENT												
Lake Shore Environmental												
REPORT TO: Dave Hazebrouck, Isabella Gialomo												
INVOICE TO: same												
DATE	TIME	COMP	GRAB	SAMPLE I.D.								
4/24/24	2:45	✓		HA-1		✓		1	NONE	✓		
	4:05			HA-2								
	4:10			HA-3								
	3:50			HA-4								
	4:00			HA-5								

Sampled by: (Signature) <i>Jolly</i>	Date/Time 4/24/24 4:58	Received by: (Signature) <i>Ryan</i>	Date/Time 4/25/24 10:00	Laboratory Remarks: Temp. received: _____ Cooled <input type="checkbox"/>	Special Instructions: List Specific Detection Limit Requirements:
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time		
Relinquished by: (Signature) <i>Ryan Ryan</i>	Date/Time 4/25/24 1410	Received for Laboratory by: (Signature) <i>RK</i>	Date/Time 4/25/24 1410		

Turnaround (Business Days) **48 hr**

**Netlab subcontracts the following tests: Radiologicals, Radon, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates, CT ETPH

CHAIN OF CUSTODY RECORD



PROJ. NO.		PROJECT NAME/LOCATION				AQUEOUS	SOIL	OTHER	NO. OF CONTAINERS	PRESERVATIVE	TESTS	REMARKS
09050410		434 Allens Ave Providence, RI										
CLIENT												
Lake Shore Environmental												
REPORT TO: Dave Hazebrouck, Isabella Giacomini												
INVOICE TO: same												
DATE	TIME	COMP	GRAB	SAMPLE I.D.						PAHS	TPH	VOC
4/24/24	2:45	✓		HA-1		✓		1	NONE	✓	X	X
	4:05			HA-2						X	X	
	4:10			HA-3						X	X	
	3:50			HA-4						X	X	
	4:00			HA-5						X	X	
<p>*vials provided by Isabelle 5/8 additional analysis per Isabelle please expedite to meet hold time of 5/8 <i>Isabelle</i></p>												

Sampled by: (Signature) <i>Isabelle</i>	Date/Time 4/24/24 4:58	Received by: (Signature) <i>Ryan</i>	Date/Time 4/25/24 10:00	Laboratory Remarks: Temp. received: _____ Cooled <input type="checkbox"/>	Special Instructions: List Specific Detection Limit Requirements:
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time		
Relinquished by: (Signature) <i>Ryan</i>	Date/Time 4/25/24 1410	Received for Laboratory by: (Signature) <i>R/K</i>	Date/Time 4/25/24 1410		
					Turnaround (Business Days) 48 hr

**Nefab subcontracts the following tests: Radiologicals, Radon, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates, CT ETPH

DVA



New England Testing Laboratory, Inc.
(401) 353-3420

REPORT OF ANALYTICAL RESULTS

NETLAB Work Order Number: 4F04116
Client Project: 09050 - RIRM, 434 Allens Ave, Providence

Report Date: 06-June-2024

Prepared for:

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Lake Shore Environmental
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Samples Submitted :

The samples listed below were submitted to New England Testing Laboratory on 06/04/24. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provided to us by the client which are indicated on the custody record. The case number for this sample submission is 4F04116. Custody records are included in this report.

Lab ID	Sample	Matrix	Date Sampled	Date Received
4F04116-01	HA-6	Soil	06/03/2024	06/04/2024
4F04116-02	HA-7	Soil	06/03/2024	06/04/2024
4F04116-03	HA-8	Soil	06/03/2024	06/04/2024
4F04116-04	HA-9	Soil	06/03/2024	06/04/2024

Request for Analysis

At the client's request, the analyses presented in the following table were performed on the samples submitted.

HA-6 (Lab Number: 4F04116-01)

Polynuclear Aromatic Hydrocarbons
Total Petroleum Hydrocarbons
Volatile Organic Compounds

Method

EPA 8270D
EPA-8100-mod
EPA 8260C

HA-7 (Lab Number: 4F04116-02)

Polynuclear Aromatic Hydrocarbons
Total Petroleum Hydrocarbons
Volatile Organic Compounds

Method

EPA 8270D
EPA-8100-mod
EPA 8260C

HA-8 (Lab Number: 4F04116-03)

Polynuclear Aromatic Hydrocarbons
Total Petroleum Hydrocarbons
Volatile Organic Compounds

Method

EPA 8270D
EPA-8100-mod
EPA 8260C

HA-9 (Lab Number: 4F04116-04)

Polynuclear Aromatic Hydrocarbons
Total Petroleum Hydrocarbons
Volatile Organic Compounds

Method

EPA 8270D
EPA-8100-mod
EPA 8260C

Method References

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, USEPA

Case Narrative

Sample Receipt:

The samples associated with this work order were received in appropriately cooled and preserved containers. The chain of custody was adequately completed and corresponded to the samples submitted.

Exceptions: None

Analysis:

All samples were prepared and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control requirements and allowances. Results for all soil samples, unless otherwise indicated, are reported on a dry weight basis.

Exceptions:

8270: The samples have elevated detection limits due to matrix interference.

Results: Volatile Organic Compounds 8260C (5035-HL)

Sample: HA-6

Lab Number: 4F04116-01 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		4320	ug/kg	06/05/24	06/05/24
Benzene	ND		86	ug/kg	06/05/24	06/05/24
Bromobenzene	ND		86	ug/kg	06/05/24	06/05/24
Bromochloromethane	ND		86	ug/kg	06/05/24	06/05/24
Bromodichloromethane	ND		86	ug/kg	06/05/24	06/05/24
Bromoform	ND		86	ug/kg	06/05/24	06/05/24
Bromomethane	ND		86	ug/kg	06/05/24	06/05/24
2-Butanone	ND		2160	ug/kg	06/05/24	06/05/24
tert-Butyl alcohol	ND		432	ug/kg	06/05/24	06/05/24
sec-Butylbenzene	ND		86	ug/kg	06/05/24	06/05/24
n-Butylbenzene	ND		86	ug/kg	06/05/24	06/05/24
tert-Butylbenzene	ND		86	ug/kg	06/05/24	06/05/24
Methyl t-butyl ether (MTBE)	ND		86	ug/kg	06/05/24	06/05/24
Carbon Disulfide	ND		86	ug/kg	06/05/24	06/05/24
Carbon Tetrachloride	ND		86	ug/kg	06/05/24	06/05/24
Chlorobenzene	ND		86	ug/kg	06/05/24	06/05/24
Chloroethane	ND		86	ug/kg	06/05/24	06/05/24
Chloroform	ND		86	ug/kg	06/05/24	06/05/24
Chloromethane	ND		86	ug/kg	06/05/24	06/05/24
4-Chlorotoluene	ND		86	ug/kg	06/05/24	06/05/24
2-Chlorotoluene	ND		86	ug/kg	06/05/24	06/05/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		86	ug/kg	06/05/24	06/05/24
Dibromochloromethane	ND		86	ug/kg	06/05/24	06/05/24
1,2-Dibromoethane (EDB)	ND		86	ug/kg	06/05/24	06/05/24
Dibromomethane	ND		86	ug/kg	06/05/24	06/05/24
1,2-Dichlorobenzene	ND		86	ug/kg	06/05/24	06/05/24
1,3-Dichlorobenzene	ND		86	ug/kg	06/05/24	06/05/24
1,4-Dichlorobenzene	ND		86	ug/kg	06/05/24	06/05/24
1,1-Dichloroethane	ND		86	ug/kg	06/05/24	06/05/24
1,2-Dichloroethane	ND		86	ug/kg	06/05/24	06/05/24
trans-1,2-Dichloroethene	ND		86	ug/kg	06/05/24	06/05/24
cis-1,2-Dichloroethene	ND		86	ug/kg	06/05/24	06/05/24
1,1-Dichloroethene	ND		86	ug/kg	06/05/24	06/05/24
1,2-Dichloropropane	ND		86	ug/kg	06/05/24	06/05/24
2,2-Dichloropropane	ND		86	ug/kg	06/05/24	06/05/24
cis-1,3-Dichloropropene	ND		86	ug/kg	06/05/24	06/05/24
trans-1,3-Dichloropropene	ND		86	ug/kg	06/05/24	06/05/24
1,1-Dichloropropene	ND		86	ug/kg	06/05/24	06/05/24
1,3-Dichloropropene (cis + trans)	ND		173	ug/kg	06/05/24	06/05/24
Diethyl ether	ND		432	ug/kg	06/05/24	06/05/24
1,4-Dioxane	ND		8640	ug/kg	06/05/24	06/05/24
Ethylbenzene	ND		86	ug/kg	06/05/24	06/05/24
Hexachlorobutadiene	ND		86	ug/kg	06/05/24	06/05/24
2-Hexanone	ND		864	ug/kg	06/05/24	06/05/24
Isopropylbenzene	ND		86	ug/kg	06/05/24	06/05/24
p-Isopropyltoluene	ND		86	ug/kg	06/05/24	06/05/24
Methylene Chloride	ND		173	ug/kg	06/05/24	06/05/24

Results: Volatile Organic Compounds 8260C (5035-HL) (Continued)

Sample: HA-6 (Continued)

Lab Number: 4F04116-01 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
4-Methyl-2-pentanone	ND		605	ug/kg	06/05/24	06/05/24
Naphthalene	ND		86	ug/kg	06/05/24	06/05/24
n-Propylbenzene	ND		86	ug/kg	06/05/24	06/05/24
Styrene	ND		86	ug/kg	06/05/24	06/05/24
1,1,1,2-Tetrachloroethane	ND		86	ug/kg	06/05/24	06/05/24
Tetrachloroethene	ND		86	ug/kg	06/05/24	06/05/24
Tetrahydrofuran	ND		432	ug/kg	06/05/24	06/05/24
Toluene	ND		86	ug/kg	06/05/24	06/05/24
1,2,4-Trichlorobenzene	ND		86	ug/kg	06/05/24	06/05/24
1,2,3-Trichlorobenzene	ND		86	ug/kg	06/05/24	06/05/24
1,1,2-Trichloroethane	ND		86	ug/kg	06/05/24	06/05/24
1,1,1-Trichloroethane	ND		86	ug/kg	06/05/24	06/05/24
Trichloroethene	ND		86	ug/kg	06/05/24	06/05/24
1,2,3-Trichloropropane	ND		86	ug/kg	06/05/24	06/05/24
1,3,5-Trimethylbenzene	ND		86	ug/kg	06/05/24	06/05/24
1,2,4-Trimethylbenzene	ND		86	ug/kg	06/05/24	06/05/24
Vinyl Chloride	ND		86	ug/kg	06/05/24	06/05/24
o-Xylene	523		86	ug/kg	06/05/24	06/05/24
m&p-Xylene	1030		173	ug/kg	06/05/24	06/05/24
Total xylenes	1550		86	ug/kg	06/05/24	06/05/24
1,1,2,2-Tetrachloroethane	ND		86	ug/kg	06/05/24	06/05/24
tert-Amyl methyl ether	ND		86	ug/kg	06/05/24	06/05/24
1,3-Dichloropropane	ND		86	ug/kg	06/05/24	06/05/24
Ethyl tert-butyl ether	ND		86	ug/kg	06/05/24	06/05/24
Diisopropyl ether	ND		86	ug/kg	06/05/24	06/05/24
Trichlorofluoromethane	ND		86	ug/kg	06/05/24	06/05/24
Dichlorodifluoromethane	ND		86	ug/kg	06/05/24	06/05/24
1,2 Dichloroethene, Total	ND		86	ug/kg	06/05/24	06/05/24
<hr/>						
Surrogate(s)	Recovery%		Limits			
<hr/>						
4-Bromofluorobenzene	96.2%		70-130		06/05/24	06/05/24
1,2-Dichloroethane-d4	99.6%		70-130		06/05/24	06/05/24
Toluene-d8	94.2%		70-130		06/05/24	06/05/24

Results: Volatile Organic Compounds 8260C (5035-HL)**Sample: HA-7****Lab Number: 4F04116-02 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		4870	ug/kg	06/05/24	06/05/24
Benzene	ND		97	ug/kg	06/05/24	06/05/24
Bromobenzene	ND		97	ug/kg	06/05/24	06/05/24
Bromochloromethane	ND		97	ug/kg	06/05/24	06/05/24
Bromodichloromethane	ND		97	ug/kg	06/05/24	06/05/24
Bromoform	ND		97	ug/kg	06/05/24	06/05/24
Bromomethane	ND		97	ug/kg	06/05/24	06/05/24
2-Butanone	ND		2430	ug/kg	06/05/24	06/05/24
tert-Butyl alcohol	ND		487	ug/kg	06/05/24	06/05/24
sec-Butylbenzene	ND		97	ug/kg	06/05/24	06/05/24
n-Butylbenzene	ND		97	ug/kg	06/05/24	06/05/24
tert-Butylbenzene	ND		97	ug/kg	06/05/24	06/05/24
Methyl t-butyl ether (MTBE)	ND		97	ug/kg	06/05/24	06/05/24
Carbon Disulfide	ND		97	ug/kg	06/05/24	06/05/24
Carbon Tetrachloride	ND		97	ug/kg	06/05/24	06/05/24
Chlorobenzene	ND		97	ug/kg	06/05/24	06/05/24
Chloroethane	ND		97	ug/kg	06/05/24	06/05/24
Chloroform	ND		97	ug/kg	06/05/24	06/05/24
Chloromethane	ND		97	ug/kg	06/05/24	06/05/24
4-Chlorotoluene	ND		97	ug/kg	06/05/24	06/05/24
2-Chlorotoluene	ND		97	ug/kg	06/05/24	06/05/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		97	ug/kg	06/05/24	06/05/24
Dibromochloromethane	ND		97	ug/kg	06/05/24	06/05/24
1,2-Dibromoethane (EDB)	ND		97	ug/kg	06/05/24	06/05/24
Dibromomethane	ND		97	ug/kg	06/05/24	06/05/24
1,2-Dichlorobenzene	ND		97	ug/kg	06/05/24	06/05/24
1,3-Dichlorobenzene	ND		97	ug/kg	06/05/24	06/05/24
1,4-Dichlorobenzene	ND		97	ug/kg	06/05/24	06/05/24
1,1-Dichloroethane	ND		97	ug/kg	06/05/24	06/05/24
1,2-Dichloroethane	ND		97	ug/kg	06/05/24	06/05/24
trans-1,2-Dichloroethene	ND		97	ug/kg	06/05/24	06/05/24
cis-1,2-Dichloroethene	ND		97	ug/kg	06/05/24	06/05/24
1,1-Dichloroethene	ND		97	ug/kg	06/05/24	06/05/24
1,2-Dichloropropane	ND		97	ug/kg	06/05/24	06/05/24
2,2-Dichloropropane	ND		97	ug/kg	06/05/24	06/05/24
cis-1,3-Dichloropropene	ND		97	ug/kg	06/05/24	06/05/24
trans-1,3-Dichloropropene	ND		97	ug/kg	06/05/24	06/05/24
1,1-Dichloropropene	ND		97	ug/kg	06/05/24	06/05/24
1,3-Dichloropropene (cis + trans)	ND		195	ug/kg	06/05/24	06/05/24
Diethyl ether	ND		487	ug/kg	06/05/24	06/05/24
1,4-Dioxane	ND		9730	ug/kg	06/05/24	06/05/24
Ethylbenzene	ND		97	ug/kg	06/05/24	06/05/24
Hexachlorobutadiene	ND		97	ug/kg	06/05/24	06/05/24
2-Hexanone	ND		973	ug/kg	06/05/24	06/05/24
Isopropylbenzene	ND		97	ug/kg	06/05/24	06/05/24
p-Isopropyltoluene	ND		97	ug/kg	06/05/24	06/05/24
Methylene Chloride	ND		195	ug/kg	06/05/24	06/05/24

Results: Volatile Organic Compounds 8260C (5035-HL) (Continued)

Sample: HA-7 (Continued)

Lab Number: 4F04116-02 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
4-Methyl-2-pentanone	ND		681	ug/kg	06/05/24	06/05/24
Naphthalene	ND		97	ug/kg	06/05/24	06/05/24
n-Propylbenzene	ND		97	ug/kg	06/05/24	06/05/24
Styrene	577		97	ug/kg	06/05/24	06/05/24
1,1,1,2-Tetrachloroethane	ND		97	ug/kg	06/05/24	06/05/24
Tetrachloroethene	ND		97	ug/kg	06/05/24	06/05/24
Tetrahydrofuran	ND		487	ug/kg	06/05/24	06/05/24
Toluene	ND		97	ug/kg	06/05/24	06/05/24
1,2,4-Trichlorobenzene	ND		97	ug/kg	06/05/24	06/05/24
1,2,3-Trichlorobenzene	ND		97	ug/kg	06/05/24	06/05/24
1,1,2-Trichloroethane	ND		97	ug/kg	06/05/24	06/05/24
1,1,1-Trichloroethane	ND		97	ug/kg	06/05/24	06/05/24
Trichloroethene	ND		97	ug/kg	06/05/24	06/05/24
1,2,3-Trichloropropane	ND		97	ug/kg	06/05/24	06/05/24
1,3,5-Trimethylbenzene	ND		97	ug/kg	06/05/24	06/05/24
1,2,4-Trimethylbenzene	ND		97	ug/kg	06/05/24	06/05/24
Vinyl Chloride	ND		97	ug/kg	06/05/24	06/05/24
o-Xylene	ND		97	ug/kg	06/05/24	06/05/24
m&p-Xylene	1150		195	ug/kg	06/05/24	06/05/24
Total xylenes	1150		97	ug/kg	06/05/24	06/05/24
1,1,1,2-Tetrachloroethane	ND		97	ug/kg	06/05/24	06/05/24
tert-Amyl methyl ether	ND		97	ug/kg	06/05/24	06/05/24
1,3-Dichloropropane	ND		97	ug/kg	06/05/24	06/05/24
Ethyl tert-butyl ether	ND		97	ug/kg	06/05/24	06/05/24
Diisopropyl ether	ND		97	ug/kg	06/05/24	06/05/24
Trichlorofluoromethane	ND		97	ug/kg	06/05/24	06/05/24
Dichlorodifluoromethane	ND		97	ug/kg	06/05/24	06/05/24
1,2 Dichloroethene, Total	ND		97	ug/kg	06/05/24	06/05/24
Surrogate(s)	Recovery%		Limits			
<i>4-Bromofluorobenzene</i>	98.5%		70-130		06/05/24	06/05/24
<i>1,2-Dichloroethane-d4</i>	97.7%		70-130		06/05/24	06/05/24
<i>Toluene-d8</i>	95.1%		70-130		06/05/24	06/05/24

Results: Volatile Organic Compounds 8260C (5035-HL)

Sample: HA-8

Lab Number: 4F04116-03 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		2740	ug/kg	06/05/24	06/05/24
Benzene	ND		55	ug/kg	06/05/24	06/05/24
Bromobenzene	ND		55	ug/kg	06/05/24	06/05/24
Bromochloromethane	ND		55	ug/kg	06/05/24	06/05/24
Bromodichloromethane	ND		55	ug/kg	06/05/24	06/05/24
Bromoform	ND		55	ug/kg	06/05/24	06/05/24
Bromomethane	ND		55	ug/kg	06/05/24	06/05/24
2-Butanone	ND		1370	ug/kg	06/05/24	06/05/24
tert-Butyl alcohol	ND		274	ug/kg	06/05/24	06/05/24
sec-Butylbenzene	ND		55	ug/kg	06/05/24	06/05/24
n-Butylbenzene	ND		55	ug/kg	06/05/24	06/05/24
tert-Butylbenzene	ND		55	ug/kg	06/05/24	06/05/24
Methyl t-butyl ether (MTBE)	ND		55	ug/kg	06/05/24	06/05/24
Carbon Disulfide	ND		55	ug/kg	06/05/24	06/05/24
Carbon Tetrachloride	ND		55	ug/kg	06/05/24	06/05/24
Chlorobenzene	ND		55	ug/kg	06/05/24	06/05/24
Chloroethane	ND		55	ug/kg	06/05/24	06/05/24
Chloroform	ND		55	ug/kg	06/05/24	06/05/24
Chloromethane	ND		55	ug/kg	06/05/24	06/05/24
4-Chlorotoluene	ND		55	ug/kg	06/05/24	06/05/24
2-Chlorotoluene	ND		55	ug/kg	06/05/24	06/05/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		55	ug/kg	06/05/24	06/05/24
Dibromochloromethane	ND		55	ug/kg	06/05/24	06/05/24
1,2-Dibromoethane (EDB)	ND		55	ug/kg	06/05/24	06/05/24
Dibromomethane	ND		55	ug/kg	06/05/24	06/05/24
1,2-Dichlorobenzene	ND		55	ug/kg	06/05/24	06/05/24
1,3-Dichlorobenzene	ND		55	ug/kg	06/05/24	06/05/24
1,4-Dichlorobenzene	ND		55	ug/kg	06/05/24	06/05/24
1,1-Dichloroethane	ND		55	ug/kg	06/05/24	06/05/24
1,2-Dichloroethane	ND		55	ug/kg	06/05/24	06/05/24
trans-1,2-Dichloroethene	ND		55	ug/kg	06/05/24	06/05/24
cis-1,2-Dichloroethene	ND		55	ug/kg	06/05/24	06/05/24
1,1-Dichloroethene	ND		55	ug/kg	06/05/24	06/05/24
1,2-Dichloropropane	ND		55	ug/kg	06/05/24	06/05/24
2,2-Dichloropropane	ND		55	ug/kg	06/05/24	06/05/24
cis-1,3-Dichloropropene	ND		55	ug/kg	06/05/24	06/05/24
trans-1,3-Dichloropropene	ND		55	ug/kg	06/05/24	06/05/24
1,1-Dichloropropene	ND		55	ug/kg	06/05/24	06/05/24
1,3-Dichloropropene (cis + trans)	ND		110	ug/kg	06/05/24	06/05/24
Diethyl ether	ND		274	ug/kg	06/05/24	06/05/24
1,4-Dioxane	ND		5480	ug/kg	06/05/24	06/05/24
Ethylbenzene	ND		55	ug/kg	06/05/24	06/05/24
Hexachlorobutadiene	ND		55	ug/kg	06/05/24	06/05/24
2-Hexanone	ND		548	ug/kg	06/05/24	06/05/24
Isopropylbenzene	ND		55	ug/kg	06/05/24	06/05/24
p-Isopropyltoluene	ND		55	ug/kg	06/05/24	06/05/24
Methylene Chloride	ND		110	ug/kg	06/05/24	06/05/24

Results: Volatile Organic Compounds 8260C (5035-HL) (Continued)

Sample: HA-8 (Continued)

Lab Number: 4F04116-03 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
4-Methyl-2-pentanone	ND		383	ug/kg	06/05/24	06/05/24
Naphthalene	75		55	ug/kg	06/05/24	06/05/24
n-Propylbenzene	ND		55	ug/kg	06/05/24	06/05/24
Styrene	ND		55	ug/kg	06/05/24	06/05/24
1,1,1,2-Tetrachloroethane	ND		55	ug/kg	06/05/24	06/05/24
Tetrachloroethene	ND		55	ug/kg	06/05/24	06/05/24
Tetrahydrofuran	ND		274	ug/kg	06/05/24	06/05/24
Toluene	ND		55	ug/kg	06/05/24	06/05/24
1,2,4-Trichlorobenzene	ND		55	ug/kg	06/05/24	06/05/24
1,2,3-Trichlorobenzene	ND		55	ug/kg	06/05/24	06/05/24
1,1,2-Trichloroethane	ND		55	ug/kg	06/05/24	06/05/24
1,1,1-Trichloroethane	ND		55	ug/kg	06/05/24	06/05/24
Trichloroethene	ND		55	ug/kg	06/05/24	06/05/24
1,2,3-Trichloropropane	ND		55	ug/kg	06/05/24	06/05/24
1,3,5-Trimethylbenzene	ND		55	ug/kg	06/05/24	06/05/24
1,2,4-Trimethylbenzene	ND		55	ug/kg	06/05/24	06/05/24
Vinyl Chloride	ND		55	ug/kg	06/05/24	06/05/24
o-Xylene	ND		55	ug/kg	06/05/24	06/05/24
m&p-Xylene	ND		110	ug/kg	06/05/24	06/05/24
Total xylenes	ND		55	ug/kg	06/05/24	06/05/24
1,1,2,2-Tetrachloroethane	ND		55	ug/kg	06/05/24	06/05/24
tert-Amyl methyl ether	ND		55	ug/kg	06/05/24	06/05/24
1,3-Dichloropropane	ND		55	ug/kg	06/05/24	06/05/24
Ethyl tert-butyl ether	ND		55	ug/kg	06/05/24	06/05/24
Diisopropyl ether	ND		55	ug/kg	06/05/24	06/05/24
Trichlorofluoromethane	ND		55	ug/kg	06/05/24	06/05/24
Dichlorodifluoromethane	ND		55	ug/kg	06/05/24	06/05/24
1,2 Dichloroethene, Total	ND		55	ug/kg	06/05/24	06/05/24
<hr/>						
Surrogate(s)	Recovery%		Limits			
<i>4-Bromofluorobenzene</i>	<i>94.7%</i>		<i>70-130</i>		06/05/24	06/05/24
<i>1,2-Dichloroethane-d4</i>	<i>101%</i>		<i>70-130</i>		06/05/24	06/05/24
<i>Toluene-d8</i>	<i>95.3%</i>		<i>70-130</i>		06/05/24	06/05/24

Results: Volatile Organic Compounds 8260C (5035-HL)**Sample: HA-9****Lab Number: 4F04116-04 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		2630	ug/kg	06/05/24	06/05/24
Benzene	ND		53	ug/kg	06/05/24	06/05/24
Bromobenzene	ND		53	ug/kg	06/05/24	06/05/24
Bromochloromethane	ND		53	ug/kg	06/05/24	06/05/24
Bromodichloromethane	ND		53	ug/kg	06/05/24	06/05/24
Bromoform	ND		53	ug/kg	06/05/24	06/05/24
Bromomethane	ND		53	ug/kg	06/05/24	06/05/24
2-Butanone	ND		1310	ug/kg	06/05/24	06/05/24
tert-Butyl alcohol	ND		263	ug/kg	06/05/24	06/05/24
sec-Butylbenzene	ND		53	ug/kg	06/05/24	06/05/24
n-Butylbenzene	ND		53	ug/kg	06/05/24	06/05/24
tert-Butylbenzene	ND		53	ug/kg	06/05/24	06/05/24
Methyl t-butyl ether (MTBE)	ND		53	ug/kg	06/05/24	06/05/24
Carbon Disulfide	ND		53	ug/kg	06/05/24	06/05/24
Carbon Tetrachloride	ND		53	ug/kg	06/05/24	06/05/24
Chlorobenzene	ND		53	ug/kg	06/05/24	06/05/24
Chloroethane	ND		53	ug/kg	06/05/24	06/05/24
Chloroform	ND		53	ug/kg	06/05/24	06/05/24
Chloromethane	ND		53	ug/kg	06/05/24	06/05/24
4-Chlorotoluene	ND		53	ug/kg	06/05/24	06/05/24
2-Chlorotoluene	ND		53	ug/kg	06/05/24	06/05/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		53	ug/kg	06/05/24	06/05/24
Dibromochloromethane	ND		53	ug/kg	06/05/24	06/05/24
1,2-Dibromoethane (EDB)	ND		53	ug/kg	06/05/24	06/05/24
Dibromomethane	ND		53	ug/kg	06/05/24	06/05/24
1,2-Dichlorobenzene	ND		53	ug/kg	06/05/24	06/05/24
1,3-Dichlorobenzene	ND		53	ug/kg	06/05/24	06/05/24
1,4-Dichlorobenzene	ND		53	ug/kg	06/05/24	06/05/24
1,1-Dichloroethane	ND		53	ug/kg	06/05/24	06/05/24
1,2-Dichloroethane	ND		53	ug/kg	06/05/24	06/05/24
trans-1,2-Dichloroethene	ND		53	ug/kg	06/05/24	06/05/24
cis-1,2-Dichloroethene	ND		53	ug/kg	06/05/24	06/05/24
1,1-Dichloroethene	ND		53	ug/kg	06/05/24	06/05/24
1,2-Dichloropropane	ND		53	ug/kg	06/05/24	06/05/24
2,2-Dichloropropane	ND		53	ug/kg	06/05/24	06/05/24
cis-1,3-Dichloropropene	ND		53	ug/kg	06/05/24	06/05/24
trans-1,3-Dichloropropene	ND		53	ug/kg	06/05/24	06/05/24
1,1-Dichloropropene	ND		53	ug/kg	06/05/24	06/05/24
1,3-Dichloropropene (cis + trans)	ND		105	ug/kg	06/05/24	06/05/24
Diethyl ether	ND		263	ug/kg	06/05/24	06/05/24
1,4-Dioxane	ND		5250	ug/kg	06/05/24	06/05/24
Ethylbenzene	ND		53	ug/kg	06/05/24	06/05/24
Hexachlorobutadiene	ND		53	ug/kg	06/05/24	06/05/24
2-Hexanone	ND		525	ug/kg	06/05/24	06/05/24
Isopropylbenzene	ND		53	ug/kg	06/05/24	06/05/24
p-Isopropyltoluene	ND		53	ug/kg	06/05/24	06/05/24
Methylene Chloride	ND		105	ug/kg	06/05/24	06/05/24

Results: Volatile Organic Compounds 8260C (5035-HL) (Continued)

Sample: HA-9 (Continued)

Lab Number: 4F04116-04 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
4-Methyl-2-pentanone	ND		368	ug/kg	06/05/24	06/05/24
Naphthalene	ND		53	ug/kg	06/05/24	06/05/24
n-Propylbenzene	ND		53	ug/kg	06/05/24	06/05/24
Styrene	ND		53	ug/kg	06/05/24	06/05/24
1,1,1,2-Tetrachloroethane	ND		53	ug/kg	06/05/24	06/05/24
Tetrachloroethene	ND		53	ug/kg	06/05/24	06/05/24
Tetrahydrofuran	ND		263	ug/kg	06/05/24	06/05/24
Toluene	ND		53	ug/kg	06/05/24	06/05/24
1,2,4-Trichlorobenzene	ND		53	ug/kg	06/05/24	06/05/24
1,2,3-Trichlorobenzene	ND		53	ug/kg	06/05/24	06/05/24
1,1,2-Trichloroethane	ND		53	ug/kg	06/05/24	06/05/24
1,1,1-Trichloroethane	ND		53	ug/kg	06/05/24	06/05/24
Trichloroethene	ND		53	ug/kg	06/05/24	06/05/24
1,2,3-Trichloropropane	ND		53	ug/kg	06/05/24	06/05/24
1,3,5-Trimethylbenzene	ND		53	ug/kg	06/05/24	06/05/24
1,2,4-Trimethylbenzene	ND		53	ug/kg	06/05/24	06/05/24
Vinyl Chloride	ND		53	ug/kg	06/05/24	06/05/24
o-Xylene	ND		53	ug/kg	06/05/24	06/05/24
m&p-Xylene	ND		105	ug/kg	06/05/24	06/05/24
Total xylenes	ND		53	ug/kg	06/05/24	06/05/24
1,1,2,2-Tetrachloroethane	ND		53	ug/kg	06/05/24	06/05/24
tert-Amyl methyl ether	ND		53	ug/kg	06/05/24	06/05/24
1,3-Dichloropropane	ND		53	ug/kg	06/05/24	06/05/24
Ethyl tert-butyl ether	ND		53	ug/kg	06/05/24	06/05/24
Diisopropyl ether	ND		53	ug/kg	06/05/24	06/05/24
Trichlorofluoromethane	ND		53	ug/kg	06/05/24	06/05/24
Dichlorodifluoromethane	ND		53	ug/kg	06/05/24	06/05/24
1,2 Dichloroethene, Total	ND		53	ug/kg	06/05/24	06/05/24

Surrogate(s)	Recovery%	Limits	Date Prepared	Date Analyzed
<i>4-Bromofluorobenzene</i>	<i>94.3%</i>	<i>70-130</i>	06/05/24	06/05/24
<i>1,2-Dichloroethane-d4</i>	<i>97.6%</i>	<i>70-130</i>	06/05/24	06/05/24
<i>Toluene-d8</i>	<i>95.4%</i>	<i>70-130</i>	06/05/24	06/05/24

Results: Semivolatile organic compounds (PAH only)**Sample: HA-6****Lab Number: 4F04116-01 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
2-Methylnaphthalene	ND		3460	ug/kg	06/05/24	06/05/24
Acenaphthene	ND		3460	ug/kg	06/05/24	06/05/24
Acenaphthylene	ND		3460	ug/kg	06/05/24	06/05/24
Anthracene	ND		3460	ug/kg	06/05/24	06/05/24
Benzo(a)anthracene	ND		3460	ug/kg	06/05/24	06/05/24
Benzo(a)pyrene	ND		3460	ug/kg	06/05/24	06/05/24
Benzo(b)fluoranthene	ND		3460	ug/kg	06/05/24	06/05/24
Benzo(g,h,i)perylene	ND		3460	ug/kg	06/05/24	06/05/24
Benzo(k)fluoranthene	ND		3460	ug/kg	06/05/24	06/05/24
Chrysene	ND		3460	ug/kg	06/05/24	06/05/24
Dibenz(a,h)anthracene	ND		3460	ug/kg	06/05/24	06/05/24
Dibenzofuran	ND		3460	ug/kg	06/05/24	06/05/24
Fluoranthene	ND		3460	ug/kg	06/05/24	06/05/24
Fluorene	ND		3460	ug/kg	06/05/24	06/05/24
Indeno(1,2,3-cd)pyrene	ND		3460	ug/kg	06/05/24	06/05/24
Naphthalene	ND		3460	ug/kg	06/05/24	06/05/24
Phenanthrene	ND		3460	ug/kg	06/05/24	06/05/24
Pyrene	ND		3460	ug/kg	06/05/24	06/05/24
Surrogate(s)	Recovery%		Limits			
<i>Nitrobenzene-d5</i>	58.0%		30-126		06/05/24	06/05/24
<i>p-Terphenyl-d14</i>	89.5%		47-130		06/05/24	06/05/24
<i>2-Fluorobiphenyl</i>	75.5%		34-130		06/05/24	06/05/24

Results: Semivolatile organic compounds (PAH only)**Sample: HA-7****Lab Number: 4F04116-02 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
2-Methylnaphthalene	ND		3050	ug/kg	06/05/24	06/05/24
Acenaphthene	ND		3050	ug/kg	06/05/24	06/05/24
Acenaphthylene	ND		3050	ug/kg	06/05/24	06/05/24
Anthracene	ND		3050	ug/kg	06/05/24	06/05/24
Benzo(a)anthracene	ND		3050	ug/kg	06/05/24	06/05/24
Benzo(a)pyrene	ND		3050	ug/kg	06/05/24	06/05/24
Benzo(b)fluoranthene	ND		3050	ug/kg	06/05/24	06/05/24
Benzo(g,h,i)perylene	ND		3050	ug/kg	06/05/24	06/05/24
Benzo(k)fluoranthene	ND		3050	ug/kg	06/05/24	06/05/24
Chrysene	ND		3050	ug/kg	06/05/24	06/05/24
Dibenz(a,h)anthracene	ND		3050	ug/kg	06/05/24	06/05/24
Dibenzofuran	ND		3050	ug/kg	06/05/24	06/05/24
Fluoranthene	ND		3050	ug/kg	06/05/24	06/05/24
Fluorene	ND		3050	ug/kg	06/05/24	06/05/24
Indeno(1,2,3-cd)pyrene	ND		3050	ug/kg	06/05/24	06/05/24
Naphthalene	ND		3050	ug/kg	06/05/24	06/05/24
Phenanthrene	ND		3050	ug/kg	06/05/24	06/05/24
Pyrene	ND		3050	ug/kg	06/05/24	06/05/24
Surrogate(s)	Recovery%		Limits			
<i>Nitrobenzene-d5</i>	71.2%		30-126		06/05/24	06/05/24
<i>p-Terphenyl-d14</i>	97.6%		47-130		06/05/24	06/05/24
<i>2-Fluorobiphenyl</i>	78.0%		34-130		06/05/24	06/05/24

Results: Semivolatile organic compounds (PAH only)

Sample: HA-8

Lab Number: 4F04116-03 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
2-Methylnaphthalene	ND		1460	ug/kg	06/05/24	06/05/24
Acenaphthene	ND		1460	ug/kg	06/05/24	06/05/24
Acenaphthylene	ND		1460	ug/kg	06/05/24	06/05/24
Anthracene	ND		1460	ug/kg	06/05/24	06/05/24
Benzo(a)anthracene	ND		1460	ug/kg	06/05/24	06/05/24
Benzo(a)pyrene	ND		1460	ug/kg	06/05/24	06/05/24
Benzo(b)fluoranthene	ND		1460	ug/kg	06/05/24	06/05/24
Benzo(g,h,i)perylene	ND		1460	ug/kg	06/05/24	06/05/24
Benzo(k)fluoranthene	ND		1460	ug/kg	06/05/24	06/05/24
Chrysene	ND		1460	ug/kg	06/05/24	06/05/24
Dibenz(a,h)anthracene	ND		1460	ug/kg	06/05/24	06/05/24
Dibenzofuran	ND		1460	ug/kg	06/05/24	06/05/24
Fluoranthene	1820		1460	ug/kg	06/05/24	06/05/24
Fluorene	ND		1460	ug/kg	06/05/24	06/05/24
Indeno(1,2,3-cd)pyrene	ND		1460	ug/kg	06/05/24	06/05/24
Naphthalene	ND		1460	ug/kg	06/05/24	06/05/24
Phenanthrene	ND		1460	ug/kg	06/05/24	06/05/24
Pyrene	2100		1460	ug/kg	06/05/24	06/05/24
Surrogate(s)	Recovery%		Limits			
<i>Nitrobenzene-d5</i>	50.2%		30-126		06/05/24	06/05/24
<i>p-Terphenyl-d14</i>	85.2%		47-130		06/05/24	06/05/24
<i>2-Fluorobiphenyl</i>	80.4%		34-130		06/05/24	06/05/24

Results: Semivolatile organic compounds (PAH only)

Sample: HA-9

Lab Number: 4F04116-04 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
2-Methylnaphthalene	ND		3330	ug/kg	06/05/24	06/05/24
Acenaphthene	ND		3330	ug/kg	06/05/24	06/05/24
Acenaphthylene	ND		3330	ug/kg	06/05/24	06/05/24
Anthracene	ND		3330	ug/kg	06/05/24	06/05/24
Benzo(a)anthracene	ND		3330	ug/kg	06/05/24	06/05/24
Benzo(a)pyrene	ND		3330	ug/kg	06/05/24	06/05/24
Benzo(b)fluoranthene	ND		3330	ug/kg	06/05/24	06/05/24
Benzo(g,h,i)perylene	ND		3330	ug/kg	06/05/24	06/05/24
Benzo(k)fluoranthene	ND		3330	ug/kg	06/05/24	06/05/24
Chrysene	ND		3330	ug/kg	06/05/24	06/05/24
Dibenz(a,h)anthracene	ND		3330	ug/kg	06/05/24	06/05/24
Dibenzofuran	ND		3330	ug/kg	06/05/24	06/05/24
Fluoranthene	ND		3330	ug/kg	06/05/24	06/05/24
Fluorene	ND		3330	ug/kg	06/05/24	06/05/24
Indeno(1,2,3-cd)pyrene	ND		3330	ug/kg	06/05/24	06/05/24
Naphthalene	ND		3330	ug/kg	06/05/24	06/05/24
Phenanthrene	ND		3330	ug/kg	06/05/24	06/05/24
Pyrene	ND		3330	ug/kg	06/05/24	06/05/24
Surrogate(s)	Recovery%		Limits			
<i>Nitrobenzene-d5</i>	80.5%		30-126		06/05/24	06/05/24
<i>p-Terphenyl-d14</i>	97.0%		47-130		06/05/24	06/05/24
<i>2-Fluorobiphenyl</i>	75.5%		34-130		06/05/24	06/05/24

Results: Total Petroleum Hydrocarbons**Sample: HA-6****Lab Number: 4F04116-01 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Total Petroleum Hydrocarbons	1430		142	mg/kg	06/05/24	06/05/24
Surrogate(s)	Recovery%		Limits			
<i>Chlorooctadecane</i>	<i>103%</i>		<i>50-130</i>		06/05/24	06/05/24

Results: Total Petroleum Hydrocarbons**Sample: HA-7****Lab Number: 4F04116-02 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Total Petroleum Hydrocarbons	1760		152	mg/kg	06/05/24	06/05/24
Surrogate(s)	Recovery%		Limits			
<i>Chlorooctadecane</i>	<i>110%</i>		<i>50-130</i>		06/05/24	06/05/24

Results: Total Petroleum Hydrocarbons**Sample: HA-8****Lab Number: 4F04116-03 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Total Petroleum Hydrocarbons	9280		289	mg/kg	06/05/24	06/06/24
Surrogate(s)	Recovery%		Limits			
<i>Chlorooctadecane</i>	<i>72.4%</i>		<i>50-130</i>		06/05/24	06/06/24

Results: Total Petroleum Hydrocarbons**Sample: HA-9****Lab Number: 4F04116-04 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Total Petroleum Hydrocarbons	1240		276	mg/kg	06/05/24	06/06/24
Surrogate(s)	Recovery%		Limits			
<i>Chlorooctadecane</i>	<i>66.4%</i>		<i>50-130</i>		06/05/24	06/06/24

Quality Control

Volatile Organic Compounds 8260C (5035-HL)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4F0195 - Purge-Trap										
Blank (B4F0195-BLK1)					Prepared & Analyzed: 06/05/24					
Acetone	ND		2500	ug/kg						
Benzene	ND		50	ug/kg						
Bromobenzene	ND		50	ug/kg						
Bromochloromethane	ND		50	ug/kg						
Bromodichloromethane	ND		50	ug/kg						
Bromoform	ND		50	ug/kg						
Bromomethane	ND		50	ug/kg						
2-Butanone	ND		1250	ug/kg						
tert-Butyl alcohol	ND		250	ug/kg						
sec-Butylbenzene	ND		50	ug/kg						
n-Butylbenzene	ND		50	ug/kg						
tert-Butylbenzene	ND		50	ug/kg						
Methyl t-butyl ether (MTBE)	ND		50	ug/kg						
Carbon Disulfide	ND		50	ug/kg						
Carbon Tetrachloride	ND		50	ug/kg						
Chlorobenzene	ND		50	ug/kg						
Chloroethane	ND		50	ug/kg						
Chloroform	ND		50	ug/kg						
Chloromethane	ND		50	ug/kg						
4-Chlorotoluene	ND		50	ug/kg						
2-Chlorotoluene	ND		50	ug/kg						
1,2-Dibromo-3-chloropropane (DBCP)	ND		50	ug/kg						
Dibromochloromethane	ND		50	ug/kg						
1,2-Dibromoethane (EDB)	ND		50	ug/kg						
Dibromomethane	ND		50	ug/kg						
1,2-Dichlorobenzene	ND		50	ug/kg						
1,3-Dichlorobenzene	ND		50	ug/kg						
1,4-Dichlorobenzene	ND		50	ug/kg						
1,1-Dichloroethane	ND		50	ug/kg						
1,2-Dichloroethane	ND		50	ug/kg						
trans-1,2-Dichloroethene	ND		50	ug/kg						
cis-1,2-Dichloroethene	ND		50	ug/kg						
1,1-Dichloroethene	ND		50	ug/kg						
1,2-Dichloropropane	ND		50	ug/kg						
2,2-Dichloropropane	ND		50	ug/kg						
cis-1,3-Dichloropropene	ND		50	ug/kg						
trans-1,3-Dichloropropene	ND		50	ug/kg						
1,1-Dichloropropene	ND		50	ug/kg						
1,3-Dichloropropene (cis + trans)	ND		100	ug/kg						
Diethyl ether	ND		250	ug/kg						
1,4-Dioxane	ND		5000	ug/kg						
Ethylbenzene	ND		50	ug/kg						
Hexachlorobutadiene	ND		50	ug/kg						
2-Hexanone	ND		500	ug/kg						
Isopropylbenzene	ND		50	ug/kg						
p-Isopropyltoluene	ND		50	ug/kg						
Methylene Chloride	ND		100	ug/kg						
4-Methyl-2-pentanone	ND		350	ug/kg						
Naphthalene	ND		50	ug/kg						
n-Propylbenzene	ND		50	ug/kg						
Styrene	ND		50	ug/kg						
1,1,1,2-Tetrachloroethane	ND		50	ug/kg						
Tetrachloroethene	ND		50	ug/kg						
Tetrahydrofuran	ND		250	ug/kg						

Quality Control
(Continued)

Volatile Organic Compounds 8260C (5035-HL) (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4F0195 - Purge-Trap (Continued)										
Blank (B4F0195-BLK1)					Prepared & Analyzed: 06/05/24					
Toluene	ND		50	ug/kg						
1,2,4-Trichlorobenzene	ND		50	ug/kg						
1,2,3-Trichlorobenzene	ND		50	ug/kg						
1,1,2-Trichloroethane	ND		50	ug/kg						
1,1,1-Trichloroethane	ND		50	ug/kg						
Trichloroethene	ND		50	ug/kg						
1,2,3-Trichloropropane	ND		50	ug/kg						
1,3,5-Trimethylbenzene	ND		50	ug/kg						
1,2,4-Trimethylbenzene	ND		50	ug/kg						
Vinyl Chloride	ND		50	ug/kg						
o-Xylene	ND		50	ug/kg						
m&p-Xylene	ND		100	ug/kg						
Total xylenes	ND		50	ug/kg						
1,1,2,2-Tetrachloroethane	ND		50	ug/kg						
tert-Amyl methyl ether	ND		50	ug/kg						
1,3-Dichloropropane	ND		50	ug/kg						
Ethyl tert-butyl ether	ND		50	ug/kg						
Diisopropyl ether	ND		50	ug/kg						
Trichlorofluoromethane	ND		50	ug/kg						
Dichlorodifluoromethane	ND		50	ug/kg						
1,2 Dichloroethene, Total	ND		50	ug/kg						
<hr/>										
<i>Surrogate: 4-Bromofluorobenzene</i>			47.6	ug/l	50.0		95.3	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>			49.1	ug/l	50.0		98.2	70-130		
<i>Surrogate: Toluene-d8</i>			47.5	ug/l	50.0		94.9	70-130		
<hr/>										
LCS (B4F0195-BS1)					Prepared & Analyzed: 06/05/24					
Acetone	2030		2500	ug/kg	2500		81.0	50-150		
Benzene	2450		50	ug/kg	2500		97.8	70-130		
Bromobenzene	2220		50	ug/kg	2500		88.7	70-130		
Bromochloromethane	2200		50	ug/kg	2500		88.2	70-130		
Bromodichloromethane	2130		50	ug/kg	2500		85.1	70-130		
Bromoform	1900		50	ug/kg	2500		76.1	70-130		
Bromomethane	2990		50	ug/kg	2500		120	50-150		
2-Butanone	2260		1250	ug/kg	2500		90.5	50-150		
tert-Butyl alcohol	2110		250	ug/kg	2500		84.3	70-130		
sec-Butylbenzene	2570		50	ug/kg	2500		103	70-130		
n-Butylbenzene	3040		50	ug/kg	2500		121	70-130		
tert-Butylbenzene	2360		50	ug/kg	2500		94.2	70-130		
Methyl t-butyl ether (MTBE)	2560		50	ug/kg	2500		103	70-130		
Carbon Disulfide	3220		50	ug/kg	2500		129	70-130		
Carbon Tetrachloride	1920		50	ug/kg	2500		76.9	70-130		
Chlorobenzene	2500		50	ug/kg	2500		100	70-130		
Chloroethane	3000		50	ug/kg	2500		120	50-150		
Chloroform	2370		50	ug/kg	2500		94.6	70-130		
Chloromethane	3300		50	ug/kg	2500		132	50-150		
4-Chlorotoluene	2420		50	ug/kg	2500		96.7	70-130		
2-Chlorotoluene	2670		50	ug/kg	2500		107	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	2360		50	ug/kg	2500		94.3	70-130		
Dibromochloromethane	1930		50	ug/kg	2500		77.1	70-130		
1,2-Dibromoethane (EDB)	2130		50	ug/kg	2500		85.1	70-130		
Dibromomethane	2170		50	ug/kg	2500		86.9	70-130		
1,2-Dichlorobenzene	2530		50	ug/kg	2500		101	70-130		
1,3-Dichlorobenzene	2270		50	ug/kg	2500		90.7	70-130		
1,4-Dichlorobenzene	2560		50	ug/kg	2500		102	70-130		
1,1-Dichloroethane	2390		50	ug/kg	2500		95.7	70-130		
1,2-Dichloroethane	2290		50	ug/kg	2500		91.7	70-130		
trans-1,2-Dichloroethene	2420		50	ug/kg	2500		96.7	70-130		

Quality Control
(Continued)

Volatile Organic Compounds 8260C (5035-HL) (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4F0195 - Purge-Trap (Continued)					Prepared & Analyzed: 06/05/24					
LCS (B4F0195-BS1)										
cis-1,2-Dichloroethene	2320		50	ug/kg	2500		92.9	70-130		
1,1-Dichloroethene	2860		50	ug/kg	2500		114	70-130		
1,2-Dichloropropane	2450		50	ug/kg	2500		98.0	70-130		
2,2-Dichloropropane	2130		50	ug/kg	2500		85.0	70-130		
cis-1,3-Dichloropropene	2100		50	ug/kg	2500		84.0	70-130		
trans-1,3-Dichloropropene	2010		50	ug/kg	2500		80.3	70-130		
1,1-Dichloropropene	2140		50	ug/kg	2500		85.7	70-130		
Diethyl ether	2870		250	ug/kg	2500		115	70-130		
1,4-Dioxane	12000		5000	ug/kg	12500		96.3	0-200		
Ethylbenzene	2620		50	ug/kg	2500		105	70-130		
Hexachlorobutadiene	2370		50	ug/kg	2500		94.9	70-130		
2-Hexanone	2260		500	ug/kg	2500		90.4	50-150		
Isopropylbenzene	2450		50	ug/kg	2500		97.9	70-130		
p-Isopropyltoluene	2450		50	ug/kg	2500		98.1	70-130		
Methylene Chloride	2230		100	ug/kg	2500		89.0	60-140		
4-Methyl-2-pentanone	2870		350	ug/kg	2500		115	50-150		
Naphthalene	2830		50	ug/kg	2500		113	70-130		
n-Propylbenzene	2860		50	ug/kg	2500		114	70-130		
Styrene	2290		50	ug/kg	2500		91.7	70-130		
1,1,1,2-Tetrachloroethane	2060		50	ug/kg	2500		82.3	70-130		
Tetrachloroethene	2080		50	ug/kg	2500		83.0	70-130		
Tetrahydrofuran	2660		250	ug/kg	2500		107	70-130		
Toluene	2330		50	ug/kg	2500		93.2	70-130		
1,2,4-Trichlorobenzene	2460		50	ug/kg	2500		98.5	70-130		
1,2,3-Trichlorobenzene	2550		50	ug/kg	2500		102	70-130		
1,1,2-Trichloroethane	2140		50	ug/kg	2500		85.5	70-130		
1,1,1-Trichloroethane	2160		50	ug/kg	2500		86.5	70-130		
Trichloroethene	2280		50	ug/kg	2500		91.4	70-130		
1,2,3-Trichloropropane	2520		50	ug/kg	2500		101	70-130		
1,3,5-Trimethylbenzene	2390		50	ug/kg	2500		95.7	70-130		
1,2,4-Trimethylbenzene	2440		50	ug/kg	2500		97.4	70-130		
Vinyl Chloride	3250		50	ug/kg	2500		130	50-150		
o-Xylene	2270		50	ug/kg	2500		90.9	70-130		
m&p-Xylene	4490		100	ug/kg	5000		89.9	70-130		
1,1,2,2-Tetrachloroethane	2830		50	ug/kg	2500		113	70-130		
tert-Amyl methyl ether	2620		50	ug/kg	2500		105	70-130		
1,3-Dichloropropane	2320		50	ug/kg	2500		92.8	70-130		
Ethyl tert-butyl ether	2640		50	ug/kg	2500		106	70-130		
Diisopropyl ether	2760		50	ug/kg	2500		110	70-130		
Trichlorofluoromethane	3250		50	ug/kg	2500		130	50-150		
Dichlorodifluoromethane	4100		50	ug/kg	2500		164	50-150		
<i>Surrogate: 4-Bromofluorobenzene</i>			50.2	ug/l	50.0		100	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>			48.8	ug/l	50.0		97.7	70-130		
<i>Surrogate: Toluene-d8</i>			48.0	ug/l	50.0		96.0	70-130		

Quality Control
(Continued)

Volatile Organic Compounds 8260C (5035-HL) (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4F0195 - Purge-Trap (Continued)					Prepared & Analyzed: 06/05/24					
LCS Dup (B4F0195-BSD1)										
Acetone	2400		2500	ug/kg	2500		96.1	50-150	17.0	30
Benzene	2300		50	ug/kg	2500		92.1	70-130	6.02	30
Bromobenzene	2090		50	ug/kg	2500		83.6	70-130	6.01	30
Bromochloromethane	2150		50	ug/kg	2500		86.0	70-130	2.50	30
Bromodichloromethane	1970		50	ug/kg	2500		79.0	70-130	7.48	30
Bromoform	1900		50	ug/kg	2500		75.9	70-130	0.290	30
Bromomethane	2680		50	ug/kg	2500		107	50-150	11.1	30
2-Butanone	2500		1250	ug/kg	2500		99.8	50-150	9.80	30
tert-Butyl alcohol	2360		250	ug/kg	2500		94.5	70-130	11.4	30
sec-Butylbenzene	2310		50	ug/kg	2500		92.5	70-130	10.4	30
n-Butylbenzene	2710		50	ug/kg	2500		108	70-130	11.4	30
tert-Butylbenzene	2180		50	ug/kg	2500		87.2	70-130	7.78	30
Methyl t-butyl ether (MTBE)	2510		50	ug/kg	2500		100	70-130	2.15	30
Carbon Disulfide	2940		50	ug/kg	2500		118	70-130	9.21	30
Carbon Tetrachloride	1860		50	ug/kg	2500		74.5	70-130	3.17	30
Chlorobenzene	2360		50	ug/kg	2500		94.2	70-130	6.15	30
Chloroethane	2560		50	ug/kg	2500		102	50-150	15.7	30
Chloroform	2210		50	ug/kg	2500		88.4	70-130	6.84	30
Chloromethane	2970		50	ug/kg	2500		119	50-150	10.7	30
4-Chlorotoluene	2250		50	ug/kg	2500		89.9	70-130	7.20	30
2-Chlorotoluene	2460		50	ug/kg	2500		98.5	70-130	8.18	30
1,2-Dibromo-3-chloropropane (DBCP)	2330		50	ug/kg	2500		93.1	70-130	1.30	30
Dibromochloromethane	1890		50	ug/kg	2500		75.7	70-130	1.81	30
1,2-Dibromoethane (EDB)	2090		50	ug/kg	2500		83.8	70-130	1.56	30
Dibromomethane	2120		50	ug/kg	2500		85.0	70-130	2.19	30
1,2-Dichlorobenzene	2330		50	ug/kg	2500		93.1	70-130	8.32	30
1,3-Dichlorobenzene	2120		50	ug/kg	2500		84.7	70-130	6.79	30
1,4-Dichlorobenzene	2380		50	ug/kg	2500		95.3	70-130	7.18	30
1,1-Dichloroethane	2250		50	ug/kg	2500		89.9	70-130	6.29	30
1,2-Dichloroethane	2260		50	ug/kg	2500		90.3	70-130	1.63	30
trans-1,2-Dichloroethene	2280		50	ug/kg	2500		91.2	70-130	5.83	30
cis-1,2-Dichloroethene	2180		50	ug/kg	2500		87.1	70-130	6.49	30
1,1-Dichloroethene	2640		50	ug/kg	2500		106	70-130	7.85	30
1,2-Dichloropropane	2360		50	ug/kg	2500		94.5	70-130	3.68	30
2,2-Dichloropropane	1920		50	ug/kg	2500		76.9	70-130	9.98	30
cis-1,3-Dichloropropene	2010		50	ug/kg	2500		80.3	70-130	4.50	30
trans-1,3-Dichloropropene	1980		50	ug/kg	2500		79.4	70-130	1.13	30
1,1-Dichloropropene	1950		50	ug/kg	2500		77.9	70-130	9.56	30
Diethyl ether	2760		250	ug/kg	2500		111	70-130	3.85	30
1,4-Dioxane	13600		5000	ug/kg	12500		109	0-200	12.3	40
Ethylbenzene	2450		50	ug/kg	2500		98.0	70-130	6.59	30
Hexachlorobutadiene	2090		50	ug/kg	2500		83.8	70-130	12.4	30
2-Hexanone	2320		500	ug/kg	2500		92.7	50-150	2.42	30
Isopropylbenzene	2270		50	ug/kg	2500		90.9	70-130	7.44	30
p-Isopropyltoluene	2230		50	ug/kg	2500		89.3	70-130	9.37	30
Methylene Chloride	2200		100	ug/kg	2500		88.0	60-140	1.13	30
4-Methyl-2-pentanone	2640		350	ug/kg	2500		106	50-150	8.27	30
Naphthalene	2600		50	ug/kg	2500		104	70-130	8.63	30
n-Propylbenzene	2610		50	ug/kg	2500		104	70-130	9.16	30
Styrene	2160		50	ug/kg	2500		86.6	70-130	5.75	30
1,1,1,2-Tetrachloroethane	1980		50	ug/kg	2500		79.1	70-130	4.02	30
Tetrachloroethene	1930		50	ug/kg	2500		77.2	70-130	7.31	30
Tetrahydrofuran	2680		250	ug/kg	2500		107	70-130	0.785	30
Toluene	2190		50	ug/kg	2500		87.7	70-130	6.10	30
1,2,4-Trichlorobenzene	2320		50	ug/kg	2500		93.0	70-130	5.81	30
1,2,3-Trichlorobenzene	2320		50	ug/kg	2500		92.6	70-130	9.72	30
1,1,2-Trichloroethane	2040		50	ug/kg	2500		81.7	70-130	4.50	30

Quality Control

(Continued)

Volatile Organic Compounds 8260C (5035-HL) (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4F0195 - Purge-Trap (Continued)										
LCS Dup (B4F0195-BSD1)					Prepared & Analyzed: 06/05/24					
1,1,1-Trichloroethane	2070		50	ug/kg	2500		82.6	70-130	4.56	30
Trichloroethene	2160		50	ug/kg	2500		86.3	70-130	5.74	30
1,2,3-Trichloropropane	2410		50	ug/kg	2500		96.5	70-130	4.50	30
1,3,5-Trimethylbenzene	2230		50	ug/kg	2500		89.1	70-130	7.17	30
1,2,4-Trimethylbenzene	2270		50	ug/kg	2500		90.8	70-130	7.08	30
Vinyl Chloride	2930		50	ug/kg	2500		117	50-150	10.4	30
o-Xylene	2140		50	ug/kg	2500		85.5	70-130	6.12	30
m&p-Xylene	4250		100	ug/kg	5000		85.0	70-130	5.58	30
1,1,2,2-Tetrachloroethane	2670		50	ug/kg	2500		107	70-130	5.87	30
tert-Amyl methyl ether	2580		50	ug/kg	2500		103	70-130	1.42	30
1,3-Dichloropropane	2290		50	ug/kg	2500		91.7	70-130	1.13	30
Ethyl tert-butyl ether	2600		50	ug/kg	2500		104	70-130	1.51	30
Diisopropyl ether	2610		50	ug/kg	2500		104	70-130	5.72	30
Trichlorofluoromethane	2940		50	ug/kg	2500		117	50-150	10.1	30
Dichlorodifluoromethane	3770		50	ug/kg	2500		151	50-150	8.39	30
<hr style="border-top: 1px dashed black;"/>										
<i>Surrogate: 4-Bromofluorobenzene</i>			<i>50.7</i>	<i>ug/l</i>	<i>50.0</i>		<i>101</i>	<i>70-130</i>		
<i>Surrogate: 1,2-Dichloroethane-d4</i>			<i>49.8</i>	<i>ug/l</i>	<i>50.0</i>		<i>99.7</i>	<i>70-130</i>		
<i>Surrogate: Toluene-d8</i>			<i>47.8</i>	<i>ug/l</i>	<i>50.0</i>		<i>95.6</i>	<i>70-130</i>		

Quality Control
(Continued)

Total Petroleum Hydrocarbons

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4F0144 - 1_Semivolatiles Extractions										
Blank (B4F0144-BLK1)					Prepared & Analyzed: 06/05/24					
Total Petroleum Hydrocarbons	ND		27	mg/kg						

Surrogate: Chlorooctadecane			5.31	mg/kg	8.33		63.7	50-130		
LCS (B4F0144-BS1)					Prepared & Analyzed: 06/05/24					
Total Petroleum Hydrocarbons	365		27	mg/kg	667		54.7	44.7-125		

Surrogate: Chlorooctadecane			5.84	mg/kg	8.33		70.1	50-130		
LCS Dup (B4F0144-BSD1)					Prepared & Analyzed: 06/05/24					
Total Petroleum Hydrocarbons	477		27	mg/kg	667		71.6	44.7-125	26.7	30

Surrogate: Chlorooctadecane			7.15	mg/kg	8.33		85.8	50-130		

Notes and Definitions

Item	Definition
Wet	Sample results reported on a wet weight basis.
ND	Analyte NOT DETECTED at or above the reporting limit.

CHAIN OF CUSTODY RECORD



PROJ. NO.		PROJECT NAME/LOCATION				PRESERVATIVE	TESTS**	REMARKS					
09050H10		434 Allens Ave Providence, RI											
CLIENT		AQUEOUS	SOIL	OTHER	NO. OF CONTAINERS	PRESERVATIVE	TESTS**	REMARKS					
Lake Shore Environmental													
REPORT TO: Dave Harbrouck, Isabella Giacomo													
INVOICE TO: same													
DATE	TIME	COMP	GRAB	SAMPLE I.D.	AQUEOUS	SOIL	OTHER	NO. OF CONTAINERS	PRESERVATIVE	TESTS**	REMARKS		
6/3/24	10:20		✓	HA-6		✓		2	NONE, Methanol	✓	✓	✓	
	10:25			HA-7				•		✓	✓	✓	
	10:35			HA-8				•		✓	✓	✓	
	10:40			HA-9				•		✓	✓	✓	

Sampled by: (Signature) <i>Salle</i>	Date/Time 6/3/24 1:05 PM	Received by: (Signature) <i>Um M</i>	Date/Time 6/4/24 1650	Laboratory Remarks: Temp. received: 3 Cooled <input checked="" type="checkbox"/>	Special Instructions: List Specific Detection Limit Requirements: Turnaround (Business Days) 48 hr
Relinquished by: (Signature) <i>Um M</i>	Date/Time 6/4/24 1720	Received by: (Signature)	Date/Time		
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature) <i>Aryenne Tenyo</i>	Date/Time 6/4/24 1720		

**Netlab subcontracts the following tests: Radiologicals, Radon, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates, CT ETPH