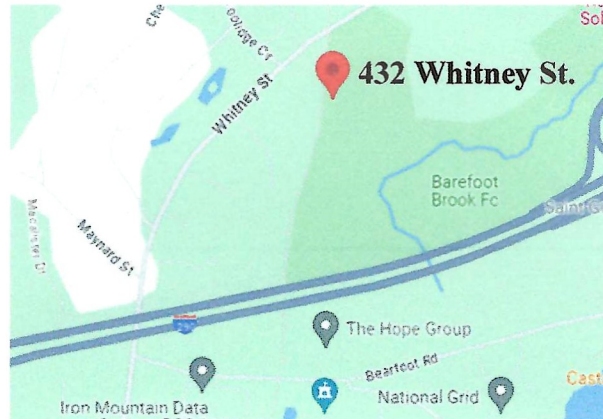




Capital Environmental, LLC

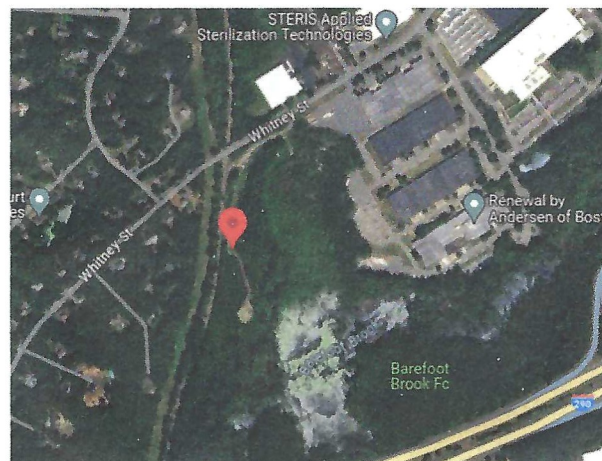
Environmental Engineers and Scientists

TO:	Mr. Scott Charpentier, PE, Town of Northborough, MA
FROM:	Mr. Robert Berger, LSP, Capital Environmental, LLC.
LOCATION:	432 Whitney Street, Northborough, MA
SUBJECT:	Test Pit Excavation and Laboratory Testing
DATE:	March 13, 2024
PROJECT #:	2554



Site Location

In accordance with the service agreement dated February 14, 2024, Capital Environmental, LLC (Capital) observed the excavation of two (2) percolation test holes and Four (4) shallow surficial test holes at the Subject Property located at 432 Whitney Street. The six points excavated and sampled for laboratory analyses were selected prior to arrival on-site.



The test points were advanced with a Town of Northborough DPW operated mini-excavator along the western portion of the property. The points were designated as TP-1, TP-2, TP-3, and TP-4 for the shallow points, and P-1 and P-2 for the percolation test holes.

46 Washburn Street, Northborough, Massachusetts 01532
(508) 393-5550 ▲ (508) 393-5567 Fax
www.capital-enviro.com

One grab sample was collected from each sampling point. Each sample was tested for Polychlorinated Biphenyls (PCBs), Extractable Petroleum Hydrocarbons (EPH) with target analytes, MassDEP Total Metals 14, Semi-Volatile Organic Compounds (SVOCs), Corrosivity, Volatile Petroleum Hydrocarbons (VPH) with target analytes, and low level Volatile Organic Compounds (VOCs). Each sample collected was also screened for total organic vapor (TOV) by the massDEP jar head-space method with a calibrated photoionization detector (PID). All field screening results were found to be 0.0 ppmv.

The following test results were obtained from the samples collected on February 29, 2024:

Table One
Soil Test Results

Sample Number	Sample Description	Sample Depth (BGS)	Test Parameter	Sample Results	MassDEP S-1 Reporting Standard
TP-1	Sand	18"	pH	5.4 SU	Non-Corrosive
			Total Metals		
			Antimony	1.02 mg/kg	20 mg/kg
			Arsenic	3.73 mg/kg	20 mg/kg
			Barium	33.9 mg/kg	1,000 mg/kg
			Beryllium	ND (<0.42 mg/kg)	90 mg/kg
			Cadmium	3.61 mg/kg	70 mg/kg
			Chromium	16.4 mg/kg	100 mg/kg
			Lead	6.09 mg/kg	200 mg/kg
			Mercury	ND (<0.102 mg/kg)	20 mg/kg
			Nickel	12.1 mg/kg	600 mg/kg
			Selenium	ND (<1.27 mg/kg)	400 mg/kg
			Silver	ND (<1.27 mg/kg)	100 mg/kg
			Vanadium	18.3 mg/kg	400 mg/kg
			Zinc	28.3 mg/kg	1,000 mg/kg
			Thallium	ND (<0.42 mg/kg)	8 mg/kg
			VOCs	All Compounds ND	--
			VPH	All Compounds ND	--
			SVOCs	All Compounds ND	--
			PCBs	All Aroclors ND	--
			EPH		
			C ₉ -C ₁₈ Aliphatic	ND (<15.1 mg/kg)	1,000 mg/kg
			C ₁₉ -C ₃₆ Aliphatic	ND (<15.1 mg/kg)	3,000 mg/kg
			C ₁₁ -C ₂₂ Aromatic	ND (<7.55 mg/kg)	1,000 mg/kg

- 1) BGS = Below Ground Surface.
- 2) 2) US EPA considers a pH of less than or equal to 2 or equal to or higher than 12.5. The pH scale has values ranging from zero (the most acidic) to 14 (the most basic). On the pH scale, pure water has a pH value of 7. This value is considered neutral—neither acidic nor basic. Normal, clean rain has a pH value of between 5.0 and 5.5, which is slightly acidic.
- 3) ND = None Detected.

Table One Continued....
Soil Test Results

Sample Number	Sample Description	Sample Depth (BGS)	Test Parameter	Sample Results	MassDEP S-1 Reporting Standard
P-1	Sand	4'	pH	5.2 SU	Non-Corrosive
			Total Metals		
			Antimony	1.04 mg/kg	20 mg/kg
			Arsenic	6.26 mg/kg	20 mg/kg
			Barium	25.8 mg/kg	1,000 mg/kg
			Beryllium	ND (<0.39 mg/kg)	90 mg/kg
			Cadmium	3.78 mg/kg	70 mg/kg
			Chromium	19.0 mg/kg	100 mg/kg
			Lead	4.95 mg/kg	200 mg/kg
			Mercury	ND (<0.113 mg/kg)	20 mg/kg
			Nickel	13.1 mg/kg	600 mg/kg
			Selenium	ND (<1.19 mg/kg)	400 mg/kg
			Silver	ND (<1.19 mg/kg)	100 mg/kg
			Vanadium	21.8 mg/kg	400 mg/kg
			Zinc	26.4 mg/kg	1,000 mg/kg
			Thallium	ND (<0.39 mg/kg)	8 mg/kg
			VOCs	All Compounds ND	--
			VPH	All Compounds ND	--
			SVOCs	All Compounds ND	--
			PCBs	All Aroclors ND	--
			EPH		
			C ₉ -C ₁₈ Aliphatic	ND (<15.5 mg/kg)	1,000 mg/kg
			C ₁₉ -C ₃₆ Aliphatic	ND (<15.5 mg/kg)	3,000 mg/kg
			C ₁₁ -C ₂₂ Aromatic	ND (<7.75 mg/kg)	1,000 mg/kg

- 1) BGS = Below Ground Surface.
- 2) 2) US EPA considers a pH of less than or equal to 2 or equal to or higher than 12.5. The pH scale has values ranging from zero (the most acidic) to 14 (the most basic). On the pH scale, pure water has a pH value of 7. This value is considered neutral—neither acidic nor basic. Normal, clean rain has a pH value of between 5.0 and 5.5, which is slightly acidic.
- 3) ND = None Detected.

Table One Continued....
Soil Test Results

Sample Number	Sample Description	Sample Depth (BGS)	Test Parameter	Sample Results	MassDEP S-1 Reporting Standard
TP-2	Leaf Compost	18"	pH	4.5 SU	Non-Corrosive
			Total Metals		
			Antimony	ND (<1.40 mg/kg)	20 mg/kg
			Arsenic	ND (2.13 mg/kg)	20 mg/kg
			Barium	58.4 mg/kg	1,000 mg/kg
			Beryllium	ND (<0.70 mg/kg)	90 mg/kg
			Cadmium	3.14 mg/kg	70 mg/kg
			Chromium	14.5 mg/kg	100 mg/kg
			Lead	22.9 mg/kg	200 mg/kg
			Mercury	ND (<0.184 mg/kg)	20 mg/kg
			Nickel	8.99 mg/kg	600 mg/kg
			Selenium	ND (<2.13 mg/kg)	400 mg/kg
			Silver	ND (<2.13 mg/kg)	100 mg/kg
			Vanadium	15.8 mg/kg	400 mg/kg
			Zinc	85.7 mg/kg	1,000 mg/kg
			Thallium	ND (<0.70 mg/kg)	8 mg/kg
			VOCs	All Compounds ND	--
			VPH	All Compounds ND	--
			SVOCs	All Compounds ND	--
			PCBs	All Aroclors ND	--
			EPH		
			C ₉ -C ₁₈ Aliphatic	ND (<25.3 mg/kg)	1,000 mg/kg
			C ₁₉ -C ₃₆ Aliphatic	ND (<25.3 mg/kg)	3,000 mg/kg
			C ₁₁ -C ₂₂ Aromatic	25.7 mg/kg	1,000 mg/kg

- 1) BGS = Below Ground Surface.
- 2) 2) US EPA considers a pH of less than or equal to 2 or equal to or higher than 12.5. The pH scale has values ranging from zero (the most acidic) to 14 (the most basic). On the pH scale, pure water has a pH value of 7. This value is considered neutral—neither acidic nor basic. Normal, clean rain has a pH value of between 5.0 and 5.5, which is slightly acidic.
- 3) ND = None Detected.

Table One Continued....
Soil Test Results

Sample Number	Sample Description	Sample Depth (BGS)	Test Parameter	Sample Results	MassDEP S-1 Reporting Standard
TP-3	Leaf Compost	18"	pH	5.3 SU	Non-Corrosive
			Total Metals		
			Antimony	ND (<3.23 mg/kg)	20 mg/kg
			Arsenic	ND (<4.89 mg/kg)	20 mg/kg
			Barium	135 mg/kg	1,000 mg/kg
			Beryllium	ND (<1.61 mg/kg)	90 mg/kg
			Cadmium	ND (<2.44 mg/kg)	70 mg/kg
			Chromium	6.28 mg/kg	100 mg/kg
			Lead	42.5 mg/kg	200 mg/kg
			Mercury	ND (<0.373 mg/kg)	20 mg/kg
			Nickel	3.42 mg/kg	600 mg/kg
			Selenium	12.9 mg/kg	400 mg/kg
			Silver	ND (<4.89 mg/kg)	100 mg/kg
			Vanadium	6.79 mg/kg	400 mg/kg
			Zinc	220 mg/kg	1,000 mg/kg
			Thallium	ND (<1.61 mg/kg)	8 mg/kg
			VOCs	All Compounds ND	--
			VPH	All Compounds ND	--
			SVOCs	All Compounds ND	--
			PCBs	All Aroclors ND	--
			EPH		
			C ₉ -C ₁₈ Aliphatic	ND (<56.2 mg/kg)	1,000 mg/kg
			C ₁₉ -C ₃₆ Aliphatic	179 mg/kg	3,000 mg/kg
			C ₁₁ -C ₂₂ Aromatic	88.5 mg/kg	1,000 mg/kg

- 1) BGS = Below Ground Surface.
- 2) 2) US EPA considers a pH of less than or equal to 2 or equal to or higher than 12.5. The pH scale has values ranging from zero (the most acidic) to 14 (the most basic). On the pH scale, pure water has a pH value of 7. This value is considered neutral—neither acidic nor basic. Normal, clean rain has a pH value of between 5.0 and 5.5, which is slightly acidic.
- 3) ND = None Detected.

Table One Continued....
Soil Test Results

Sample Number	Sample Description	Sample Depth (BGS)	Test Parameter	Sample Results	MassDEP S-1 Reporting Standard
TP-4	Leaf Compost	18"	pH	5.1 SU	Non-Corrosive
			Total Metals		
			Antimony	11.0 mg/kg	20 mg/kg
			Arsenic	ND (<4.36 mg/kg)	20 mg/kg
			Barium	67.1 mg/kg	1,000 mg/kg
			Beryllium	ND (<1.44 mg/kg)	90 mg/kg
			Cadmium	ND (<2.18 mg/kg)	70 mg/kg
			Chromium	5.45 mg/kg	100 mg/kg
			Lead	37.7 mg/kg	200 mg/kg
			Mercury	ND (<0.330 mg/kg)	20 mg/kg
			Nickel	4.17 mg/kg	600 mg/kg
			Selenium	8.81 mg/kg	400 mg/kg
			Silver	ND (<4.36 mg/kg)	100 mg/kg
			Vanadium	6.80 mg/kg	400 mg/kg
			Zinc	122 mg/kg	1,000 mg/kg
			Thallium	ND (<1.44 mg/kg)	8 mg/kg
			VOCs	All Compounds ND	--
			VPH	All Compounds ND	--
			SVOCs	All Compounds ND	--
			PCBs	All Aroclors ND	--
			EPH		
			C ₉ -C ₁₈ Aliphatic	ND (<46.6 mg/kg)	1,000 mg/kg
			C ₁₉ -C ₃₆ Aliphatic	ND (<46.6 mg/kg)	3,000 mg/kg
			C ₁₁ -C ₂₂ Aromatic	54.4 mg/kg	1,000 mg/kg

- 1) BGS = Below Ground Surface.
- 2) 2) US EPA considers a pH of less than or equal to 2 or equal to or higher than 12.5. The pH scale has values ranging from zero (the most acidic) to 14 (the most basic). On the pH scale, pure water has a pH value of 7. This value is considered neutral—neither acidic nor basic. Normal, clean rain has a pH value of between 5.0 and 5.5, which is slightly acidic.
- 3) ND = None Detected.

Table One Continued....
Soil Test Results

Sample Number	Sample Description	Sample Depth (BGS)	Test Parameter	Sample Results	MassDEP S-1 Reporting Standard
P-2	Leaf Compost	4'	pH	6.1 SU	Non-Corrosive
			Total Metals		
			Antimony	2.09 mg/kg	20 mg/kg
			Arsenic	3.77 mg/kg	20 mg/kg
			Barium	15 mg/kg	1,000 mg/kg
			Beryllium	ND (<0.47 mg/kg)	90 mg/kg
			Cadmium	3.70 mg/kg	70 mg/kg
			Chromium	17.5 mg/kg	100 mg/kg
			Lead	8.77 mg/kg	200 mg/kg
			Mercury	ND (<0.124 mg/kg)	20 mg/kg
			Nickel	10.1 mg/kg	600 mg/kg
			Selenium	ND (<1.41 mg/kg)	400 mg/kg
			Silver	ND (<1.41 mg/kg)	100 mg/kg
			Vanadium	25.9 mg/kg	400 mg/kg
			Zinc	30.3 mg/kg	1,000 mg/kg
			Thallium	ND (<0.47 mg/kg)	8 mg/kg
			VOCs	All Compounds ND	--
			VPH	All Compounds ND	--
			SVOCs	All Compounds ND	--
			PCBs	All Aroclors ND	--
			EPH		
			C ₉ -C ₁₈ Aliphatic	ND (<18.1 mg/kg)	1,000 mg/kg
			C ₁₉ -C ₃₆ Aliphatic	ND (<18.1 mg/kg)	3,000 mg/kg
			C ₁₁ -C ₂₂ Aromatic	ND (<9.07 mg/kg)	1,000 mg/kg

- 1) BGS = Below Ground Surface.
- 2) 2) US EPA considers a pH of less than or equal to 2 or equal to or higher than 12.5. The pH scale has values ranging from zero (the most acidic) to 14 (the most basic). On the pH scale, pure water has a pH value of 7. This value is considered neutral—neither acidic nor basic. Normal, clean rain has a pH value of between 5.0 and 5.5, which is slightly acidic.
- 3) ND = None Detected.

The analytical data obtained during this assessment were compared to the strictest reporting criteria listed by MassDEP in the Massachusetts Contingency Plan (MCP)(310 CMR 40.0000). The S-1 Reporting Criteria is defined as soils that are associated with the highest potential for exposure. 310 CMR 40.0933 of the MCP states:

Category S-1: Soil shall be classified as category S-1 if either: (a) the soil of concern is accessible, pursuant to 310 CMR 40.0933(4)(c)1., and either:

1. the soil is currently used for growing fruits or vegetables for human consumption, or if it is reasonably foreseeable that the soil may be put to such use; or
2. a child's frequency or intensity of use is considered to be high pursuant to 310 CMR 40.0933(4)(a) and (b); or
3. an adult's frequency and intensity of use are both considered to be high pursuant to 310 CMR 40.0933(4)(a) and (b); or (b) the soil is potentially accessible, pursuant to 310 CMR 40.0933(4)(c)2., and a child's frequency and intensity of use are both considered to be high pursuant to 310 CMR 40.0933(4)(a) and (b).

Conclusion: No sample results were for to be at or above the S-1 standards. All sample results were below S-1 standards.

Connorstone Engineering, Inc., Vito Colona, PE, was on-site to perform percolation tests within two excavation test pits designated as P-1 and P-2. These points were pre-designated prior to on-site activities.

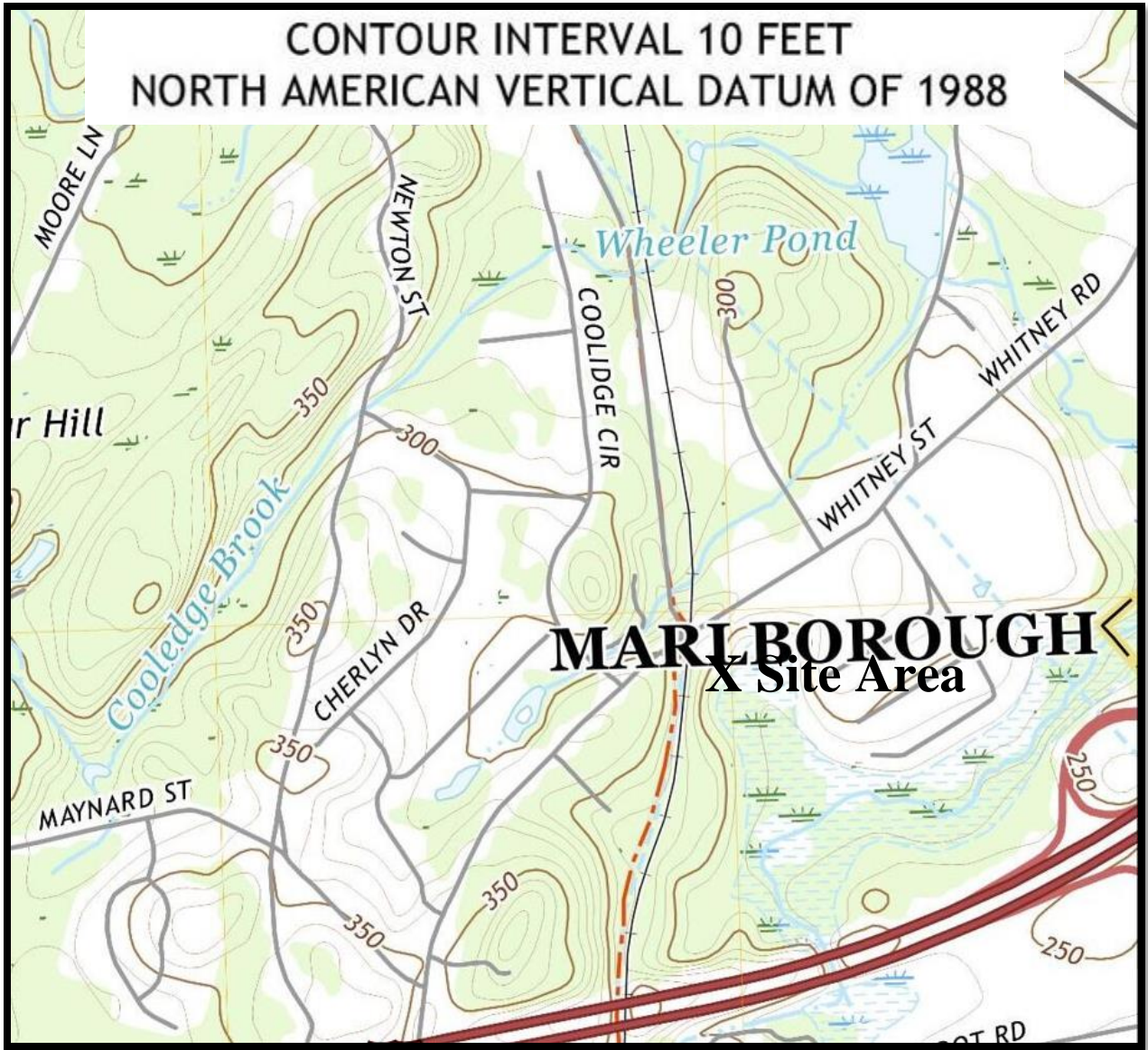
Please see the attached map for the location of all the test pits (TP) and percolation holes (P) excavated on the Subject Property.

The first percolation hole (P-1) could not be saturated during this event and was observed to be sandy loam and sand. The second percolation hole (P-2) was observed to be leaf matter and no natural sands were observed. This percolation hole (P-2) was determined based on observations not to percolate.

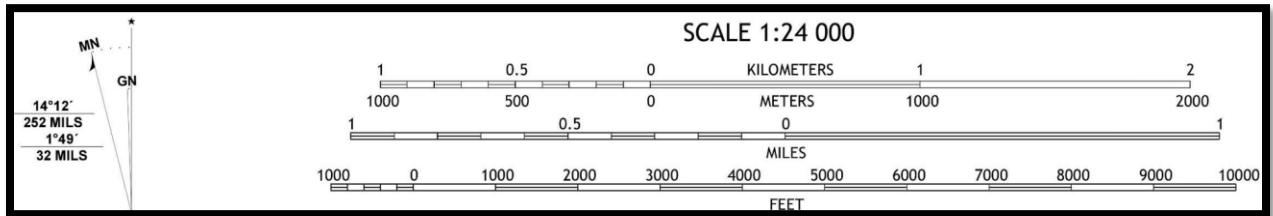
A copy of the Percolation Test documents can be found attached for review. Mr. Michael Seager of the Northborough Board of Health was on-site to observe and document these activities.

Attachments

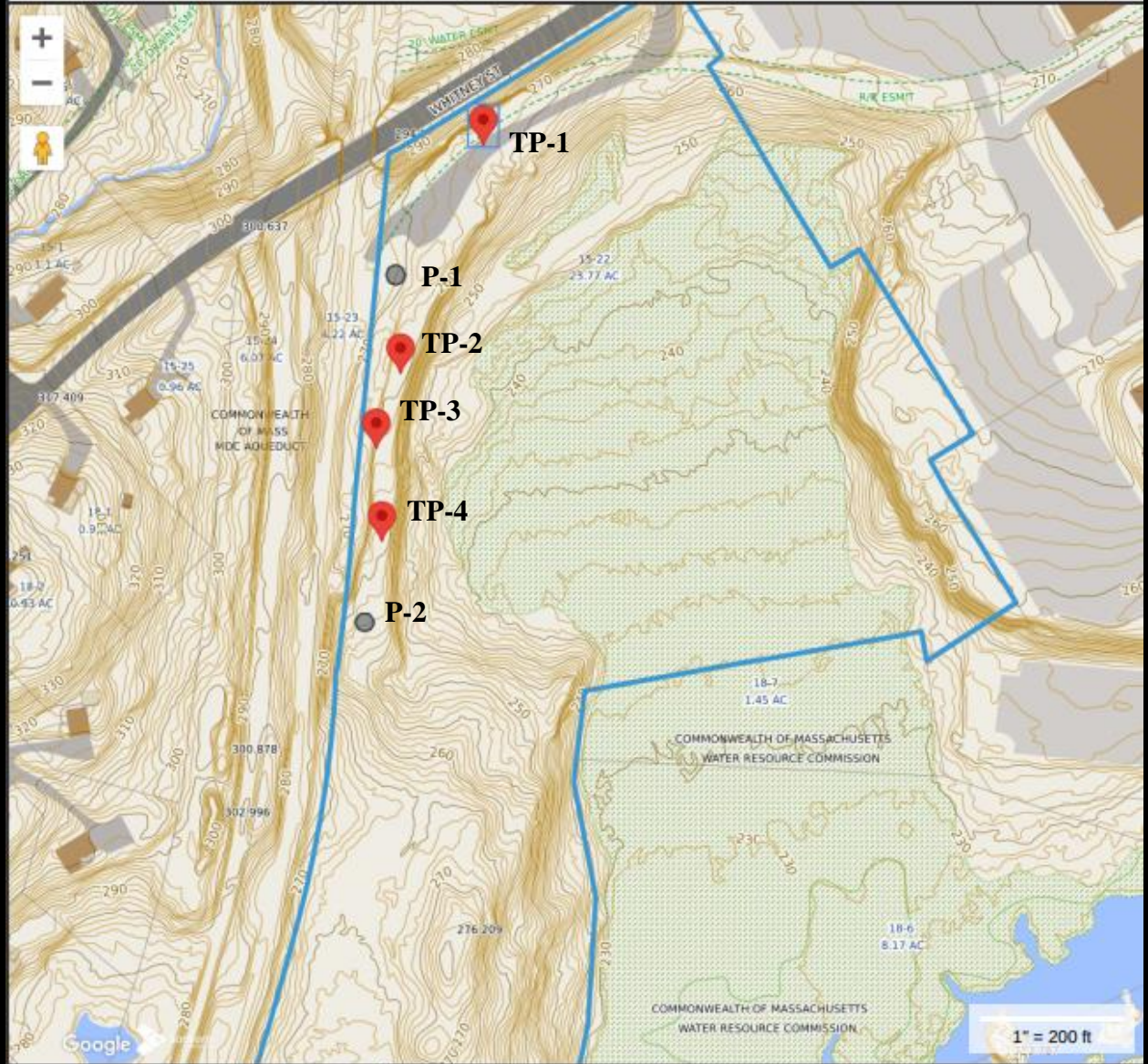
Maps



**LOCUS MAP
USGS Topography Map, Shrewsbury Quadrangle, 2021
432 Whitney Street, Northborough, MA**



Soil Sample Sketch; Circle = Perc, Flag = Hand Dug



Property Information

Property ID 015.0-0022-0000.0
Location 432 WHITNEY STREET
Owner ANZA SANTO Trustee



**MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT**

Town of Northborough, MA makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated 08/18/2023
Data updated Jan 28, 2020

Print map scale is approximate.
Critical layout or measurement
activities should not be done using
this resource.

MassDEP - Bureau of Waste Site Cleanup

Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radii

Site Information:

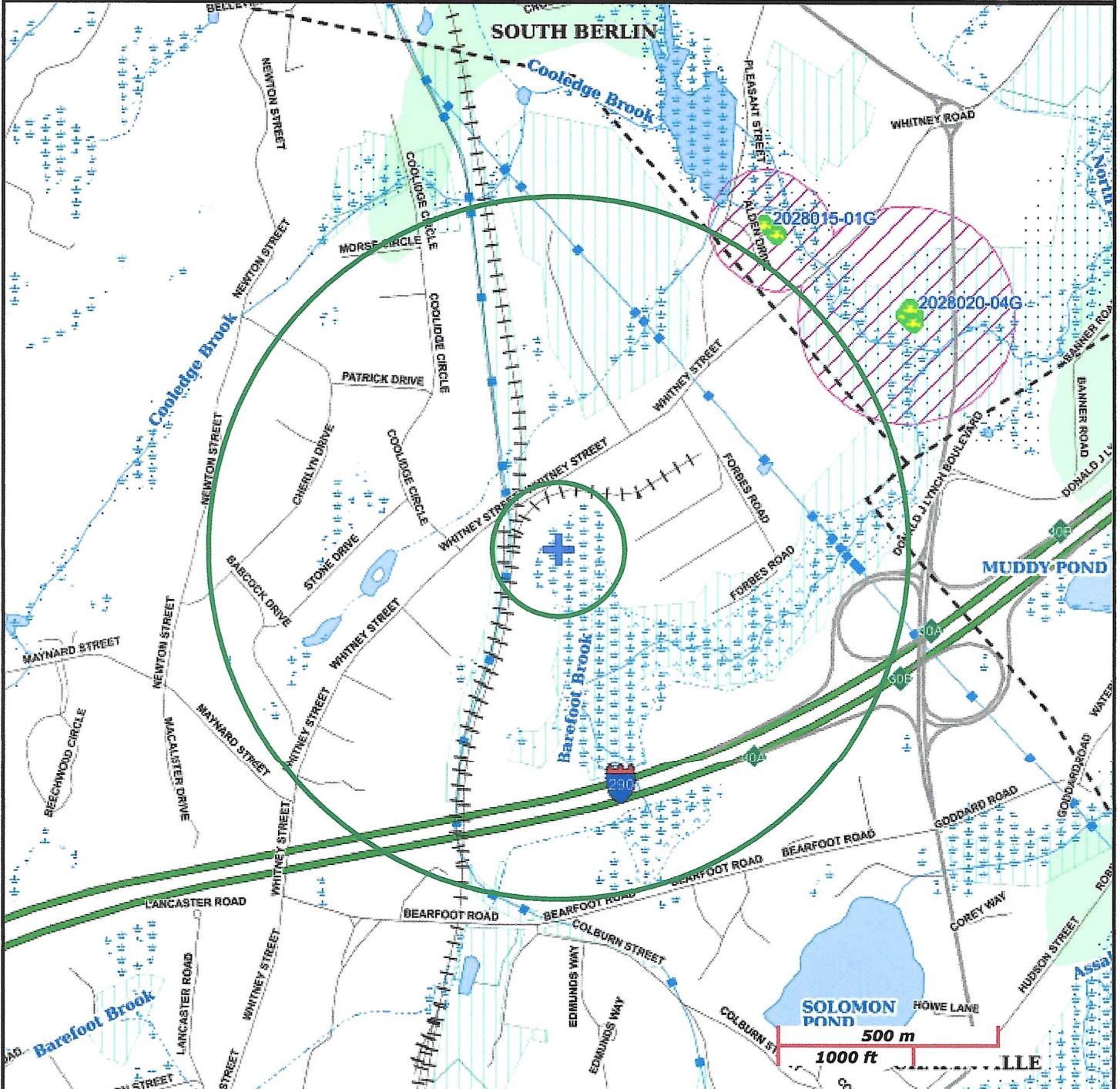
432 WHITNEY STREET NORTHBOROUGH, MA

NAD83 UTM Meters:
4691854mN , 283011mE (Zone: 19)
March 13, 2024

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at:
<https://www.mass.gov/orgs/massgis-bureau-of-geographic-information>.



MassDEP
Commonwealth of Massachusetts
Department of Environmental Protection



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail	PWS Protection Areas: Zone II, IWPA, Zone A			
Boundaries: Town, County, DEP Region; Train, Powerline; Pipeline; Aqueduct	Hydrography: Open Water, PWS Reservoir, Tidal Flat			
Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam	Wetlands: Freshwater, Saltwater, Cranberry Bog			
Aquifers: Medium Yield, High Yield, EPA Sole Source	FEMA 100yr Floodplain; Protected Open Space, ACEC			
Non Potential Drinking Water Source Area: Medium, High (Yield)	NHESP Pri-Hab of Rare Species: Vernal Pool: Cert, Potential			
	Solid Waste Landfill; PWS: Com. GW, SW, Emerg., Non-Com.			

Percolation Report



Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

A. Facility Information

Santo Anza
 Owner Name _____
 432 Whitney Street
 Street Address _____ Lot 327
 Northborough Ma 01532
 City State Zip Code _____

B. Site Information

- (Check one) New Construction Upgrade
- Soil Survey _____ 245C _____ Hinckley loamy sand
 Source Web Soil Survey Soil Map Unit Soil Series
 Esker _____
 Landform _____ Soil Limitations
 Sandy gravelly glaciofluvial deposit _____
 Soil Parent material _____
- Surficial Geological Report _____
 Year Published/Source _____ Map Unit _____

Description of Geologic Map Unit:

- Flood Rate Insurance Map _____ Within a regulatory floodway? Yes No
- Within a velocity zone? Yes No
- Within a Mapped Wetland Area? Yes No
- Current Water Resource Conditions (USGS): _____ 02/29/2024 _____
 Month/Day/ Year
- Other references reviewed: _____
 (Zone II, IWPA, Zone A, EEA Data Portal, etc.)

If yes, MassGIS Wetland Data Layer:

Wetland Type
 Normal Below Normal



Commonwealth of Massachusetts
City/Town of Northborough

Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (minimum of two holes required at every proposed primary and reserve disposal area)

Deep Observation Hole Number: A Hole # 02/29/2024 Date 9:00 AM Time Sunny 30 Weather 42.34894 Latitude -71.63517 Longitude

1. Land Use Composting Light Light Surface Stones (e.g., cobbles, stones, boulders, etc.) 5% +/- Slope (%)

Description of Location: Access road / composting area

2. Soil Parent Material: Sandy gravelly glaciofluvial deposit Esker BS Landform BS Position on Landscape (SU, SH, BS, FS, TS, Plain)

3. Distances from: Open Water Body >100 feet Drainage Way >50 feet Wetlands >50 feet
Property Line >25 feet Drinking Water Well >100 feet Other _____ feet

4. Unsuitable Materials Present: Yes No If Yes: Disturbed Soil/Fill Material Weathered/Fractured Rock Bedrock

5. Groundwater Observed: Yes No If yes: _____ Depth to Weeping in Hole _____ Depth to Standing Water in Hole _____

Soil Log

Depth (in)	Soil Horizon /Layer	Soil Texture (USDA)	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features		Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
				Depth	Color	Percent	Gravel			
0-8	Ap	Sandy Loam	10YR3/2	Cnc : Dpl:						
8-20	Bw	Sandy Loam	10YR6/8	Cnc : Dpl:						
20-72	C1	C-Sand	2.5Y5/4	Cnc : Dpl:						
				Cnc : Dpl:						
				Cnc : Dpl:						
				Cnc : Dpl:						
				Cnc : Dpl:						

Additional Notes:



**Commonwealth of Massachusetts
City/Town of Northborough**

Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (minimum of two holes required at every proposed primary and reserve disposal area)

Deep Observation Hole Number: B Hole # 02/29/2024 Date 10:30 AM Time Sunny 30 Weather 42.34894 Latitude -71.63517 Longitude

1. Land Use: Composting Light Light Surface Stones (e.g., cobbles, stones, boulders, etc.) 5% +/- Slope (%)

Description of Location: Access road / composting area Vegetation Light

2. Soil Parent Material: Sandy gravelly glaciofluvial deposit Esker BS Position on Landscape (SU, SH, BS, FS, TS, Plain)

3. Distances from: Open Water Body >100 feet Drainage Way >50 feet Wetlands >50 feet
Property Line >25 feet Drinking Water Well >100 feet Other _____ feet

4. Unsuitable Materials Present: Yes No If Yes: Disturbed Soil/Fill Material Weathered/Fractured Rock Bedrock

5. Groundwater Observed: Yes No If yes: _____ Depth to Weeping in Hole _____ Depth Standing Water in Hole _____

Soil Log

Depth (in)	Soil Horizon /Layer	Soil Texture (USDA)	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features		Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
				Depth	Color	Percent	Gravel			
0-84		Compost		Cnc : Dpl:						
84-96		Fill		Cnc : Dpl:						
				Cnc : Dpl:						
				Cnc : Dpl:						
				Cnc : Dpl:						
				Cnc : Dpl:						
				Cnc : Dpl:						

Additional Notes:



Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

D. Determination of High Groundwater Elevation

1. Method Used (Choose one):

Depth to soil redoximorphic features

Obs. Hole # A Obs. Hole # B

72 inches

96 inches

Depth to observed standing water in observation hole

_____ inches

_____ inches

Depth to adjusted seasonal high groundwater (S_h)
(USGS methodology)

_____ inches

_____ inches

Index Well Number _____

Reading Date _____

$$S_h = S_c - [S_r \times (OW_c - OW_{max}) / OW_r]$$

Obs. Hole/Well# _____ S_c _____

S_r _____

OW_c _____

OW_{max} _____

OW_r _____

S_h _____

E. Certification

I certify that I am currently approved by the Department of Environmental Protection pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017. I further certify that the results of my soil evaluation, as indicated in the attached Soil Evaluation Form, are accurate and in accordance with 310 CMR 15.100 through 15.107.

Michael Seager

Signature of Soil Evaluator

Vito Colonna SE#2811

Typed or Printed Name of Soil Evaluator / License #

Michael Seager
Name of Approving Authority Witness

Northborough Board of Health
Approving Authority

Date

3/4/21

Expiration Date of License

6/30/25

Note: In accordance with 310 CMR 15.018(2) this form must be submitted to the approving authority within 60 days of the date of field testing, and to the designer and the property owner with Percolation Test Form 12.



Commonwealth of Massachusetts
 City/Town of Northborough
Percolation Test
 Form 12

Percolation test results must be submitted with the Soil Suitability Assessment for On-site Sewage Disposal. DEP has provided this form for use by local Boards of Health. Other forms may be used, but the information must be substantially the same as that provided here. Before using this form, check with the local Board of Health to determine the form they use.

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



A. Site Information

Santo Anza
 Owner Name
432 Whitney Street
 Street Address or Lot #
Northborough Ma 01532
 City/Town State Zip Code

 Contact Person (if different from Owner) Telephone Number

B. Test Results

	<u>02/29/2024</u> Date	<u>9:44 AM</u> Time	<u>02/29/2024</u> Date	<u></u> Time
Observation Hole #	<u>A</u>		<u>B</u>	
Depth of Perc	<u>36-54"</u>		<u>No Natural Material</u>	
Start Pre-Soak	<u>9:44</u>			
End Pre-Soak	<u>Could Not Saturate</u>			
Time at 12"				
Time at 9"				
Time at 6"				
Time (9"-6")				
Rate (Min./Inch)	<u>2 MPI</u>			
	Test Passed: <input checked="" type="checkbox"/>		Test Passed: <input type="checkbox"/>	
	Test Failed: <input type="checkbox"/>		Test Failed: <input type="checkbox"/>	

Vito Colonna
 Test Performed By:
Michael Seager
 Board of Health Witness

Comments:

Laboratory Data Sheets



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

REPORT OF ANALYTICAL RESULTS

NETLAB Work Order Number: 4C01011
Client Project: 2554 - 432 Whitney St, Northborough, MA

Report Date: 11-March-2024

Prepared for:

Rob Berger
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Samples Submitted :

The samples listed below were submitted to New England Testing Laboratory on 03/01/24. 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 4C01011. Custody records are included in this report.

Lab ID	Sample	Matrix	Date Sampled	Date Received
4C01011-01	TP-1 18"	Soil	02/29/2024	03/01/2024
4C01011-02	P-1 4'	Soil	02/29/2024	03/01/2024
4C01011-03	TP-2 18"	Soil	02/29/2024	03/01/2024
4C01011-04	TP-3 18"	Soil	02/29/2024	03/01/2024
4C01011-05	TP-4"	Soil	02/29/2024	03/01/2024
4C01011-06	P-2 4'	Soil	02/29/2024	03/01/2024

Request for Analysis

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

P-1 4' (Lab Number: 4C01011-02)

	<u>Method</u>
Antimony	EPA 6010C
Arsenic	EPA 6010C
Barium	EPA 6010C
Beryllium	EPA 6010C
Cadmium	EPA 6010C
Chromium	EPA 6010C
Lead	EPA 6010C
MADEP EPH	MADEP EPH
MADEP VPH	MADEP VPH
Mercury	EPA 7471B
Nickel	EPA 6010C
PCBs	EPA 8082A
pH	SM4500-H-B (11)
Selenium	EPA 6010C
Semivolatile Organic Compounds	EPA 8270D
Silver	EPA 6010C
Thallium	EPA 6010C
Vanadium	EPA 6010C
Volatile Organic Compounds	EPA 8260C
Zinc	EPA 6010C

P-2 4' (Lab Number: 4C01011-06)

	<u>Method</u>
Antimony	EPA 6010C
Arsenic	EPA 6010C
Barium	EPA 6010C
Beryllium	EPA 6010C
Cadmium	EPA 6010C
Chromium	EPA 6010C
Lead	EPA 6010C
MADEP EPH	MADEP EPH
MADEP VPH	MADEP VPH
Mercury	EPA 7471B
Nickel	EPA 6010C
PCBs	EPA 8082A
pH	SM4500-H-B (11)
Selenium	EPA 6010C
Semivolatile Organic Compounds	EPA 8270D
Silver	EPA 6010C
Thallium	EPA 6010C
Vanadium	EPA 6010C
Volatile Organic Compounds	EPA 8260C
Zinc	EPA 6010C

TP-1 18" (Lab Number: 4C01011-01)

	<u>Method</u>
Antimony	EPA 6010C
Arsenic	EPA 6010C
Barium	EPA 6010C

Request for Analysis (continued)

TP-1 18" (Lab Number: 4C01011-01) (continued)

Beryllium
Cadmium
Chromium
Lead
MADEP EPH
MADEP VPH
Mercury
Nickel
PCBs
pH
Selenium
Semivolatile Organic Compounds
Silver
Thallium
Vanadium
Volatile Organic Compounds
Zinc

Method

EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
MADEP EPH
MADEP VPH
EPA 7471B
EPA 6010C
EPA 8082A
SM4500-H-B (11)
EPA 6010C
EPA 8270D
EPA 6010C
EPA 6010C
EPA 6010C
EPA 8260C
EPA 6010C

TP-2 18" (Lab Number: 4C01011-03)

Antimony
Arsenic
Barium
Beryllium
Cadmium
Chromium
Lead
MADEP EPH
MADEP VPH
Mercury
Nickel
PCBs
pH
Selenium
Semivolatile Organic Compounds
Silver
Thallium
Vanadium
Volatile Organic Compounds
Zinc

Method

EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
MADEP EPH
MADEP VPH
EPA 7471B
EPA 6010C
EPA 8082A
SM4500-H-B (11)
EPA 6010C
EPA 8270D
EPA 6010C
EPA 6010C
EPA 6010C
EPA 8260C
EPA 6010C

Request for Analysis (continued)

TP-3 18" (Lab Number: 4C01011-04)

	<u>Method</u>
Antimony	EPA 6010C
Arsenic	EPA 6010C
Barium	EPA 6010C
Beryllium	EPA 6010C
Cadmium	EPA 6010C
Chromium	EPA 6010C
Lead	EPA 6010C
MADEP EPH	MADEP EPH
MADEP VPH	MADEP VPH
Mercury	EPA 7471B
Nickel	EPA 6010C
PCBs	EPA 8082A
pH	SM4500-H-B (11)
Selenium	EPA 6010C
Semivolatile Organic Compounds	EPA 8270D
Silver	EPA 6010C
Thallium	EPA 6010C
Vanadium	EPA 6010C
Volatile Organic Compounds	EPA 8260C
Zinc	EPA 6010C

TP-4" (Lab Number: 4C01011-05)

	<u>Method</u>
Antimony	EPA 6010C
Arsenic	EPA 6010C
Barium	EPA 6010C
Beryllium	EPA 6010C
Cadmium	EPA 6010C
Chromium	EPA 6010C
Lead	EPA 6010C
MADEP EPH	MADEP EPH
MADEP VPH	MADEP VPH
Mercury	EPA 7471B
Nickel	EPA 6010C
PCBs	EPA 8082A
pH	SM4500-H-B (11)
Selenium	EPA 6010C
Semivolatile Organic Compounds	EPA 8270D
Silver	EPA 6010C
Thallium	EPA 6010C
Vanadium	EPA 6010C
Volatile Organic Compounds	EPA 8260C
Zinc	EPA 6010C

Method References

Method for the Determination of Extractable Petroleum Hydrocarbons, Rev. 2.1, Massachusetts Department of Environmental Protection, 2004

Method for the Determination of Volatile Petroleum Hydrocarbons, Rev. 2.1, Massachusetts Department of Environmental Protection, 2018

Standard Methods for the Examination of Water and Wastewater, 20th Edition, APHA/ AWWA-WPCF, 1998

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:

VOC 8260: Additional stirbar vials were made using the bulk material provided by the client for samples "TP-1 18" and "P-2 4' " due to matrix interference.

Results: General Chemistry

Sample: TP-1 18"
Lab Number: 4C01011-01 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
pH	5.4			SU	03/05/24	03/05/24

Results: General Chemistry

Sample: P-1 4'
Lab Number: 4C01011-02 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
pH	5.2			SU	03/05/24	03/05/24

Results: General Chemistry

Sample: TP-2 18"

Lab Number: 4C01011-03 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
pH	4.5			SU	03/05/24	03/05/24

Results: General Chemistry

Sample: TP-3 18"

Lab Number: 4C01011-04 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
pH	5.3			SU	03/05/24	03/05/24

Results: General Chemistry

Sample: TP-4"

Lab Number: 4C01011-05 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
pH	5.1			SU	03/05/24	03/05/24

Results: General Chemistry

Sample: P-2 4'
Lab Number: 4C01011-06 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
pH	6.1			SU	03/05/24	03/05/24

Results: Total Metals

Sample: TP-1 18"
Lab Number: 4C01011-01 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Antimony	1.02		0.84	mg/kg	03/04/24	03/06/24
Arsenic	3.73		1.27	mg/kg	03/04/24	03/06/24
Barium	33.9		0.42	mg/kg	03/04/24	03/06/24
Beryllium	ND		0.42	mg/kg	03/04/24	03/06/24
Cadmium	3.61		0.64	mg/kg	03/04/24	03/06/24
Chromium	16.4		0.64	mg/kg	03/04/24	03/06/24
Lead	6.09		0.64	mg/kg	03/04/24	03/06/24
Mercury	ND		0.102	mg/kg	03/04/24	03/05/24
Nickel	12.1		0.64	mg/kg	03/04/24	03/06/24
Selenium	ND		1.27	mg/kg	03/04/24	03/06/24
Silver	ND		1.27	mg/kg	03/04/24	03/06/24
Vanadium	18.3		0.42	mg/kg	03/04/24	03/06/24
Zinc	28.3		2.5	mg/kg	03/04/24	03/06/24
Thallium	ND		0.42	mg/kg	03/04/24	03/06/24

Results: Total Metals**Sample: P-1 4'****Lab Number: 4C01011-02 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Antimony	1.40		0.78	mg/kg	03/04/24	03/06/24
Arsenic	6.26		1.19	mg/kg	03/04/24	03/06/24
Barium	25.8		0.39	mg/kg	03/04/24	03/06/24
Beryllium	ND		0.39	mg/kg	03/04/24	03/06/24
Cadmium	3.78		0.59	mg/kg	03/04/24	03/06/24
Chromium	19.0		0.59	mg/kg	03/04/24	03/06/24
Lead	4.95		0.59	mg/kg	03/04/24	03/06/24
Mercury	ND		0.113	mg/kg	03/04/24	03/05/24
Nickel	13.1		0.59	mg/kg	03/04/24	03/06/24
Selenium	ND		1.19	mg/kg	03/04/24	03/06/24
Silver	ND		1.19	mg/kg	03/04/24	03/06/24
Vanadium	21.8		0.39	mg/kg	03/04/24	03/06/24
Zinc	26.4		2.4	mg/kg	03/04/24	03/06/24
Thallium	ND		0.39	mg/kg	03/04/24	03/06/24

Results: Total Metals**Sample: TP-2 18"****Lab Number: 4C01011-03 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Antimony	ND		1.40	mg/kg	03/04/24	03/06/24
Arsenic	ND		2.13	mg/kg	03/04/24	03/06/24
Barium	58.4		0.70	mg/kg	03/04/24	03/06/24
Beryllium	ND		0.70	mg/kg	03/04/24	03/06/24
Cadmium	3.14		1.06	mg/kg	03/04/24	03/06/24
Chromium	14.5		1.06	mg/kg	03/04/24	03/06/24
Lead	22.9		1.06	mg/kg	03/04/24	03/06/24
Mercury	ND		0.184	mg/kg	03/04/24	03/05/24
Nickel	8.99		1.06	mg/kg	03/04/24	03/06/24
Selenium	ND		2.13	mg/kg	03/04/24	03/06/24
Silver	ND		2.13	mg/kg	03/04/24	03/06/24
Vanadium	15.8		0.70	mg/kg	03/04/24	03/06/24
Zinc	85.7		4.3	mg/kg	03/04/24	03/06/24
Thallium	ND		0.70	mg/kg	03/04/24	03/06/24

Results: Total Metals

Sample: TP-3 18"
Lab Number: 4C01011-04 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Antimony	ND		3.23	mg/kg	03/04/24	03/06/24
Arsenic	ND		4.89	mg/kg	03/04/24	03/06/24
Barium	135		1.61	mg/kg	03/04/24	03/06/24
Beryllium	ND		1.61	mg/kg	03/04/24	03/06/24
Cadmium	ND		2.44	mg/kg	03/04/24	03/06/24
Chromium	6.28		2.44	mg/kg	03/04/24	03/06/24
Lead	42.5		2.44	mg/kg	03/04/24	03/06/24
Mercury	ND		0.373	mg/kg	03/04/24	03/05/24
Nickel	3.42		2.44	mg/kg	03/04/24	03/06/24
Selenium	12.9		4.89	mg/kg	03/04/24	03/06/24
Silver	ND		4.89	mg/kg	03/04/24	03/06/24
Vanadium	6.79		1.61	mg/kg	03/04/24	03/06/24
Zinc	220		9.8	mg/kg	03/04/24	03/06/24
Thallium	ND		1.61	mg/kg	03/04/24	03/06/24

Results: Total Metals**Sample: TP-4"****Lab Number: 4C01011-05 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Antimony	11.0		2.88	mg/kg	03/04/24	03/07/24
Arsenic	ND		4.36	mg/kg	03/04/24	03/07/24
Barium	67.1		1.44	mg/kg	03/04/24	03/07/24
Beryllium	ND		1.44	mg/kg	03/04/24	03/07/24
Cadmium	ND		2.18	mg/kg	03/04/24	03/07/24
Chromium	5.45		2.18	mg/kg	03/04/24	03/07/24
Lead	37.7		2.18	mg/kg	03/04/24	03/07/24
Mercury	ND		0.330	mg/kg	03/04/24	03/05/24
Nickel	4.17		2.18	mg/kg	03/04/24	03/07/24
Selenium	8.81		4.36	mg/kg	03/04/24	03/07/24
Silver	ND		4.36	mg/kg	03/04/24	03/07/24
Vanadium	6.80		1.44	mg/kg	03/04/24	03/07/24
Zinc	122		8.7	mg/kg	03/04/24	03/07/24
Thallium	ND		1.44	mg/kg	03/04/24	03/07/24

Results: Total Metals**Sample: P-2 4'****Lab Number: 4C01011-06 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Antimony	2.09		0.93	mg/kg	03/04/24	03/07/24
Arsenic	3.77		1.41	mg/kg	03/04/24	03/07/24
Barium	15.0		0.47	mg/kg	03/04/24	03/07/24
Beryllium	ND		0.47	mg/kg	03/04/24	03/07/24
Cadmium	3.70		0.71	mg/kg	03/04/24	03/07/24
Chromium	17.5		0.71	mg/kg	03/04/24	03/07/24
Lead	8.77		0.71	mg/kg	03/04/24	03/07/24
Mercury	ND		0.124	mg/kg	03/04/24	03/05/24
Nickel	10.1		0.71	mg/kg	03/04/24	03/07/24
Selenium	ND		1.41	mg/kg	03/04/24	03/07/24
Silver	ND		1.41	mg/kg	03/04/24	03/07/24
Vanadium	25.9		0.47	mg/kg	03/04/24	03/07/24
Zinc	30.3		2.8	mg/kg	03/04/24	03/07/24
Thallium	ND		0.47	mg/kg	03/04/24	03/07/24

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

Sample: TP-1 18"

Lab Number: 4C01011-01 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		112	ug/kg	03/08/24	03/08/24
Benzene	ND		6	ug/kg	03/08/24	03/08/24
Bromobenzene	ND		6	ug/kg	03/08/24	03/08/24
Bromochloromethane	ND		6	ug/kg	03/08/24	03/08/24
Bromodichloromethane	ND		6	ug/kg	03/08/24	03/08/24
Bromoform	ND		6	ug/kg	03/08/24	03/08/24
Bromomethane	ND		6	ug/kg	03/08/24	03/08/24
2-Butanone	ND		112	ug/kg	03/08/24	03/08/24
tert-Butyl alcohol	ND		6	ug/kg	03/08/24	03/08/24
sec-Butylbenzene	ND		6	ug/kg	03/08/24	03/08/24
n-Butylbenzene	ND		6	ug/kg	03/08/24	03/08/24
tert-Butylbenzene	ND		6	ug/kg	03/08/24	03/08/24
Methyl t-butyl ether (MTBE)	ND		6	ug/kg	03/08/24	03/08/24
Carbon Disulfide	ND		6	ug/kg	03/08/24	03/08/24
Carbon Tetrachloride	ND		6	ug/kg	03/08/24	03/08/24
Chlorobenzene	ND		6	ug/kg	03/08/24	03/08/24
Chloroethane	ND		6	ug/kg	03/08/24	03/08/24
Chloroform	ND		6	ug/kg	03/08/24	03/08/24
Chloromethane	ND		6	ug/kg	03/08/24	03/08/24
4-Chlorotoluene	ND		6	ug/kg	03/08/24	03/08/24
2-Chlorotoluene	ND		6	ug/kg	03/08/24	03/08/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		6	ug/kg	03/08/24	03/08/24
Dibromochloromethane	ND		6	ug/kg	03/08/24	03/08/24
1,2-Dibromoethane (EDB)	ND		6	ug/kg	03/08/24	03/08/24
Dibromomethane	ND		6	ug/kg	03/08/24	03/08/24
1,2-Dichlorobenzene	ND		6	ug/kg	03/08/24	03/08/24
1,3-Dichlorobenzene	ND		6	ug/kg	03/08/24	03/08/24
1,4-Dichlorobenzene	ND		6	ug/kg	03/08/24	03/08/24
1,1-Dichloroethane	ND		6	ug/kg	03/08/24	03/08/24
1,2-Dichloroethane	ND		6	ug/kg	03/08/24	03/08/24
1,2 Dichloroethene, Total	ND		6	ug/kg	03/08/24	03/08/24
trans-1,2-Dichloroethene	ND		6	ug/kg	03/08/24	03/08/24
cis-1,2-Dichloroethene	ND		6	ug/kg	03/08/24	03/08/24
1,1-Dichloroethene	ND		6	ug/kg	03/08/24	03/08/24
1,2-Dichloropropane	ND		6	ug/kg	03/08/24	03/08/24
2,2-Dichloropropane	ND		6	ug/kg	03/08/24	03/08/24
cis-1,3-Dichloropropene	ND		6	ug/kg	03/08/24	03/08/24
trans-1,3-Dichloropropene	ND		6	ug/kg	03/08/24	03/08/24
1,1-Dichloropropene	ND		6	ug/kg	03/08/24	03/08/24
1,3-Dichloropropene (cis + trans)	ND		6	ug/kg	03/08/24	03/08/24
Diethyl ether	ND		6	ug/kg	03/08/24	03/08/24
1,4-Dioxane	ND		112	ug/kg	03/08/24	03/08/24
Ethylbenzene	ND		6	ug/kg	03/08/24	03/08/24
Hexachlorobutadiene	ND		6	ug/kg	03/08/24	03/08/24
2-Hexanone	ND		112	ug/kg	03/08/24	03/08/24
Isopropylbenzene	ND		6	ug/kg	03/08/24	03/08/24
p-Isopropyltoluene	ND		6	ug/kg	03/08/24	03/08/24

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

Sample: TP-1 18" (Continued)

Lab Number: 4C01011-01 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		6	ug/kg	03/08/24	03/08/24
4-Methyl-2-pentanone	ND		112	ug/kg	03/08/24	03/08/24
Naphthalene	ND		6	ug/kg	03/08/24	03/08/24
n-Propylbenzene	ND		6	ug/kg	03/08/24	03/08/24
Styrene	ND		6	ug/kg	03/08/24	03/08/24
1,1,1,2-Tetrachloroethane	ND		6	ug/kg	03/08/24	03/08/24
Tetrachloroethene	ND		6	ug/kg	03/08/24	03/08/24
Tetrahydrofuran	ND		6	ug/kg	03/08/24	03/08/24
Toluene	ND		6	ug/kg	03/08/24	03/08/24
1,2,4-Trichlorobenzene	ND		6	ug/kg	03/08/24	03/08/24
1,2,3-Trichlorobenzene	ND		6	ug/kg	03/08/24	03/08/24
1,1,2-Trichloroethane	ND		6	ug/kg	03/08/24	03/08/24
1,1,1-Trichloroethane	ND		6	ug/kg	03/08/24	03/08/24
Trichloroethene	ND		6	ug/kg	03/08/24	03/08/24
1,2,3-Trichloropropane	ND		6	ug/kg	03/08/24	03/08/24
1,3,5-Trimethylbenzene	ND		6	ug/kg	03/08/24	03/08/24
1,2,4-Trimethylbenzene	ND		6	ug/kg	03/08/24	03/08/24
Vinyl Chloride	ND		6	ug/kg	03/08/24	03/08/24
o-Xylene	ND		6	ug/kg	03/08/24	03/08/24
m&p-Xylene	ND		11	ug/kg	03/08/24	03/08/24
Total xylenes	ND		6	ug/kg	03/08/24	03/08/24
1,1,2,2-Tetrachloroethane	ND		6	ug/kg	03/08/24	03/08/24
tert-Amyl methyl ether	ND		6	ug/kg	03/08/24	03/08/24
1,3-Dichloropropane	ND		6	ug/kg	03/08/24	03/08/24
Ethyl tert-butyl ether	ND		6	ug/kg	03/08/24	03/08/24
Diisopropyl ether	ND		6	ug/kg	03/08/24	03/08/24
Trichlorofluoromethane	ND		6	ug/kg	03/08/24	03/08/24
Dichlorodifluoromethane	ND		6	ug/kg	03/08/24	03/08/24

Surrogate(s)	Recovery%	Limits	Date Prepared	Date Analyzed
<i>4-Bromofluorobenzene</i>	<i>93.2%</i>	<i>70-130</i>	03/08/24	03/08/24
<i>1,2-Dichloroethane-d4</i>	<i>101%</i>	<i>70-130</i>	03/08/24	03/08/24
<i>Toluene-d8</i>	<i>89.4%</i>	<i>70-130</i>	03/08/24	03/08/24

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

Sample: P-1 4'

Lab Number: 4C01011-02 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		106	ug/kg	03/05/24	03/05/24
Benzene	ND		5	ug/kg	03/05/24	03/05/24
Bromobenzene	ND		5	ug/kg	03/05/24	03/05/24
Bromochloromethane	ND		5	ug/kg	03/05/24	03/05/24
Bromodichloromethane	ND		5	ug/kg	03/05/24	03/05/24
Bromoform	ND		5	ug/kg	03/05/24	03/05/24
Bromomethane	ND		5	ug/kg	03/05/24	03/05/24
2-Butanone	ND		106	ug/kg	03/05/24	03/05/24
tert-Butyl alcohol	ND		5	ug/kg	03/05/24	03/05/24
sec-Butylbenzene	ND		5	ug/kg	03/05/24	03/05/24
n-Butylbenzene	ND		5	ug/kg	03/05/24	03/05/24
tert-Butylbenzene	ND		5	ug/kg	03/05/24	03/05/24
Methyl t-butyl ether (MTBE)	ND		5	ug/kg	03/05/24	03/05/24
Carbon Disulfide	ND		5	ug/kg	03/05/24	03/05/24
Carbon Tetrachloride	ND		5	ug/kg	03/05/24	03/05/24
Chlorobenzene	ND		5	ug/kg	03/05/24	03/05/24
Chloroethane	ND		5	ug/kg	03/05/24	03/05/24
Chloroform	ND		5	ug/kg	03/05/24	03/05/24
Chloromethane	ND		5	ug/kg	03/05/24	03/05/24
4-Chlorotoluene	ND		5	ug/kg	03/05/24	03/05/24
2-Chlorotoluene	ND		5	ug/kg	03/05/24	03/05/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		5	ug/kg	03/05/24	03/05/24
Dibromochloromethane	ND		5	ug/kg	03/05/24	03/05/24
1,2-Dibromoethane (EDB)	ND		5	ug/kg	03/05/24	03/05/24
Dibromomethane	ND		5	ug/kg	03/05/24	03/05/24
1,2-Dichlorobenzene	ND		5	ug/kg	03/05/24	03/05/24
1,3-Dichlorobenzene	ND		5	ug/kg	03/05/24	03/05/24
1,4-Dichlorobenzene	ND		5	ug/kg	03/05/24	03/05/24
1,1-Dichloroethane	ND		5	ug/kg	03/05/24	03/05/24
1,2-Dichloroethane	ND		5	ug/kg	03/05/24	03/05/24
1,2 Dichloroethene, Total	ND		5	ug/kg	03/05/24	03/05/24
trans-1,2-Dichloroethene	ND		5	ug/kg	03/05/24	03/05/24
cis-1,2-Dichloroethene	ND		5	ug/kg	03/05/24	03/05/24
1,1-Dichloroethene	ND		5	ug/kg	03/05/24	03/05/24
1,2-Dichloropropane	ND		5	ug/kg	03/05/24	03/05/24
2,2-Dichloropropane	ND		5	ug/kg	03/05/24	03/05/24
cis-1,3-Dichloropropene	ND		5	ug/kg	03/05/24	03/05/24
trans-1,3-Dichloropropene	ND		5	ug/kg	03/05/24	03/05/24
1,1-Dichloropropene	ND		5	ug/kg	03/05/24	03/05/24
1,3-Dichloropropene (cis + trans)	ND		5	ug/kg	03/05/24	03/05/24
Diethyl ether	ND		5	ug/kg	03/05/24	03/05/24
1,4-Dioxane	ND		106	ug/kg	03/05/24	03/05/24
Ethylbenzene	ND		5	ug/kg	03/05/24	03/05/24
Hexachlorobutadiene	ND		5	ug/kg	03/05/24	03/05/24
2-Hexanone	ND		106	ug/kg	03/05/24	03/05/24
Isopropylbenzene	ND		5	ug/kg	03/05/24	03/05/24
p-Isopropyltoluene	ND		5	ug/kg	03/05/24	03/05/24

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

Sample: P-1 4' (Continued)

Lab Number: 4C01011-02 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		5	ug/kg	03/05/24	03/05/24
4-Methyl-2-pentanone	ND		106	ug/kg	03/05/24	03/05/24
Naphthalene	ND		5	ug/kg	03/05/24	03/05/24
n-Propylbenzene	ND		5	ug/kg	03/05/24	03/05/24
Styrene	ND		5	ug/kg	03/05/24	03/05/24
1,1,1,2-Tetrachloroethane	ND		5	ug/kg	03/05/24	03/05/24
Tetrachloroethene	ND		5	ug/kg	03/05/24	03/05/24
Tetrahydrofuran	ND		5	ug/kg	03/05/24	03/05/24
Toluene	ND		5	ug/kg	03/05/24	03/05/24
1,2,4-Trichlorobenzene	ND		5	ug/kg	03/05/24	03/05/24
1,2,3-Trichlorobenzene	ND		5	ug/kg	03/05/24	03/05/24
1,1,2-Trichloroethane	ND		5	ug/kg	03/05/24	03/05/24
1,1,1-Trichloroethane	ND		5	ug/kg	03/05/24	03/05/24
Trichloroethene	ND		5	ug/kg	03/05/24	03/05/24
1,2,3-Trichloropropane	ND		5	ug/kg	03/05/24	03/05/24
1,3,5-Trimethylbenzene	ND		5	ug/kg	03/05/24	03/05/24
1,2,4-Trimethylbenzene	ND		5	ug/kg	03/05/24	03/05/24
Vinyl Chloride	ND		5	ug/kg	03/05/24	03/05/24
o-Xylene	ND		5	ug/kg	03/05/24	03/05/24
m&p-Xylene	ND		11	ug/kg	03/05/24	03/05/24
Total xylenes	ND		5	ug/kg	03/05/24	03/05/24
1,1,2,2-Tetrachloroethane	ND		5	ug/kg	03/05/24	03/05/24
tert-Amyl methyl ether	ND		5	ug/kg	03/05/24	03/05/24
1,3-Dichloropropane	ND		5	ug/kg	03/05/24	03/05/24
Ethyl tert-butyl ether	ND		5	ug/kg	03/05/24	03/05/24
Diisopropyl ether	ND		5	ug/kg	03/05/24	03/05/24
Trichlorofluoromethane	ND		5	ug/kg	03/05/24	03/05/24
Dichlorodifluoromethane	ND		5	ug/kg	03/05/24	03/05/24
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Surrogate(s)	Recovery%		Limits			
<i>4-Bromofluorobenzene</i>	<i>99.1%</i>		<i>70-130</i>		03/05/24	03/05/24
<i>1,2-Dichloroethane-d4</i>	<i>101%</i>		<i>70-130</i>		03/05/24	03/05/24
<i>Toluene-d8</i>	<i>97.9%</i>		<i>70-130</i>		03/05/24	03/05/24

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

Sample: TP-2 18"

Lab Number: 4C01011-03 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		215	ug/kg	03/05/24	03/05/24
Benzene	ND		11	ug/kg	03/05/24	03/05/24
Bromobenzene	ND		11	ug/kg	03/05/24	03/05/24
Bromochloromethane	ND		11	ug/kg	03/05/24	03/05/24
Bromodichloromethane	ND		11	ug/kg	03/05/24	03/05/24
Bromoform	ND		11	ug/kg	03/05/24	03/05/24
Bromomethane	ND		11	ug/kg	03/05/24	03/05/24
2-Butanone	ND		215	ug/kg	03/05/24	03/05/24
tert-Butyl alcohol	ND		11	ug/kg	03/05/24	03/05/24
sec-Butylbenzene	ND		11	ug/kg	03/05/24	03/05/24
n-Butylbenzene	ND		11	ug/kg	03/05/24	03/05/24
tert-Butylbenzene	ND		11	ug/kg	03/05/24	03/05/24
Methyl t-butyl ether (MTBE)	ND		11	ug/kg	03/05/24	03/05/24
Carbon Disulfide	ND		11	ug/kg	03/05/24	03/05/24
Carbon Tetrachloride	ND		11	ug/kg	03/05/24	03/05/24
Chlorobenzene	ND		11	ug/kg	03/05/24	03/05/24
Chloroethane	ND		11	ug/kg	03/05/24	03/05/24
Chloroform	ND		11	ug/kg	03/05/24	03/05/24
Chloromethane	ND		11	ug/kg	03/05/24	03/05/24
4-Chlorotoluene	ND		11	ug/kg	03/05/24	03/05/24
2-Chlorotoluene	ND		11	ug/kg	03/05/24	03/05/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		11	ug/kg	03/05/24	03/05/24
Dibromochloromethane	ND		11	ug/kg	03/05/24	03/05/24
1,2-Dibromoethane (EDB)	ND		11	ug/kg	03/05/24	03/05/24
Dibromomethane	ND		11	ug/kg	03/05/24	03/05/24
1,2-Dichlorobenzene	ND		11	ug/kg	03/05/24	03/05/24
1,3-Dichlorobenzene	ND		11	ug/kg	03/05/24	03/05/24
1,4-Dichlorobenzene	ND		11	ug/kg	03/05/24	03/05/24
1,1-Dichloroethane	ND		11	ug/kg	03/05/24	03/05/24
1,2-Dichloroethane	ND		11	ug/kg	03/05/24	03/05/24
1,2 Dichloroethene, Total	ND		11	ug/kg	03/05/24	03/05/24
trans-1,2-Dichloroethene	ND		11	ug/kg	03/05/24	03/05/24
cis-1,2-Dichloroethene	ND		11	ug/kg	03/05/24	03/05/24
1,1-Dichloroethene	ND		11	ug/kg	03/05/24	03/05/24
1,2-Dichloropropane	ND		11	ug/kg	03/05/24	03/05/24
2,2-Dichloropropane	ND		11	ug/kg	03/05/24	03/05/24
cis-1,3-Dichloropropene	ND		11	ug/kg	03/05/24	03/05/24
trans-1,3-Dichloropropene	ND		11	ug/kg	03/05/24	03/05/24
1,1-Dichloropropene	ND		11	ug/kg	03/05/24	03/05/24
1,3-Dichloropropene (cis + trans)	ND		11	ug/kg	03/05/24	03/05/24
Diethyl ether	ND		11	ug/kg	03/05/24	03/05/24
1,4-Dioxane	ND		215	ug/kg	03/05/24	03/05/24
Ethylbenzene	ND		11	ug/kg	03/05/24	03/05/24
Hexachlorobutadiene	ND		11	ug/kg	03/05/24	03/05/24
2-Hexanone	ND		215	ug/kg	03/05/24	03/05/24
Isopropylbenzene	ND		11	ug/kg	03/05/24	03/05/24
p-Isopropyltoluene	ND		11	ug/kg	03/05/24	03/05/24

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

Sample: TP-2 18" (Continued)

Lab Number: 4C01011-03 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		11	ug/kg	03/05/24	03/05/24
4-Methyl-2-pentanone	ND		215	ug/kg	03/05/24	03/05/24
Naphthalene	ND		11	ug/kg	03/05/24	03/05/24
n-Propylbenzene	ND		11	ug/kg	03/05/24	03/05/24
Styrene	ND		11	ug/kg	03/05/24	03/05/24
1,1,1,2-Tetrachloroethane	ND		11	ug/kg	03/05/24	03/05/24
Tetrachloroethene	ND		11	ug/kg	03/05/24	03/05/24
Tetrahydrofuran	ND		11	ug/kg	03/05/24	03/05/24
Toluene	ND		11	ug/kg	03/05/24	03/05/24
1,2,4-Trichlorobenzene	ND		11	ug/kg	03/05/24	03/05/24
1,2,3-Trichlorobenzene	ND		11	ug/kg	03/05/24	03/05/24
1,1,2-Trichloroethane	ND		11	ug/kg	03/05/24	03/05/24
1,1,1-Trichloroethane	ND		11	ug/kg	03/05/24	03/05/24
Trichloroethene	ND		11	ug/kg	03/05/24	03/05/24
1,2,3-Trichloropropane	ND		11	ug/kg	03/05/24	03/05/24
1,3,5-Trimethylbenzene	ND		11	ug/kg	03/05/24	03/05/24
1,2,4-Trimethylbenzene	ND		11	ug/kg	03/05/24	03/05/24
Vinyl Chloride	ND		11	ug/kg	03/05/24	03/05/24
o-Xylene	ND		11	ug/kg	03/05/24	03/05/24
m&p-Xylene	ND		21	ug/kg	03/05/24	03/05/24
Total xylenes	ND		11	ug/kg	03/05/24	03/05/24
1,1,2,2-Tetrachloroethane	ND		11	ug/kg	03/05/24	03/05/24
tert-Amyl methyl ether	ND		11	ug/kg	03/05/24	03/05/24
1,3-Dichloropropane	ND		11	ug/kg	03/05/24	03/05/24
Ethyl tert-butyl ether	ND		11	ug/kg	03/05/24	03/05/24
Diisopropyl ether	ND		11	ug/kg	03/05/24	03/05/24
Trichlorofluoromethane	ND		11	ug/kg	03/05/24	03/05/24
Dichlorodifluoromethane	ND		11	ug/kg	03/05/24	03/05/24
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Surrogate(s)	Recovery%		Limits			
<i>4-Bromofluorobenzene</i>	<i>95.4%</i>		<i>70-130</i>		03/05/24	03/05/24
<i>1,2-Dichloroethane-d4</i>	<i>104%</i>		<i>70-130</i>		03/05/24	03/05/24
<i>Toluene-d8</i>	<i>95.3%</i>		<i>70-130</i>		03/05/24	03/05/24

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

Sample: TP-3 18"

Lab Number: 4C01011-04 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		652	ug/kg	03/05/24	03/05/24
Benzene	ND		33	ug/kg	03/05/24	03/05/24
Bromobenzene	ND		33	ug/kg	03/05/24	03/05/24
Bromochloromethane	ND		33	ug/kg	03/05/24	03/05/24
Bromodichloromethane	ND		33	ug/kg	03/05/24	03/05/24
Bromoform	ND		33	ug/kg	03/05/24	03/05/24
Bromomethane	ND		33	ug/kg	03/05/24	03/05/24
2-Butanone	ND		652	ug/kg	03/05/24	03/05/24
tert-Butyl alcohol	ND		33	ug/kg	03/05/24	03/05/24
sec-Butylbenzene	ND		33	ug/kg	03/05/24	03/05/24
n-Butylbenzene	ND		33	ug/kg	03/05/24	03/05/24
tert-Butylbenzene	ND		33	ug/kg	03/05/24	03/05/24
Methyl t-butyl ether (MTBE)	ND		33	ug/kg	03/05/24	03/05/24
Carbon Disulfide	ND		33	ug/kg	03/05/24	03/05/24
Carbon Tetrachloride	ND		33	ug/kg	03/05/24	03/05/24
Chlorobenzene	ND		33	ug/kg	03/05/24	03/05/24
Chloroethane	ND		33	ug/kg	03/05/24	03/05/24
Chloroform	ND		33	ug/kg	03/05/24	03/05/24
Chloromethane	ND		33	ug/kg	03/05/24	03/05/24
4-Chlorotoluene	ND		33	ug/kg	03/05/24	03/05/24
2-Chlorotoluene	ND		33	ug/kg	03/05/24	03/05/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		33	ug/kg	03/05/24	03/05/24
Dibromochloromethane	ND		33	ug/kg	03/05/24	03/05/24
1,2-Dibromoethane (EDB)	ND		33	ug/kg	03/05/24	03/05/24
Dibromomethane	ND		33	ug/kg	03/05/24	03/05/24
1,2-Dichlorobenzene	ND		33	ug/kg	03/05/24	03/05/24
1,3-Dichlorobenzene	ND		33	ug/kg	03/05/24	03/05/24
1,4-Dichlorobenzene	ND		33	ug/kg	03/05/24	03/05/24
1,1-Dichloroethane	ND		33	ug/kg	03/05/24	03/05/24
1,2-Dichloroethane	ND		33	ug/kg	03/05/24	03/05/24
1,2 Dichloroethene, Total	ND		33	ug/kg	03/05/24	03/05/24
trans-1,2-Dichloroethene	ND		33	ug/kg	03/05/24	03/05/24
cis-1,2-Dichloroethene	ND		33	ug/kg	03/05/24	03/05/24
1,1-Dichloroethene	ND		33	ug/kg	03/05/24	03/05/24
1,2-Dichloropropane	ND		33	ug/kg	03/05/24	03/05/24
2,2-Dichloropropane	ND		33	ug/kg	03/05/24	03/05/24
cis-1,3-Dichloropropene	ND		33	ug/kg	03/05/24	03/05/24
trans-1,3-Dichloropropene	ND		33	ug/kg	03/05/24	03/05/24
1,1-Dichloropropene	ND		33	ug/kg	03/05/24	03/05/24
1,3-Dichloropropene (cis + trans)	ND		33	ug/kg	03/05/24	03/05/24
Diethyl ether	ND		33	ug/kg	03/05/24	03/05/24
1,4-Dioxane	ND		652	ug/kg	03/05/24	03/05/24
Ethylbenzene	ND		33	ug/kg	03/05/24	03/05/24
Hexachlorobutadiene	ND		33	ug/kg	03/05/24	03/05/24
2-Hexanone	ND		652	ug/kg	03/05/24	03/05/24
Isopropylbenzene	ND		33	ug/kg	03/05/24	03/05/24
p-Isopropyltoluene	ND		33	ug/kg	03/05/24	03/05/24

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

Sample: TP-3 18" (Continued)

Lab Number: 4C01011-04 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		33	ug/kg	03/05/24	03/05/24
4-Methyl-2-pentanone	ND		652	ug/kg	03/05/24	03/05/24
Naphthalene	ND		33	ug/kg	03/05/24	03/05/24
n-Propylbenzene	ND		33	ug/kg	03/05/24	03/05/24
Styrene	ND		33	ug/kg	03/05/24	03/05/24
1,1,1,2-Tetrachloroethane	ND		33	ug/kg	03/05/24	03/05/24
Tetrachloroethene	ND		33	ug/kg	03/05/24	03/05/24
Tetrahydrofuran	ND		33	ug/kg	03/05/24	03/05/24
Toluene	ND		33	ug/kg	03/05/24	03/05/24
1,2,4-Trichlorobenzene	ND		33	ug/kg	03/05/24	03/05/24
1,2,3-Trichlorobenzene	ND		33	ug/kg	03/05/24	03/05/24
1,1,2-Trichloroethane	ND		33	ug/kg	03/05/24	03/05/24
1,1,1-Trichloroethane	ND		33	ug/kg	03/05/24	03/05/24
Trichloroethene	ND		33	ug/kg	03/05/24	03/05/24
1,2,3-Trichloropropane	ND		33	ug/kg	03/05/24	03/05/24
1,3,5-Trimethylbenzene	ND		33	ug/kg	03/05/24	03/05/24
1,2,4-Trimethylbenzene	ND		33	ug/kg	03/05/24	03/05/24
Vinyl Chloride	ND		33	ug/kg	03/05/24	03/05/24
o-Xylene	ND		33	ug/kg	03/05/24	03/05/24
m&p-Xylene	ND		65	ug/kg	03/05/24	03/05/24
Total xylenes	ND		33	ug/kg	03/05/24	03/05/24
1,1,2,2-Tetrachloroethane	ND		33	ug/kg	03/05/24	03/05/24
tert-Amyl methyl ether	ND		33	ug/kg	03/05/24	03/05/24
1,3-Dichloropropane	ND		33	ug/kg	03/05/24	03/05/24
Ethyl tert-butyl ether	ND		33	ug/kg	03/05/24	03/05/24
Diisopropyl ether	ND		33	ug/kg	03/05/24	03/05/24
Trichlorofluoromethane	ND		33	ug/kg	03/05/24	03/05/24
Dichlorodifluoromethane	ND		33	ug/kg	03/05/24	03/05/24

Surrogate(s)	Recovery%	Limits	Date Prepared	Date Analyzed
<i>4-Bromofluorobenzene</i>	<i>86.7%</i>	<i>70-130</i>	03/05/24	03/05/24
<i>1,2-Dichloroethane-d4</i>	<i>103%</i>	<i>70-130</i>	03/05/24	03/05/24
<i>Toluene-d8</i>	<i>88.4%</i>	<i>70-130</i>	03/05/24	03/05/24

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

Sample: TP-4"

Lab Number: 4C01011-05 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		372	ug/kg	03/05/24	03/05/24
Benzene	ND		19	ug/kg	03/05/24	03/05/24
Bromobenzene	ND		19	ug/kg	03/05/24	03/05/24
Bromochloromethane	ND		19	ug/kg	03/05/24	03/05/24
Bromodichloromethane	ND		19	ug/kg	03/05/24	03/05/24
Bromoform	ND		19	ug/kg	03/05/24	03/05/24
Bromomethane	ND		19	ug/kg	03/05/24	03/05/24
2-Butanone	ND		372	ug/kg	03/05/24	03/05/24
tert-Butyl alcohol	ND		19	ug/kg	03/05/24	03/05/24
sec-Butylbenzene	ND		19	ug/kg	03/05/24	03/05/24
n-Butylbenzene	ND		19	ug/kg	03/05/24	03/05/24
tert-Butylbenzene	ND		19	ug/kg	03/05/24	03/05/24
Methyl t-butyl ether (MTBE)	ND		19	ug/kg	03/05/24	03/05/24
Carbon Disulfide	ND		19	ug/kg	03/05/24	03/05/24
Carbon Tetrachloride	ND		19	ug/kg	03/05/24	03/05/24
Chlorobenzene	ND		19	ug/kg	03/05/24	03/05/24
Chloroethane	ND		19	ug/kg	03/05/24	03/05/24
Chloroform	ND		19	ug/kg	03/05/24	03/05/24
Chloromethane	ND		19	ug/kg	03/05/24	03/05/24
4-Chlorotoluene	ND		19	ug/kg	03/05/24	03/05/24
2-Chlorotoluene	ND		19	ug/kg	03/05/24	03/05/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		19	ug/kg	03/05/24	03/05/24
Dibromochloromethane	ND		19	ug/kg	03/05/24	03/05/24
1,2-Dibromoethane (EDB)	ND		19	ug/kg	03/05/24	03/05/24
Dibromomethane	ND		19	ug/kg	03/05/24	03/05/24
1,2-Dichlorobenzene	ND		19	ug/kg	03/05/24	03/05/24
1,3-Dichlorobenzene	ND		19	ug/kg	03/05/24	03/05/24
1,4-Dichlorobenzene	ND		19	ug/kg	03/05/24	03/05/24
1,1-Dichloroethane	ND		19	ug/kg	03/05/24	03/05/24
1,2-Dichloroethane	ND		19	ug/kg	03/05/24	03/05/24
1,2 Dichloroethene, Total	ND		19	ug/kg	03/05/24	03/05/24
trans-1,2-Dichloroethene	ND		19	ug/kg	03/05/24	03/05/24
cis-1,2-Dichloroethene	ND		19	ug/kg	03/05/24	03/05/24
1,1-Dichloroethene	ND		19	ug/kg	03/05/24	03/05/24
1,2-Dichloropropane	ND		19	ug/kg	03/05/24	03/05/24
2,2-Dichloropropane	ND		19	ug/kg	03/05/24	03/05/24
cis-1,3-Dichloropropene	ND		19	ug/kg	03/05/24	03/05/24
trans-1,3-Dichloropropene	ND		19	ug/kg	03/05/24	03/05/24
1,1-Dichloropropene	ND		19	ug/kg	03/05/24	03/05/24
1,3-Dichloropropene (cis + trans)	ND		19	ug/kg	03/05/24	03/05/24
Diethyl ether	ND		19	ug/kg	03/05/24	03/05/24
1,4-Dioxane	ND		372	ug/kg	03/05/24	03/05/24
Ethylbenzene	ND		19	ug/kg	03/05/24	03/05/24
Hexachlorobutadiene	ND		19	ug/kg	03/05/24	03/05/24
2-Hexanone	ND		372	ug/kg	03/05/24	03/05/24
Isopropylbenzene	ND		19	ug/kg	03/05/24	03/05/24
p-Isopropyltoluene	ND		19	ug/kg	03/05/24	03/05/24

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

Sample: TP-4" (Continued)

Lab Number: 4C01011-05 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		19	ug/kg	03/05/24	03/05/24
4-Methyl-2-pentanone	ND		372	ug/kg	03/05/24	03/05/24
Naphthalene	ND		19	ug/kg	03/05/24	03/05/24
n-Propylbenzene	ND		19	ug/kg	03/05/24	03/05/24
Styrene	ND		19	ug/kg	03/05/24	03/05/24
1,1,1,2-Tetrachloroethane	ND		19	ug/kg	03/05/24	03/05/24
Tetrachloroethene	ND		19	ug/kg	03/05/24	03/05/24
Tetrahydrofuran	ND		19	ug/kg	03/05/24	03/05/24
Toluene	ND		19	ug/kg	03/05/24	03/05/24
1,2,4-Trichlorobenzene	ND		19	ug/kg	03/05/24	03/05/24
1,2,3-Trichlorobenzene	ND		19	ug/kg	03/05/24	03/05/24
1,1,2-Trichloroethane	ND		19	ug/kg	03/05/24	03/05/24
1,1,1-Trichloroethane	ND		19	ug/kg	03/05/24	03/05/24
Trichloroethene	ND		19	ug/kg	03/05/24	03/05/24
1,2,3-Trichloropropane	ND		19	ug/kg	03/05/24	03/05/24
1,3,5-Trimethylbenzene	ND		19	ug/kg	03/05/24	03/05/24
1,2,4-Trimethylbenzene	ND		19	ug/kg	03/05/24	03/05/24
Vinyl Chloride	ND		19	ug/kg	03/05/24	03/05/24
o-Xylene	ND		19	ug/kg	03/05/24	03/05/24
m&p-Xylene	ND		37	ug/kg	03/05/24	03/05/24
Total xylenes	ND		19	ug/kg	03/05/24	03/05/24
1,1,2,2-Tetrachloroethane	ND		19	ug/kg	03/05/24	03/05/24
tert-Amyl methyl ether	ND		19	ug/kg	03/05/24	03/05/24
1,3-Dichloropropane	ND		19	ug/kg	03/05/24	03/05/24
Ethyl tert-butyl ether	ND		19	ug/kg	03/05/24	03/05/24
Diisopropyl ether	ND		19	ug/kg	03/05/24	03/05/24
Trichlorofluoromethane	ND		19	ug/kg	03/05/24	03/05/24
Dichlorodifluoromethane	ND		19	ug/kg	03/05/24	03/05/24
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Surrogate(s)	Recovery%		Limits			
<i>4-Bromofluorobenzene</i>	<i>88.0%</i>		<i>70-130</i>		03/05/24	03/05/24
<i>1,2-Dichloroethane-d4</i>	<i>109%</i>		<i>70-130</i>		03/05/24	03/05/24
<i>Toluene-d8</i>	<i>91.2%</i>		<i>70-130</i>		03/05/24	03/05/24

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

Sample: P-2 4'

Lab Number: 4C01011-06 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		133	ug/kg	03/08/24	03/08/24
Benzene	ND		7	ug/kg	03/08/24	03/08/24
Bromobenzene	ND		7	ug/kg	03/08/24	03/08/24
Bromochloromethane	ND		7	ug/kg	03/08/24	03/08/24
Bromodichloromethane	ND		7	ug/kg	03/08/24	03/08/24
Bromoform	ND		7	ug/kg	03/08/24	03/08/24
Bromomethane	ND		7	ug/kg	03/08/24	03/08/24
2-Butanone	ND		133	ug/kg	03/08/24	03/08/24
tert-Butyl alcohol	ND		7	ug/kg	03/08/24	03/08/24
sec-Butylbenzene	ND		7	ug/kg	03/08/24	03/08/24
n-Butylbenzene	ND		7	ug/kg	03/08/24	03/08/24
tert-Butylbenzene	ND		7	ug/kg	03/08/24	03/08/24
Methyl t-butyl ether (MTBE)	ND		7	ug/kg	03/08/24	03/08/24
Carbon Disulfide	ND		7	ug/kg	03/08/24	03/08/24
Carbon Tetrachloride	ND		7	ug/kg	03/08/24	03/08/24
Chlorobenzene	ND		7	ug/kg	03/08/24	03/08/24
Chloroethane	ND		7	ug/kg	03/08/24	03/08/24
Chloroform	ND		7	ug/kg	03/08/24	03/08/24
Chloromethane	ND		7	ug/kg	03/08/24	03/08/24
4-Chlorotoluene	ND		7	ug/kg	03/08/24	03/08/24
2-Chlorotoluene	ND		7	ug/kg	03/08/24	03/08/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		7	ug/kg	03/08/24	03/08/24
Dibromochloromethane	ND		7	ug/kg	03/08/24	03/08/24
1,2-Dibromoethane (EDB)	ND		7	ug/kg	03/08/24	03/08/24
Dibromomethane	ND		7	ug/kg	03/08/24	03/08/24
1,2-Dichlorobenzene	ND		7	ug/kg	03/08/24	03/08/24
1,3-Dichlorobenzene	ND		7	ug/kg	03/08/24	03/08/24
1,4-Dichlorobenzene	ND		7	ug/kg	03/08/24	03/08/24
1,1-Dichloroethane	ND		7	ug/kg	03/08/24	03/08/24
1,2-Dichloroethane	ND		7	ug/kg	03/08/24	03/08/24
1,2 Dichloroethene, Total	ND		7	ug/kg	03/08/24	03/08/24
trans-1,2-Dichloroethene	ND		7	ug/kg	03/08/24	03/08/24
cis-1,2-Dichloroethene	ND		7	ug/kg	03/08/24	03/08/24
1,1-Dichloroethene	ND		7	ug/kg	03/08/24	03/08/24
1,2-Dichloropropane	ND		7	ug/kg	03/08/24	03/08/24
2,2-Dichloropropane	ND		7	ug/kg	03/08/24	03/08/24
cis-1,3-Dichloropropene	ND		7	ug/kg	03/08/24	03/08/24
trans-1,3-Dichloropropene	ND		7	ug/kg	03/08/24	03/08/24
1,1-Dichloropropene	ND		7	ug/kg	03/08/24	03/08/24
1,3-Dichloropropene (cis + trans)	ND		7	ug/kg	03/08/24	03/08/24
Diethyl ether	ND		7	ug/kg	03/08/24	03/08/24
1,4-Dioxane	ND		133	ug/kg	03/08/24	03/08/24
Ethylbenzene	ND		7	ug/kg	03/08/24	03/08/24
Hexachlorobutadiene	ND		7	ug/kg	03/08/24	03/08/24
2-Hexanone	ND		133	ug/kg	03/08/24	03/08/24
Isopropylbenzene	ND		7	ug/kg	03/08/24	03/08/24
p-Isopropyltoluene	ND		7	ug/kg	03/08/24	03/08/24

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

Sample: P-2 4' (Continued)

Lab Number: 4C01011-06 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		7	ug/kg	03/08/24	03/08/24
4-Methyl-2-pentanone	ND		133	ug/kg	03/08/24	03/08/24
Naphthalene	ND		7	ug/kg	03/08/24	03/08/24
n-Propylbenzene	ND		7	ug/kg	03/08/24	03/08/24
Styrene	ND		7	ug/kg	03/08/24	03/08/24
1,1,1,2-Tetrachloroethane	ND		7	ug/kg	03/08/24	03/08/24
Tetrachloroethene	ND		7	ug/kg	03/08/24	03/08/24
Tetrahydrofuran	ND		7	ug/kg	03/08/24	03/08/24
Toluene	ND		7	ug/kg	03/08/24	03/08/24
1,2,4-Trichlorobenzene	ND		7	ug/kg	03/08/24	03/08/24
1,2,3-Trichlorobenzene	ND		7	ug/kg	03/08/24	03/08/24
1,1,2-Trichloroethane	ND		7	ug/kg	03/08/24	03/08/24
1,1,1-Trichloroethane	ND		7	ug/kg	03/08/24	03/08/24
Trichloroethene	ND		7	ug/kg	03/08/24	03/08/24
1,2,3-Trichloropropane	ND		7	ug/kg	03/08/24	03/08/24
1,3,5-Trimethylbenzene	ND		7	ug/kg	03/08/24	03/08/24
1,2,4-Trimethylbenzene	ND		7	ug/kg	03/08/24	03/08/24
Vinyl Chloride	ND		7	ug/kg	03/08/24	03/08/24
o-Xylene	ND		7	ug/kg	03/08/24	03/08/24
m&p-Xylene	ND		13	ug/kg	03/08/24	03/08/24
Total xylenes	ND		7	ug/kg	03/08/24	03/08/24
1,1,2,2-Tetrachloroethane	ND		7	ug/kg	03/08/24	03/08/24
tert-Amyl methyl ether	ND		7	ug/kg	03/08/24	03/08/24
1,3-Dichloropropane	ND		7	ug/kg	03/08/24	03/08/24
Ethyl tert-butyl ether	ND		7	ug/kg	03/08/24	03/08/24
Diisopropyl ether	ND		7	ug/kg	03/08/24	03/08/24
Trichlorofluoromethane	ND		7	ug/kg	03/08/24	03/08/24
Dichlorodifluoromethane	ND		7	ug/kg	03/08/24	03/08/24
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Surrogate(s)	Recovery%		Limits			
<i>4-Bromofluorobenzene</i>	<i>93.8%</i>		<i>70-130</i>		03/08/24	03/08/24
<i>1,2-Dichloroethane-d4</i>	<i>102%</i>		<i>70-130</i>		03/08/24	03/08/24
<i>Toluene-d8</i>	<i>92.4%</i>		<i>70-130</i>		03/08/24	03/08/24

Volatile Petroleum Hydrocarbons
Sample: TP-1 18" (4C01011-01)

SAMPLE INFORMATION

Matrix	Soil		
Containers	Satisfactory		
Sample Preservation	Aqueous	NA	
	Soil or Sediment	Preserved with methanol and/or in an air-tight container	
		Methanol preserved (covering sample)	
		Received in air-tight container	
Temperature	Received on Ice Received at: 4+/-2 C°		
		ml methanol per gram soil: 1:1 +/- 25%	

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1	Client ID			TP-1 18"		
Method for Target Analytes: EPA Method 8260C	Lab ID			4C01011-01		
VPH Surrogate Standards: PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene	Date Collected			02/29/24		
	Date Received			03/01/24		
	% Moisture			12.30		
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	10.7	mg/kg	<10.7	03/04/24 20:47
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	13.4	mg/kg	<13.4	03/04/24 20:47
Benzene	C5-C8	50X	0.3	mg/kg	<0.3	03/04/24 20:47
Ethylbenzene	C9-C12	50X	0.3	mg/kg	<0.3	03/04/24 20:47
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.05	mg/kg	<0.05	03/04/24 20:47
Naphthalene	NA	50X	0.5	mg/kg	<0.5	03/04/24 20:47
Toluene	C5-C8	50X	0.3	mg/kg	<0.3	03/04/24 20:47
m&p-Xylene	C9-C12	50X	0.5	mg/kg	<0.5	03/04/24 20:47
o-Xylene	C9-C12	50X	0.5	mg/kg	<0.5	03/04/24 20:47
Total xylenes		50X	0.5	mg/kg	<0.5	03/04/24 20:47
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	10.7	mg/kg	<10.7	03/04/24 20:47
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	13.4	mg/kg	<13.4	03/04/24 20:47
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	13.4	mg/kg	<13.4	03/04/24 20:47
2,5-Dibromotoluene-PID				%	98.5	03/04/24 20:47
2,5-Dibromotoluene-FID				%	94.9	03/04/24 20:47
Surrogate Acceptance Range				%	70-130	

[1] Hydrocarbon Range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C9-C12 Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C9-C10 Aromatic Hydrocarbons

Volatile Petroleum Hydrocarbons
Sample: P-1 4' (4C01011-02)

SAMPLE INFORMATION

Matrix	Soil		
Containers	Satisfactory		
Sample Preservation	Aqueous	NA	
	Soil or Sediment	Preserved with methanol and/or in an air-tight container	
		Methanol preserved (covering sample)	
		Received in air-tight container	
Temperature	Received on Ice Received at: 4+/-2 C°		
		ml methanol per gram soil: 1:1 +/- 25%	

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1	Client ID			P-1 4'		
Method for Target Analytes: EPA Method 8260C	Lab ID			4C01011-02		
VPH Surrogate Standards: PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene	Date Collected			02/29/24		
	Date Received			03/01/24		
	% Moisture			14.50		
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	13.2	mg/kg	<13.2	03/04/24 21:20
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	16.4	mg/kg	<16.4	03/04/24 21:20
Benzene	C5-C8	50X	0.3	mg/kg	<0.3	03/04/24 21:20
Ethylbenzene	C9-C12	50X	0.3	mg/kg	<0.3	03/04/24 21:20
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.07	mg/kg	<0.07	03/04/24 21:20
Naphthalene	NA	50X	0.7	mg/kg	<0.7	03/04/24 21:20
Toluene	C5-C8	50X	0.3	mg/kg	<0.3	03/04/24 21:20
m&p-Xylene	C9-C12	50X	0.7	mg/kg	<0.7	03/04/24 21:20
o-Xylene	C9-C12	50X	0.7	mg/kg	<0.7	03/04/24 21:20
Total xylenes		50X	0.7	mg/kg	<0.7	03/04/24 21:20
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	13.2	mg/kg	<13.2	03/04/24 21:20
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	16.4	mg/kg	<16.4	03/04/24 21:20
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	16.4	mg/kg	<16.4	03/04/24 21:20
2,5-Dibromotoluene-PID				%	95.7	03/04/24 21:20
2,5-Dibromotoluene-FID				%	94.3	03/04/24 21:20
Surrogate Acceptance Range				%	70-130	

[1] Hydrocarbon Range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C9-C12 Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C9-C10 Aromatic Hydrocarbons

Volatile Petroleum Hydrocarbons
Sample: TP-2 18" (4C01011-03)

SAMPLE INFORMATION

Matrix	Soil		
Containers	Satisfactory		
Sample Preservation	Aqueous	NA	
	Soil or Sediment	Preserved with methanol and/or in an air-tight container	
		Methanol preserved (covering sample)	
		Received in air-tight container	
Temperature	Received on Ice Received at: 4+/-2 C°		
		ml methanol per gram soil: 1:1 +/- 25%	

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1	Client ID			TP-2 18"		
Method for Target Analytes: EPA Method 8260C	Lab ID			4C01011-03		
VPH Surrogate Standards: PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene	Date Collected			02/29/24		
	Date Received			03/01/24		
	% Moisture			47.90		
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	42.7	mg/kg	<42.7	03/05/24 01:08
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	53.4	mg/kg	<53.4	03/05/24 01:08
Benzene	C5-C8	50X	1.1	mg/kg	<1.1	03/05/24 01:08
Ethylbenzene	C9-C12	50X	1.1	mg/kg	<1.1	03/05/24 01:08
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.2	mg/kg	<0.2	03/05/24 01:08
Naphthalene	NA	50X	2.1	mg/kg	<2.1	03/05/24 01:08
Toluene	C5-C8	50X	1.1	mg/kg	<1.1	03/05/24 01:08
m&p-Xylene	C9-C12	50X	2.1	mg/kg	<2.1	03/05/24 01:08
o-Xylene	C9-C12	50X	2.1	mg/kg	<2.1	03/05/24 01:08
Total xylenes		50X	2.1	mg/kg	<2.1	03/05/24 01:08
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	42.7	mg/kg	<42.7	03/05/24 01:08
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	53.4	mg/kg	<53.4	03/05/24 01:08
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	53.4	mg/kg	<53.4	03/05/24 01:08
2,5-Dibromotoluene-PID				%	97.6	03/05/24 01:08
2,5-Dibromotoluene-FID				%	95.7	03/05/24 01:08
Surrogate Acceptance Range				%	70-130	

[1] Hydrocarbon Range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C9-C12 Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C9-C10 Aromatic Hydrocarbons

Volatile Petroleum Hydrocarbons
Sample: TP-3 18" (4C01011-04)

SAMPLE INFORMATION

Matrix	Soil		
Containers	Satisfactory		
Sample Preservation	Aqueous	NA	
	Soil or Sediment	Preserved with methanol and/or in an air-tight container	
		Methanol preserved (covering sample)	
		Received in air-tight container	
Temperature	Received on Ice Received at: 4+/-2 C°		
		ml methanol per gram soil: 1:1 +/- 25%	

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1	Client ID			TP-3 18"		
Method for Target Analytes: EPA Method 8260C	Lab ID			4C01011-04		
VPH Surrogate Standards: PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene	Date Collected			02/29/24		
	Date Received			03/01/24		
	% Moisture			76.50		
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	136	mg/kg	<136	03/04/24 22:25
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	170	mg/kg	<170	03/04/24 22:25
Benzene	C5-C8	50X	3.4	mg/kg	<3.4	03/04/24 22:25
Ethylbenzene	C9-C12	50X	3.4	mg/kg	<3.4	03/04/24 22:25
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.7	mg/kg	<0.7	03/04/24 22:25
Naphthalene	NA	50X	6.8	mg/kg	<6.8	03/04/24 22:25
Toluene	C5-C8	50X	3.4	mg/kg	<3.4	03/04/24 22:25
m&p-Xylene	C9-C12	50X	6.8	mg/kg	<6.8	03/04/24 22:25
o-Xylene	C9-C12	50X	6.8	mg/kg	<6.8	03/04/24 22:25
Total xylenes		50X	6.8	mg/kg	<6.8	03/04/24 22:25
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	136	mg/kg	<136	03/04/24 22:25
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	170	mg/kg	<170	03/04/24 22:25
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	170	mg/kg	<170	03/04/24 22:25
2,5-Dibromotoluene-PID				%	100	03/04/24 22:25
2,5-Dibromotoluene-FID				%	95.7	03/04/24 22:25
Surrogate Acceptance Range				%	70-130	

[1] Hydrocarbon Range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C9-C12 Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C9-C10 Aromatic Hydrocarbons

Volatile Petroleum Hydrocarbons
Sample: TP-4" (4C01011-05)

SAMPLE INFORMATION

Matrix	Soil		
Containers	Satisfactory		
Sample Preservation	Aqueous	NA	
	Soil or Sediment	Preserved with methanol and/or in an air-tight container	
		Methanol preserved (covering sample)	
		Received in air-tight container	
Temperature	Received on Ice Received at: 4+/-2 C°		
		ml methanol per gram soil: 1:1 +/- 25%	

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1	Client ID			TP-4"		
Method for Target Analytes: EPA Method 8260C	Lab ID			4C01011-05		
VPH Surrogate Standards: PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene	Date Collected			02/29/24		
	Date Received			03/01/24		
	% Moisture			71.60		
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	92.8	mg/kg	<92.8	03/04/24 23:30
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	116	mg/kg	<116	03/04/24 23:30
Benzene	C5-C8	50X	2.3	mg/kg	<2.3	03/04/24 23:30
Ethylbenzene	C9-C12	50X	2.3	mg/kg	<2.3	03/04/24 23:30
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.5	mg/kg	<0.5	03/04/24 23:30
Naphthalene	NA	50X	4.6	mg/kg	<4.6	03/04/24 23:30
Toluene	C5-C8	50X	2.3	mg/kg	<2.3	03/04/24 23:30
m&p-Xylene	C9-C12	50X	4.6	mg/kg	<4.6	03/04/24 23:30
o-Xylene	C9-C12	50X	4.6	mg/kg	<4.6	03/04/24 23:30
Total xylenes		50X	4.6	mg/kg	<4.6	03/04/24 23:30
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	92.8	mg/kg	<92.8	03/04/24 23:30
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	116	mg/kg	<116	03/04/24 23:30
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	116	mg/kg	<116	03/04/24 23:30
2,5-Dibromotoluene-PID				%	102	03/04/24 23:30
2,5-Dibromotoluene-FID				%	96.6	03/04/24 23:30
Surrogate Acceptance Range				%	70-130	

[1] Hydrocarbon Range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C9-C12 Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C9-C10 Aromatic Hydrocarbons

Volatile Petroleum Hydrocarbons
Sample: P-2 4' (4C01011-06)

SAMPLE INFORMATION

Matrix	Soil		
Containers	Satisfactory		
Sample Preservation	Aqueous	NA	
	Soil or Sediment	Preserved with methanol and/or in an air-tight container	
		Methanol preserved (covering sample)	
		Received in air-tight container	
Temperature	Received on Ice Received at: 4+/-2 C°		
		ml methanol per gram soil: 1:1 +/- 25%	

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1	Client ID			P-2 4'		
Method for Target Analytes: EPA Method 8260C	Lab ID			4C01011-06		
VPH Surrogate Standards: PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene	Date Collected			02/29/24		
	Date Received			03/01/24		
	% Moisture			27.00		
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	15.3	mg/kg	<15.3	03/04/24 22:58
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	19.1	mg/kg	<19.1	03/04/24 22:58
Benzene	C5-C8	50X	0.4	mg/kg	<0.4	03/04/24 22:58
Ethylbenzene	C9-C12	50X	0.4	mg/kg	<0.4	03/04/24 22:58
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.08	mg/kg	<0.08	03/04/24 22:58
Naphthalene	NA	50X	0.8	mg/kg	<0.8	03/04/24 22:58
Toluene	C5-C8	50X	0.4	mg/kg	<0.4	03/04/24 22:58
m&p-Xylene	C9-C12	50X	0.8	mg/kg	<0.8	03/04/24 22:58
o-Xylene	C9-C12	50X	0.8	mg/kg	<0.8	03/04/24 22:58
Total xylenes		50X	0.8	mg/kg	<0.8	03/04/24 22:58
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	15.3	mg/kg	<15.3	03/04/24 22:58
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	19.1	mg/kg	<19.1	03/04/24 22:58
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	19.1	mg/kg	<19.1	03/04/24 22:58
2,5-Dibromotoluene-PID				%	95.5	03/04/24 22:58
2,5-Dibromotoluene-FID				%	93.4	03/04/24 22:58
Surrogate Acceptance Range				%	70-130	

[1] Hydrocarbon Range data excludes concentrations of any surrogate(s) and/or internal standards eluting in that range

[2] C5-C8 Aliphatic Hydrocarbons exclude the concentration of Target Analytes eluting in that range

[3] C9-C12 Aliphatic Hydrocarbons exclude conc of Target Analytes eluting in that range AND concentration of C9-C10 Aromatic Hydrocarbons

Results: Semivolatile organic compounds

Sample: TP-1 18"

Lab Number: 4C01011-01 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
1,2,4-Trichlorobenzene	ND		148	ug/kg	03/04/24	03/05/24
1,2-Dichlorobenzene	ND		148	ug/kg	03/04/24	03/05/24
1,3-Dichlorobenzene	ND		148	ug/kg	03/04/24	03/05/24
1,4-Dichlorobenzene	ND		148	ug/kg	03/04/24	03/05/24
Phenol	ND		148	ug/kg	03/04/24	03/05/24
2,4,5-Trichlorophenol	ND		148	ug/kg	03/04/24	03/05/24
2,4,6-Trichlorophenol	ND		148	ug/kg	03/04/24	03/05/24
2,4-Dichlorophenol	ND		148	ug/kg	03/04/24	03/05/24
2,4-Dimethylphenol	ND		376	ug/kg	03/04/24	03/05/24
2,4-Dinitrophenol	ND		376	ug/kg	03/04/24	03/05/24
2,4-Dinitrotoluene	ND		148	ug/kg	03/04/24	03/05/24
2,6-Dinitrotoluene	ND		148	ug/kg	03/04/24	03/05/24
2-Chloronaphthalene	ND		148	ug/kg	03/04/24	03/05/24
2-Chlorophenol	ND		148	ug/kg	03/04/24	03/05/24
2-Methylnaphthalene	ND		148	ug/kg	03/04/24	03/05/24
Nitrobenzene	ND		148	ug/kg	03/04/24	03/05/24
2-Methylphenol	ND		148	ug/kg	03/04/24	03/05/24
2-Nitroaniline	ND		148	ug/kg	03/04/24	03/05/24
2-Nitrophenol	ND		376	ug/kg	03/04/24	03/05/24
3,3'-Dichlorobenzidine	ND		376	ug/kg	03/04/24	03/05/24
3-Nitroaniline	ND		148	ug/kg	03/04/24	03/05/24
4,6-Dinitro-2-methylphenol	ND		376	ug/kg	03/04/24	03/05/24
4-Bromophenyl phenyl ether	ND		148	ug/kg	03/04/24	03/05/24
4-Chloro-3-methylphenol	ND		148	ug/kg	03/04/24	03/05/24
4-Chloroaniline	ND		148	ug/kg	03/04/24	03/05/24
4-Chlorophenyl phenyl ether	ND		148	ug/kg	03/04/24	03/05/24
4-Nitroaniline	ND		148	ug/kg	03/04/24	03/05/24
4-Nitrophenol	ND		376	ug/kg	03/04/24	03/05/24
Acenaphthene	ND		148	ug/kg	03/04/24	03/05/24
Acenaphthylene	ND		148	ug/kg	03/04/24	03/05/24
Aniline	ND		148	ug/kg	03/04/24	03/05/24
Anthracene	ND		148	ug/kg	03/04/24	03/05/24
Benzo(a)anthracene	ND		148	ug/kg	03/04/24	03/05/24
Benzo(a)pyrene	ND		148	ug/kg	03/04/24	03/05/24
Benzo(b)fluoranthene	ND		148	ug/kg	03/04/24	03/05/24
Benzo(g,h,i)perylene	ND		148	ug/kg	03/04/24	03/05/24
Benzo(k)fluoranthene	ND		148	ug/kg	03/04/24	03/05/24
Benzoic acid	ND		1140	ug/kg	03/04/24	03/05/24
Biphenyl	ND		23	ug/kg	03/04/24	03/05/24
Bis(2-chloroethoxy)methane	ND		148	ug/kg	03/04/24	03/05/24
Bis(2-chloroethyl)ether	ND		148	ug/kg	03/04/24	03/05/24
Bis(2-chloroisopropyl)ether	ND		148	ug/kg	03/04/24	03/05/24
Bis(2-ethylhexyl)phthalate	ND		456	ug/kg	03/04/24	03/05/24
Butyl benzyl phthalate	ND		148	ug/kg	03/04/24	03/05/24
Chrysene	ND		148	ug/kg	03/04/24	03/05/24
Di-n-octyl phthalate	ND		228	ug/kg	03/04/24	03/05/24
Dibenz(a,h)anthracene	ND		148	ug/kg	03/04/24	03/05/24

Results: Semivolatile organic compounds (Continued)

Sample: TP-1 18" (Continued)

Lab Number: 4C01011-01 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Dibenzofuran	ND		148	ug/kg	03/04/24	03/05/24
Diethyl phthalate	ND		148	ug/kg	03/04/24	03/05/24
Dimethyl phthalate	ND		376	ug/kg	03/04/24	03/05/24
Di-n-butyl phthalate	ND		228	ug/kg	03/04/24	03/05/24
Fluoranthene	ND		148	ug/kg	03/04/24	03/05/24
Fluorene	ND		148	ug/kg	03/04/24	03/05/24
Hexachlorobenzene	ND		148	ug/kg	03/04/24	03/05/24
Hexachlorobutadiene	ND		148	ug/kg	03/04/24	03/05/24
Hexachlorocyclopentadiene	ND		376	ug/kg	03/04/24	03/05/24
Hexachloroethane	ND		148	ug/kg	03/04/24	03/05/24
Indeno(1,2,3-cd)pyrene	ND		148	ug/kg	03/04/24	03/05/24
Isophorone	ND		148	ug/kg	03/04/24	03/05/24
Naphthalene	ND		148	ug/kg	03/04/24	03/05/24
N-Nitrosodimethylamine	ND		148	ug/kg	03/04/24	03/05/24
N-Nitrosodi-n-propylamine	ND		148	ug/kg	03/04/24	03/05/24
N-Nitrosodiphenylamine	ND		148	ug/kg	03/04/24	03/05/24
Pentachlorophenol	ND		376	ug/kg	03/04/24	03/05/24
Phenanthrene	ND		148	ug/kg	03/04/24	03/05/24
Pyrene	ND		148	ug/kg	03/04/24	03/05/24
m&p-Cresol	ND		296	ug/kg	03/04/24	03/05/24
Pyridine	ND		148	ug/kg	03/04/24	03/05/24
Azobenzene	ND		148	ug/kg	03/04/24	03/05/24
Total Dichlorobenzene	ND		148	ug/kg	03/04/24	03/05/24
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Surrogate(s)	Recovery%		Limits			
<i>Nitrobenzene-d5</i>	72.2%		30-126		03/04/24	03/05/24
<i>p-Terphenyl-d14</i>	81.7%		47-130		03/04/24	03/05/24
<i>2-Fluorobiphenyl</i>	75.3%		34-130		03/04/24	03/05/24
<i>Phenol-d6</i>	71.8%		30-130		03/04/24	03/05/24
<i>2,4,6-Tribromophenol</i>	70.1%		30-130		03/04/24	03/05/24
<i>2-Fluorophenol</i>	74.4%		30-130		03/04/24	03/05/24

Results: Semivolatile organic compounds

Sample: P-1 4'

Lab Number: 4C01011-02 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
1,2,4-Trichlorobenzene	ND		152	ug/kg	03/04/24	03/05/24
1,2-Dichlorobenzene	ND		152	ug/kg	03/04/24	03/05/24
1,3-Dichlorobenzene	ND		152	ug/kg	03/04/24	03/05/24
1,4-Dichlorobenzene	ND		152	ug/kg	03/04/24	03/05/24
Phenol	ND		152	ug/kg	03/04/24	03/05/24
2,4,5-Trichlorophenol	ND		152	ug/kg	03/04/24	03/05/24
2,4,6-Trichlorophenol	ND		152	ug/kg	03/04/24	03/05/24
2,4-Dichlorophenol	ND		152	ug/kg	03/04/24	03/05/24
2,4-Dimethylphenol	ND		386	ug/kg	03/04/24	03/05/24
2,4-Dinitrophenol	ND		386	ug/kg	03/04/24	03/05/24
2,4-Dinitrotoluene	ND		152	ug/kg	03/04/24	03/05/24
2,6-Dinitrotoluene	ND		152	ug/kg	03/04/24	03/05/24
2-Chloronaphthalene	ND		152	ug/kg	03/04/24	03/05/24
2-Chlorophenol	ND		152	ug/kg	03/04/24	03/05/24
2-Methylnaphthalene	ND		152	ug/kg	03/04/24	03/05/24
Nitrobenzene	ND		152	ug/kg	03/04/24	03/05/24
2-Methylphenol	ND		152	ug/kg	03/04/24	03/05/24
2-Nitroaniline	ND		152	ug/kg	03/04/24	03/05/24
2-Nitrophenol	ND		386	ug/kg	03/04/24	03/05/24
3,3'-Dichlorobenzidine	ND		386	ug/kg	03/04/24	03/05/24
3-Nitroaniline	ND		152	ug/kg	03/04/24	03/05/24
4,6-Dinitro-2-methylphenol	ND		386	ug/kg	03/04/24	03/05/24
4-Bromophenyl phenyl ether	ND		152	ug/kg	03/04/24	03/05/24
4-Chloro-3-methylphenol	ND		152	ug/kg	03/04/24	03/05/24
4-Chloroaniline	ND		152	ug/kg	03/04/24	03/05/24
4-Chlorophenyl phenyl ether	ND		152	ug/kg	03/04/24	03/05/24
4-Nitroaniline	ND		152	ug/kg	03/04/24	03/05/24
4-Nitrophenol	ND		386	ug/kg	03/04/24	03/05/24
Acenaphthene	ND		152	ug/kg	03/04/24	03/05/24
Acenaphthylene	ND		152	ug/kg	03/04/24	03/05/24
Aniline	ND		152	ug/kg	03/04/24	03/05/24
Anthracene	ND		152	ug/kg	03/04/24	03/05/24
Benzo(a)anthracene	ND		152	ug/kg	03/04/24	03/05/24
Benzo(a)pyrene	ND		152	ug/kg	03/04/24	03/05/24
Benzo(b)fluoranthene	ND		152	ug/kg	03/04/24	03/05/24
Benzo(g,h,i)perylene	ND		152	ug/kg	03/04/24	03/05/24
Benzo(k)fluoranthene	ND		152	ug/kg	03/04/24	03/05/24
Benzoic acid	ND		1170	ug/kg	03/04/24	03/05/24
Biphenyl	ND		23	ug/kg	03/04/24	03/05/24
Bis(2-chloroethoxy)methane	ND		152	ug/kg	03/04/24	03/05/24
Bis(2-chloroethyl)ether	ND		152	ug/kg	03/04/24	03/05/24
Bis(2-chloroisopropyl)ether	ND		152	ug/kg	03/04/24	03/05/24
Bis(2-ethylhexyl)phthalate	ND		468	ug/kg	03/04/24	03/05/24
Butyl benzyl phthalate	ND		152	ug/kg	03/04/24	03/05/24
Chrysene	ND		152	ug/kg	03/04/24	03/05/24
Di-n-octyl phthalate	ND		234	ug/kg	03/04/24	03/05/24
Dibenz(a,h)anthracene	ND		152	ug/kg	03/04/24	03/05/24

Results: Semivolatile organic compounds (Continued)

Sample: P-1 4' (Continued)

Lab Number: 4C01011-02 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Dibenzofuran	ND		152	ug/kg	03/04/24	03/05/24
Diethyl phthalate	ND		152	ug/kg	03/04/24	03/05/24
Dimethyl phthalate	ND		386	ug/kg	03/04/24	03/05/24
Di-n-butyl phthalate	ND		234	ug/kg	03/04/24	03/05/24
Fluoranthene	ND		152	ug/kg	03/04/24	03/05/24
Fluorene	ND		152	ug/kg	03/04/24	03/05/24
Hexachlorobenzene	ND		152	ug/kg	03/04/24	03/05/24
Hexachlorobutadiene	ND		152	ug/kg	03/04/24	03/05/24
Hexachlorocyclopentadiene	ND		386	ug/kg	03/04/24	03/05/24
Hexachloroethane	ND		152	ug/kg	03/04/24	03/05/24
Indeno(1,2,3-cd)pyrene	ND		152	ug/kg	03/04/24	03/05/24
Isophorone	ND		152	ug/kg	03/04/24	03/05/24
Naphthalene	ND		152	ug/kg	03/04/24	03/05/24
N-Nitrosodimethylamine	ND		152	ug/kg	03/04/24	03/05/24
N-Nitrosodi-n-propylamine	ND		152	ug/kg	03/04/24	03/05/24
N-Nitrosodiphenylamine	ND		152	ug/kg	03/04/24	03/05/24
Pentachlorophenol	ND		386	ug/kg	03/04/24	03/05/24
Phenanthrene	ND		152	ug/kg	03/04/24	03/05/24
Pyrene	ND		152	ug/kg	03/04/24	03/05/24
m&p-Cresol	ND		304	ug/kg	03/04/24	03/05/24
Pyridine	ND		152	ug/kg	03/04/24	03/05/24
Azobenzene	ND		152	ug/kg	03/04/24	03/05/24
Total Dichlorobenzene	ND		152	ug/kg	03/04/24	03/05/24
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Surrogate(s)	Recovery%		Limits			
<hr/>						
<i>Nitrobenzene-d5</i>	68.7%		30-126		03/04/24	03/05/24
<i>p-Terphenyl-d14</i>	81.2%		47-130		03/04/24	03/05/24
<i>2-Fluorobiphenyl</i>	71.3%		34-130		03/04/24	03/05/24
<i>Phenol-d6</i>	67.5%		30-130		03/04/24	03/05/24
<i>2,4,6-Tribromophenol</i>	71.7%		30-130		03/04/24	03/05/24
<i>2-Fluorophenol</i>	69.8%		30-130		03/04/24	03/05/24

Results: Semivolatile organic compounds

Sample: TP-2 18"

Lab Number: 4C01011-03 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
1,2,4-Trichlorobenzene	ND		1250	ug/kg	03/04/24	03/06/24
1,2-Dichlorobenzene	ND		1250	ug/kg	03/04/24	03/06/24
1,3-Dichlorobenzene	ND		1250	ug/kg	03/04/24	03/06/24
1,4-Dichlorobenzene	ND		1250	ug/kg	03/04/24	03/06/24
Phenol	ND		1250	ug/kg	03/04/24	03/06/24
2,4,5-Trichlorophenol	ND		1250	ug/kg	03/04/24	03/06/24
2,4,6-Trichlorophenol	ND		1250	ug/kg	03/04/24	03/06/24
2,4-Dichlorophenol	ND		1250	ug/kg	03/04/24	03/06/24
2,4-Dimethylphenol	ND		3160	ug/kg	03/04/24	03/06/24
2,4-Dinitrophenol	ND		3160	ug/kg	03/04/24	03/06/24
2,4-Dinitrotoluene	ND		1250	ug/kg	03/04/24	03/06/24
2,6-Dinitrotoluene	ND		1250	ug/kg	03/04/24	03/06/24
2-Chloronaphthalene	ND		1250	ug/kg	03/04/24	03/06/24
2-Chlorophenol	ND		1250	ug/kg	03/04/24	03/06/24
2-Methylnaphthalene	ND		1250	ug/kg	03/04/24	03/06/24
Nitrobenzene	ND		1250	ug/kg	03/04/24	03/06/24
2-Methylphenol	ND		1250	ug/kg	03/04/24	03/06/24
2-Nitroaniline	ND		1250	ug/kg	03/04/24	03/06/24
2-Nitrophenol	ND		3160	ug/kg	03/04/24	03/06/24
3,3'-Dichlorobenzidine	ND		3160	ug/kg	03/04/24	03/06/24
3-Nitroaniline	ND		1250	ug/kg	03/04/24	03/06/24
4,6-Dinitro-2-methylphenol	ND		3160	ug/kg	03/04/24	03/06/24
4-Bromophenyl phenyl ether	ND		1250	ug/kg	03/04/24	03/06/24
4-Chloro-3-methylphenol	ND		1250	ug/kg	03/04/24	03/06/24
4-Chloroaniline	ND		1250	ug/kg	03/04/24	03/06/24
4-Chlorophenyl phenyl ether	ND		1250	ug/kg	03/04/24	03/06/24
4-Nitroaniline	ND		1250	ug/kg	03/04/24	03/06/24
4-Nitrophenol	ND		3160	ug/kg	03/04/24	03/06/24
Acenaphthene	ND		1250	ug/kg	03/04/24	03/06/24
Acenaphthylene	ND		1250	ug/kg	03/04/24	03/06/24
Aniline	ND		1250	ug/kg	03/04/24	03/06/24
Anthracene	ND		1250	ug/kg	03/04/24	03/06/24
Benzo(a)anthracene	ND		1250	ug/kg	03/04/24	03/06/24
Benzo(a)pyrene	ND		1250	ug/kg	03/04/24	03/06/24
Benzo(b)fluoranthene	ND		1250	ug/kg	03/04/24	03/06/24
Benzo(g,h,i)perylene	ND		1250	ug/kg	03/04/24	03/06/24
Benzo(k)fluoranthene	ND		1250	ug/kg	03/04/24	03/06/24
Benzoic acid	ND		9590	ug/kg	03/04/24	03/06/24
Biphenyl	ND		192	ug/kg	03/04/24	03/06/24
Bis(2-chloroethoxy)methane	ND		1250	ug/kg	03/04/24	03/06/24
Bis(2-chloroethyl)ether	ND		1250	ug/kg	03/04/24	03/06/24
Bis(2-chloroisopropyl)ether	ND		1250	ug/kg	03/04/24	03/06/24
Bis(2-ethylhexyl)phthalate	ND		3840	ug/kg	03/04/24	03/06/24
Butyl benzyl phthalate	ND		1250	ug/kg	03/04/24	03/06/24
Chrysene	ND		1250	ug/kg	03/04/24	03/06/24
Di-n-octyl phthalate	ND		1920	ug/kg	03/04/24	03/06/24
Dibenz(a,h)anthracene	ND		1250	ug/kg	03/04/24	03/06/24

Results: Semivolatile organic compounds (Continued)

Sample: TP-2 18" (Continued)

Lab Number: 4C01011-03 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Dibenzofuran	ND		1250	ug/kg	03/04/24	03/06/24
Diethyl phthalate	ND		1250	ug/kg	03/04/24	03/06/24
Dimethyl phthalate	ND		3160	ug/kg	03/04/24	03/06/24
Di-n-butyl phthalate	ND		1920	ug/kg	03/04/24	03/06/24
Fluoranthene	ND		1250	ug/kg	03/04/24	03/06/24
Fluorene	ND		1250	ug/kg	03/04/24	03/06/24
Hexachlorobenzene	ND		1250	ug/kg	03/04/24	03/06/24
Hexachlorobutadiene	ND		1250	ug/kg	03/04/24	03/06/24
Hexachlorocyclopentadiene	ND		3160	ug/kg	03/04/24	03/06/24
Hexachloroethane	ND		1250	ug/kg	03/04/24	03/06/24
Indeno(1,2,3-cd)pyrene	ND		1250	ug/kg	03/04/24	03/06/24
Isophorone	ND		1250	ug/kg	03/04/24	03/06/24
Naphthalene	ND		1250	ug/kg	03/04/24	03/06/24
N-Nitrosodimethylamine	ND		1250	ug/kg	03/04/24	03/06/24
N-Nitrosodi-n-propylamine	ND		1250	ug/kg	03/04/24	03/06/24
N-Nitrosodiphenylamine	ND		1250	ug/kg	03/04/24	03/06/24
Pentachlorophenol	ND		3160	ug/kg	03/04/24	03/06/24
Phenanthrene	ND		1250	ug/kg	03/04/24	03/06/24
Pyrene	ND		1250	ug/kg	03/04/24	03/06/24
m&p-Cresol	ND		2490	ug/kg	03/04/24	03/06/24
Pyridine	ND		1250	ug/kg	03/04/24	03/06/24
Azobenzene	ND		1250	ug/kg	03/04/24	03/06/24
Total Dichlorobenzene	ND		1250	ug/kg	03/04/24	03/06/24
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Surrogate(s)	Recovery%		Limits			
<i>Nitrobenzene-d5</i>	71.8%		30-126		03/04/24	03/06/24
<i>p-Terphenyl-d14</i>	99.1%		47-130		03/04/24	03/06/24
<i>2-Fluorobiphenyl</i>	82.6%		34-130		03/04/24	03/06/24
<i>Phenol-d6</i>	70.6%		30-130		03/04/24	03/06/24
<i>2,4,6-Tribromophenol</i>	74.1%		30-130		03/04/24	03/06/24
<i>2-Fluorophenol</i>	74.3%		30-130		03/04/24	03/06/24

Results: Semivolatile organic compounds

Sample: TP-3 18"

Lab Number: 4C01011-04 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
1,2,4-Trichlorobenzene	ND		553	ug/kg	03/04/24	03/05/24
1,2-Dichlorobenzene	ND		553	ug/kg	03/04/24	03/05/24
1,3-Dichlorobenzene	ND		553	ug/kg	03/04/24	03/05/24
1,4-Dichlorobenzene	ND		553	ug/kg	03/04/24	03/05/24
Phenol	ND		553	ug/kg	03/04/24	03/05/24
2,4,5-Trichlorophenol	ND		553	ug/kg	03/04/24	03/05/24
2,4,6-Trichlorophenol	ND		553	ug/kg	03/04/24	03/05/24
2,4-Dichlorophenol	ND		553	ug/kg	03/04/24	03/05/24
2,4-Dimethylphenol	ND		1400	ug/kg	03/04/24	03/05/24
2,4-Dinitrophenol	ND		1400	ug/kg	03/04/24	03/05/24
2,4-Dinitrotoluene	ND		553	ug/kg	03/04/24	03/05/24
2,6-Dinitrotoluene	ND		553	ug/kg	03/04/24	03/05/24
2-Chloronaphthalene	ND		553	ug/kg	03/04/24	03/05/24
2-Chlorophenol	ND		553	ug/kg	03/04/24	03/05/24
2-Methylnaphthalene	ND		553	ug/kg	03/04/24	03/05/24
Nitrobenzene	ND		553	ug/kg	03/04/24	03/05/24
2-Methylphenol	ND		553	ug/kg	03/04/24	03/05/24
2-Nitroaniline	ND		553	ug/kg	03/04/24	03/05/24
2-Nitrophenol	ND		1400	ug/kg	03/04/24	03/05/24
3,3'-Dichlorobenzidine	ND		1400	ug/kg	03/04/24	03/05/24
3-Nitroaniline	ND		553	ug/kg	03/04/24	03/05/24
4,6-Dinitro-2-methylphenol	ND		1400	ug/kg	03/04/24	03/05/24
4-Bromophenyl phenyl ether	ND		553	ug/kg	03/04/24	03/05/24
4-Chloro-3-methylphenol	ND		553	ug/kg	03/04/24	03/05/24
4-Chloroaniline	ND		553	ug/kg	03/04/24	03/05/24
4-Chlorophenyl phenyl ether	ND		553	ug/kg	03/04/24	03/05/24
4-Nitroaniline	ND		553	ug/kg	03/04/24	03/05/24
4-Nitrophenol	ND		1400	ug/kg	03/04/24	03/05/24
Acenaphthene	ND		553	ug/kg	03/04/24	03/05/24
Acenaphthylene	ND		553	ug/kg	03/04/24	03/05/24
Aniline	ND		553	ug/kg	03/04/24	03/05/24
Anthracene	ND		553	ug/kg	03/04/24	03/05/24
Benzo(a)anthracene	ND		553	ug/kg	03/04/24	03/05/24
Benzo(a)pyrene	ND		553	ug/kg	03/04/24	03/05/24
Benzo(b)fluoranthene	ND		553	ug/kg	03/04/24	03/05/24
Benzo(g,h,i)perylene	ND		553	ug/kg	03/04/24	03/05/24
Benzo(k)fluoranthene	ND		553	ug/kg	03/04/24	03/05/24
Benzoic acid	ND		4250	ug/kg	03/04/24	03/05/24
Biphenyl	ND		85	ug/kg	03/04/24	03/05/24
Bis(2-chloroethoxy)methane	ND		553	ug/kg	03/04/24	03/05/24
Bis(2-chloroethyl)ether	ND		553	ug/kg	03/04/24	03/05/24
Bis(2-chloroisopropyl)ether	ND		553	ug/kg	03/04/24	03/05/24
Bis(2-ethylhexyl)phthalate	ND		1700	ug/kg	03/04/24	03/05/24
Butyl benzyl phthalate	ND		553	ug/kg	03/04/24	03/05/24
Chrysene	ND		553	ug/kg	03/04/24	03/05/24
Di-n-octyl phthalate	ND		851	ug/kg	03/04/24	03/05/24
Dibenz(a,h)anthracene	ND		553	ug/kg	03/04/24	03/05/24

Results: Semivolatile organic compounds (Continued)

Sample: TP-3 18" (Continued)

Lab Number: 4C01011-04 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Dibenzofuran	ND		553	ug/kg	03/04/24	03/05/24
Diethyl phthalate	ND		553	ug/kg	03/04/24	03/05/24
Dimethyl phthalate	ND		1400	ug/kg	03/04/24	03/05/24
Di-n-butyl phthalate	ND		851	ug/kg	03/04/24	03/05/24
Fluoranthene	ND		553	ug/kg	03/04/24	03/05/24
Fluorene	ND		553	ug/kg	03/04/24	03/05/24
Hexachlorobenzene	ND		553	ug/kg	03/04/24	03/05/24
Hexachlorobutadiene	ND		553	ug/kg	03/04/24	03/05/24
Hexachlorocyclopentadiene	ND		1400	ug/kg	03/04/24	03/05/24
Hexachloroethane	ND		553	ug/kg	03/04/24	03/05/24
Indeno(1,2,3-cd)pyrene	ND		553	ug/kg	03/04/24	03/05/24
Isophorone	ND		553	ug/kg	03/04/24	03/05/24
Naphthalene	ND		553	ug/kg	03/04/24	03/05/24
N-Nitrosodimethylamine	ND		553	ug/kg	03/04/24	03/05/24
N-Nitrosodi-n-propylamine	ND		553	ug/kg	03/04/24	03/05/24
N-Nitrosodiphenylamine	ND		553	ug/kg	03/04/24	03/05/24
Pentachlorophenol	ND		1400	ug/kg	03/04/24	03/05/24
Phenanthrene	ND		553	ug/kg	03/04/24	03/05/24
Pyrene	ND		553	ug/kg	03/04/24	03/05/24
m&p-Cresol	ND		1110	ug/kg	03/04/24	03/05/24
Pyridine	ND		553	ug/kg	03/04/24	03/05/24
Azobenzene	ND		553	ug/kg	03/04/24	03/05/24
Total Dichlorobenzene	ND		553	ug/kg	03/04/24	03/05/24
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Surrogate(s)	Recovery%		Limits			
<i>Nitrobenzene-d5</i>	42.7%		30-126		03/04/24	03/05/24
<i>p-Terphenyl-d14</i>	60.1%		47-130		03/04/24	03/05/24
<i>2-Fluorobiphenyl</i>	47.6%		34-130		03/04/24	03/05/24
<i>Phenol-d6</i>	41.3%		30-130		03/04/24	03/05/24
<i>2,4,6-Tribromophenol</i>	43.8%		30-130		03/04/24	03/05/24
<i>2-Fluorophenol</i>	41.3%		30-130		03/04/24	03/05/24

Results: Semivolatile organic compounds

Sample: TP-4"

Lab Number: 4C01011-05 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
1,2,4-Trichlorobenzene	ND		458	ug/kg	03/04/24	03/05/24
1,2-Dichlorobenzene	ND		458	ug/kg	03/04/24	03/05/24
1,3-Dichlorobenzene	ND		458	ug/kg	03/04/24	03/05/24
1,4-Dichlorobenzene	ND		458	ug/kg	03/04/24	03/05/24
Phenol	ND		458	ug/kg	03/04/24	03/05/24
2,4,5-Trichlorophenol	ND		458	ug/kg	03/04/24	03/05/24
2,4,6-Trichlorophenol	ND		458	ug/kg	03/04/24	03/05/24
2,4-Dichlorophenol	ND		458	ug/kg	03/04/24	03/05/24
2,4-Dimethylphenol	ND		1160	ug/kg	03/04/24	03/05/24
2,4-Dinitrophenol	ND		1160	ug/kg	03/04/24	03/05/24
2,4-Dinitrotoluene	ND		458	ug/kg	03/04/24	03/05/24
2,6-Dinitrotoluene	ND		458	ug/kg	03/04/24	03/05/24
2-Chloronaphthalene	ND		458	ug/kg	03/04/24	03/05/24
2-Chlorophenol	ND		458	ug/kg	03/04/24	03/05/24
2-Methylnaphthalene	ND		458	ug/kg	03/04/24	03/05/24
Nitrobenzene	ND		458	ug/kg	03/04/24	03/05/24
2-Methylphenol	ND		458	ug/kg	03/04/24	03/05/24
2-Nitroaniline	ND		458	ug/kg	03/04/24	03/05/24
2-Nitrophenol	ND		1160	ug/kg	03/04/24	03/05/24
3,3'-Dichlorobenzidine	ND		1160	ug/kg	03/04/24	03/05/24
3-Nitroaniline	ND		458	ug/kg	03/04/24	03/05/24
4,6-Dinitro-2-methylphenol	ND		1160	ug/kg	03/04/24	03/05/24
4-Bromophenyl phenyl ether	ND		458	ug/kg	03/04/24	03/05/24
4-Chloro-3-methylphenol	ND		458	ug/kg	03/04/24	03/05/24
4-Chloroaniline	ND		458	ug/kg	03/04/24	03/05/24
4-Chlorophenyl phenyl ether	ND		458	ug/kg	03/04/24	03/05/24
4-Nitroaniline	ND		458	ug/kg	03/04/24	03/05/24
4-Nitrophenol	ND		1160	ug/kg	03/04/24	03/05/24
Acenaphthene	ND		458	ug/kg	03/04/24	03/05/24
Acenaphthylene	ND		458	ug/kg	03/04/24	03/05/24
Aniline	ND		458	ug/kg	03/04/24	03/05/24
Anthracene	ND		458	ug/kg	03/04/24	03/05/24
Benzo(a)anthracene	ND		458	ug/kg	03/04/24	03/05/24
Benzo(a)pyrene	ND		458	ug/kg	03/04/24	03/05/24
Benzo(b)fluoranthene	ND		458	ug/kg	03/04/24	03/05/24
Benzo(g,h,i)perylene	ND		458	ug/kg	03/04/24	03/05/24
Benzo(k)fluoranthene	ND		458	ug/kg	03/04/24	03/05/24
Benzoic acid	ND		3530	ug/kg	03/04/24	03/05/24
Biphenyl	ND		71	ug/kg	03/04/24	03/05/24
Bis(2-chloroethoxy)methane	ND		458	ug/kg	03/04/24	03/05/24
Bis(2-chloroethyl)ether	ND		458	ug/kg	03/04/24	03/05/24
Bis(2-chloroisopropyl)ether	ND		458	ug/kg	03/04/24	03/05/24
Bis(2-ethylhexyl)phthalate	ND		1410	ug/kg	03/04/24	03/05/24
Butyl benzyl phthalate	ND		458	ug/kg	03/04/24	03/05/24
Chrysene	ND		458	ug/kg	03/04/24	03/05/24
Di-n-octyl phthalate	ND		705	ug/kg	03/04/24	03/05/24
Dibenz(a,h)anthracene	ND		458	ug/kg	03/04/24	03/05/24

Results: Semivolatile organic compounds (Continued)

Sample: TP-4" (Continued)

Lab Number: 4C01011-05 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Dibenzofuran	ND		458	ug/kg	03/04/24	03/05/24
Diethyl phthalate	ND		458	ug/kg	03/04/24	03/05/24
Dimethyl phthalate	ND		1160	ug/kg	03/04/24	03/05/24
Di-n-butyl phthalate	ND		705	ug/kg	03/04/24	03/05/24
Fluoranthene	ND		458	ug/kg	03/04/24	03/05/24
Fluorene	ND		458	ug/kg	03/04/24	03/05/24
Hexachlorobenzene	ND		458	ug/kg	03/04/24	03/05/24
Hexachlorobutadiene	ND		458	ug/kg	03/04/24	03/05/24
Hexachlorocyclopentadiene	ND		1160	ug/kg	03/04/24	03/05/24
Hexachloroethane	ND		458	ug/kg	03/04/24	03/05/24
Indeno(1,2,3-cd)pyrene	ND		458	ug/kg	03/04/24	03/05/24
Isophorone	ND		458	ug/kg	03/04/24	03/05/24
Naphthalene	ND		458	ug/kg	03/04/24	03/05/24
N-Nitrosodimethylamine	ND		458	ug/kg	03/04/24	03/05/24
N-Nitrosodi-n-propylamine	ND		458	ug/kg	03/04/24	03/05/24
N-Nitrosodiphenylamine	ND		458	ug/kg	03/04/24	03/05/24
Pentachlorophenol	ND		1160	ug/kg	03/04/24	03/05/24
Phenanthrene	ND		458	ug/kg	03/04/24	03/05/24
Pyrene	ND		458	ug/kg	03/04/24	03/05/24
m&p-Cresol	ND		917	ug/kg	03/04/24	03/05/24
Pyridine	ND		458	ug/kg	03/04/24	03/05/24
Azobenzene	ND		458	ug/kg	03/04/24	03/05/24
Total Dichlorobenzene	ND		458	ug/kg	03/04/24	03/05/24
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Surrogate(s)	Recovery%		Limits			
<i>Nitrobenzene-d5</i>	71.1%		30-126		03/04/24	03/05/24
<i>p-Terphenyl-d14</i>	88.8%		47-130		03/04/24	03/05/24
<i>2-Fluorobiphenyl</i>	75.9%		34-130		03/04/24	03/05/24
<i>Phenol-d6</i>	68.6%		30-130		03/04/24	03/05/24
<i>2,4,6-Tribromophenol</i>	74.3%		30-130		03/04/24	03/05/24
<i>2-Fluorophenol</i>	72.4%		30-130		03/04/24	03/05/24

Results: Semivolatile organic compounds

Sample: P-2 4'

Lab Number: 4C01011-06 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
1,2,4-Trichlorobenzene	ND		354	ug/kg	03/05/24	03/06/24
1,2-Dichlorobenzene	ND		354	ug/kg	03/05/24	03/06/24
1,3-Dichlorobenzene	ND		354	ug/kg	03/05/24	03/06/24
1,4-Dichlorobenzene	ND		354	ug/kg	03/05/24	03/06/24
Phenol	ND		354	ug/kg	03/05/24	03/06/24
2,4,5-Trichlorophenol	ND		354	ug/kg	03/05/24	03/06/24
2,4,6-Trichlorophenol	ND		354	ug/kg	03/05/24	03/06/24
2,4-Dichlorophenol	ND		354	ug/kg	03/05/24	03/06/24
2,4-Dimethylphenol	ND		898	ug/kg	03/05/24	03/06/24
2,4-Dinitrophenol	ND		898	ug/kg	03/05/24	03/06/24
2,4-Dinitrotoluene	ND		354	ug/kg	03/05/24	03/06/24
2,6-Dinitrotoluene	ND		354	ug/kg	03/05/24	03/06/24
2-Chloronaphthalene	ND		354	ug/kg	03/05/24	03/06/24
2-Chlorophenol	ND		354	ug/kg	03/05/24	03/06/24
2-Methylnaphthalene	ND		354	ug/kg	03/05/24	03/06/24
Nitrobenzene	ND		354	ug/kg	03/05/24	03/06/24
2-Methylphenol	ND		354	ug/kg	03/05/24	03/06/24
2-Nitroaniline	ND		354	ug/kg	03/05/24	03/06/24
2-Nitrophenol	ND		898	ug/kg	03/05/24	03/06/24
3,3'-Dichlorobenzidine	ND		898	ug/kg	03/05/24	03/06/24
3-Nitroaniline	ND		354	ug/kg	03/05/24	03/06/24
4,6-Dinitro-2-methylphenol	ND		898	ug/kg	03/05/24	03/06/24
4-Bromophenyl phenyl ether	ND		354	ug/kg	03/05/24	03/06/24
4-Chloro-3-methylphenol	ND		354	ug/kg	03/05/24	03/06/24
4-Chloroaniline	ND		354	ug/kg	03/05/24	03/06/24
4-Chlorophenyl phenyl ether	ND		354	ug/kg	03/05/24	03/06/24
4-Nitroaniline	ND		354	ug/kg	03/05/24	03/06/24
4-Nitrophenol	ND		898	ug/kg	03/05/24	03/06/24
Acenaphthene	ND		354	ug/kg	03/05/24	03/06/24
Acenaphthylene	ND		354	ug/kg	03/05/24	03/06/24
Aniline	ND		354	ug/kg	03/05/24	03/06/24
Anthracene	ND		354	ug/kg	03/05/24	03/06/24
Benzo(a)anthracene	ND		354	ug/kg	03/05/24	03/06/24
Benzo(a)pyrene	ND		354	ug/kg	03/05/24	03/06/24
Benzo(b)fluoranthene	ND		354	ug/kg	03/05/24	03/06/24
Benzo(g,h,i)perylene	ND		354	ug/kg	03/05/24	03/06/24
Benzo(k)fluoranthene	ND		354	ug/kg	03/05/24	03/06/24
Benzoic acid	ND		2720	ug/kg	03/05/24	03/06/24
Biphenyl	ND		54	ug/kg	03/05/24	03/06/24
Bis(2-chloroethoxy)methane	ND		354	ug/kg	03/05/24	03/06/24
Bis(2-chloroethyl)ether	ND		354	ug/kg	03/05/24	03/06/24
Bis(2-chloroisopropyl)ether	ND		354	ug/kg	03/05/24	03/06/24
Bis(2-ethylhexyl)phthalate	ND		1090	ug/kg	03/05/24	03/06/24
Butyl benzyl phthalate	ND		354	ug/kg	03/05/24	03/06/24
Chrysene	ND		354	ug/kg	03/05/24	03/06/24
Di-n-octyl phthalate	ND		544	ug/kg	03/05/24	03/06/24
Dibenz(a,h)anthracene	ND		354	ug/kg	03/05/24	03/06/24

Results: Semivolatile organic compounds (Continued)

Sample: P-2 4' (Continued)

Lab Number: 4C01011-06 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Dibenzofuran	ND		354	ug/kg	03/05/24	03/06/24
Diethyl phthalate	ND		354	ug/kg	03/05/24	03/06/24
Dimethyl phthalate	ND		898	ug/kg	03/05/24	03/06/24
Di-n-butyl phthalate	ND		544	ug/kg	03/05/24	03/06/24
Fluoranthene	ND		354	ug/kg	03/05/24	03/06/24
Fluorene	ND		354	ug/kg	03/05/24	03/06/24
Hexachlorobenzene	ND		354	ug/kg	03/05/24	03/06/24
Hexachlorobutadiene	ND		354	ug/kg	03/05/24	03/06/24
Hexachlorocyclopentadiene	ND		898	ug/kg	03/05/24	03/06/24
Hexachloroethane	ND		354	ug/kg	03/05/24	03/06/24
Indeno(1,2,3-cd)pyrene	ND		354	ug/kg	03/05/24	03/06/24
Isophorone	ND		354	ug/kg	03/05/24	03/06/24
Naphthalene	ND		354	ug/kg	03/05/24	03/06/24
N-Nitrosodimethylamine	ND		354	ug/kg	03/05/24	03/06/24
N-Nitrosodi-n-propylamine	ND		354	ug/kg	03/05/24	03/06/24
N-Nitrosodiphenylamine	ND		354	ug/kg	03/05/24	03/06/24
Pentachlorophenol	ND		898	ug/kg	03/05/24	03/06/24
Phenanthrene	ND		354	ug/kg	03/05/24	03/06/24
Pyrene	ND		354	ug/kg	03/05/24	03/06/24
m&p-Cresol	ND		707	ug/kg	03/05/24	03/06/24
Pyridine	ND		354	ug/kg	03/05/24	03/06/24
Azobenzene	ND		354	ug/kg	03/05/24	03/06/24
Total Dichlorobenzene	ND		354	ug/kg	03/05/24	03/06/24
<hr/>						
Surrogate(s)	Recovery%		Limits			
<i>Nitrobenzene-d5</i>	60.2%		30-126		03/05/24	03/06/24
<i>p-Terphenyl-d14</i>	120%		47-130		03/05/24	03/06/24
<i>2-Fluorobiphenyl</i>	70.0%		34-130		03/05/24	03/06/24
<i>Phenol-d6</i>	59.4%		30-130		03/05/24	03/06/24
<i>2,4,6-Tribromophenol</i>	79.5%		30-130		03/05/24	03/06/24
<i>2-Fluorophenol</i>	61.0%		30-130		03/05/24	03/06/24

Results: Polychlorinated Biphenyls (PCBs)

Sample: TP-1 18"

Lab Number: 4C01011-01 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Aroclor-1016	ND		74	ug/kg	03/06/24	03/08/24
Aroclor-1221	ND		74	ug/kg	03/06/24	03/08/24
Aroclor-1232	ND		74	ug/kg	03/06/24	03/08/24
Aroclor-1242	ND		74	ug/kg	03/06/24	03/08/24
Aroclor-1248	ND		74	ug/kg	03/06/24	03/08/24
Aroclor-1254	ND		74	ug/kg	03/06/24	03/08/24
Aroclor-1260	ND		74	ug/kg	03/06/24	03/08/24
Aroclor-1262	ND		74	ug/kg	03/06/24	03/08/24
Aroclor-1268	ND		74	ug/kg	03/06/24	03/08/24
PCBs (Total)	ND		74	ug/kg	03/06/24	03/08/24
Surrogate(s)	Recovery%		Limits			
<i>2,4,5,6-Tetrachloro-m-xylene (TCMX)</i>	87.4%		36.2-130		03/06/24	03/08/24
<i>Decachlorobiphenyl (DCBP)</i>	73.8%		43.3-130		03/06/24	03/08/24

Results: Polychlorinated Biphenyls (PCBs)

Sample: P-1 4'

Lab Number: 4C01011-02 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Aroclor-1016	ND		76	ug/kg	03/06/24	03/08/24
Aroclor-1221	ND		76	ug/kg	03/06/24	03/08/24
Aroclor-1232	ND		76	ug/kg	03/06/24	03/08/24
Aroclor-1242	ND		76	ug/kg	03/06/24	03/08/24
Aroclor-1248	ND		76	ug/kg	03/06/24	03/08/24
Aroclor-1254	ND		76	ug/kg	03/06/24	03/08/24
Aroclor-1260	ND		76	ug/kg	03/06/24	03/08/24
Aroclor-1262	ND		76	ug/kg	03/06/24	03/08/24
Aroclor-1268	ND		76	ug/kg	03/06/24	03/08/24
PCBs (Total)	ND		76	ug/kg	03/06/24	03/08/24
Surrogate(s)	Recovery%		Limits			
<i>2,4,5,6-Tetrachloro-m-xylene (TCMX)</i>	71.4%		36.2-130		03/06/24	03/08/24
<i>Decachlorobiphenyl (DCBP)</i>	68.7%		43.3-130		03/06/24	03/08/24

Results: Polychlorinated Biphenyls (PCBs)

Sample: TP-2 18"

Lab Number: 4C01011-03 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Aroclor-1016	ND		123	ug/kg	03/06/24	03/08/24
Aroclor-1221	ND		123	ug/kg	03/06/24	03/08/24
Aroclor-1232	ND		123	ug/kg	03/06/24	03/08/24
Aroclor-1242	ND		123	ug/kg	03/06/24	03/08/24
Aroclor-1248	ND		123	ug/kg	03/06/24	03/08/24
Aroclor-1254	ND		123	ug/kg	03/06/24	03/08/24
Aroclor-1260	ND		123	ug/kg	03/06/24	03/08/24
Aroclor-1262	ND		123	ug/kg	03/06/24	03/08/24
Aroclor-1268	ND		123	ug/kg	03/06/24	03/08/24
PCBs (Total)	ND		123	ug/kg	03/06/24	03/08/24
Surrogate(s)	Recovery%		Limits			
<i>2,4,5,6-Tetrachloro-m-xylene (TCMX)</i>	<i>67.4%</i>		<i>36.2-130</i>		03/06/24	03/08/24
<i>Decachlorobiphenyl (DCBP)</i>	<i>51.0%</i>		<i>43.3-130</i>		03/06/24	03/08/24

Results: Polychlorinated Biphenyls (PCBs)

Sample: TP-3 18"

Lab Number: 4C01011-04 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Aroclor-1016	ND		268	ug/kg	03/06/24	03/08/24
Aroclor-1221	ND		268	ug/kg	03/06/24	03/08/24
Aroclor-1232	ND		268	ug/kg	03/06/24	03/08/24
Aroclor-1242	ND		268	ug/kg	03/06/24	03/08/24
Aroclor-1248	ND		268	ug/kg	03/06/24	03/08/24
Aroclor-1254	ND		268	ug/kg	03/06/24	03/08/24
Aroclor-1260	ND		268	ug/kg	03/06/24	03/08/24
Aroclor-1262	ND		268	ug/kg	03/06/24	03/08/24
Aroclor-1268	ND		268	ug/kg	03/06/24	03/08/24
PCBs (Total)	ND		268	ug/kg	03/06/24	03/08/24
Surrogate(s)	Recovery%		Limits			
<i>2,4,5,6-Tetrachloro-m-xylene (TCMX)</i>	65.8%		36.2-130		03/06/24	03/08/24
<i>Decachlorobiphenyl (DCBP)</i>	47.7%		43.3-130		03/06/24	03/08/24

Results: Polychlorinated Biphenyls (PCBs)

Sample: TP-4"

Lab Number: 4C01011-05 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Aroclor-1016	ND		227	ug/kg	03/06/24	03/08/24
Aroclor-1221	ND		227	ug/kg	03/06/24	03/08/24
Aroclor-1232	ND		227	ug/kg	03/06/24	03/08/24
Aroclor-1242	ND		227	ug/kg	03/06/24	03/08/24
Aroclor-1248	ND		227	ug/kg	03/06/24	03/08/24
Aroclor-1254	ND		227	ug/kg	03/06/24	03/08/24
Aroclor-1260	ND		227	ug/kg	03/06/24	03/08/24
Aroclor-1262	ND		227	ug/kg	03/06/24	03/08/24
Aroclor-1268	ND		227	ug/kg	03/06/24	03/08/24
PCBs (Total)	ND		227	ug/kg	03/06/24	03/08/24
Surrogate(s)	Recovery%		Limits			
<i>2,4,5,6-Tetrachloro-m-xylene (TCMX)</i>	79.5%		36.2-130		03/06/24	03/08/24
<i>Decachlorobiphenyl (DCBP)</i>	58.8%		43.3-130		03/06/24	03/08/24

Results: Polychlorinated Biphenyls (PCBs)

Sample: P-2 4'

Lab Number: 4C01011-06 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Aroclor-1016	ND		87	ug/kg	03/06/24	03/08/24
Aroclor-1221	ND		87	ug/kg	03/06/24	03/08/24
Aroclor-1232	ND		87	ug/kg	03/06/24	03/08/24
Aroclor-1242	ND		87	ug/kg	03/06/24	03/08/24
Aroclor-1248	ND		87	ug/kg	03/06/24	03/08/24
Aroclor-1254	ND		87	ug/kg	03/06/24	03/08/24
Aroclor-1260	ND		87	ug/kg	03/06/24	03/08/24
Aroclor-1262	ND		87	ug/kg	03/06/24	03/08/24
Aroclor-1268	ND		87	ug/kg	03/06/24	03/08/24
PCBs (Total)	ND		87	ug/kg	03/06/24	03/08/24
Surrogate(s)	Recovery%		Limits			
<i>2,4,5,6-Tetrachloro-m-xylene (TCMX)</i>	65.2%		36.2-130		03/06/24	03/08/24
<i>Decachlorobiphenyl (DCBP)</i>	62.0%		43.3-130		03/06/24	03/08/24

**Extractable Petroleum Hydrocarbons
Sample: TP-1 18" (4C01011-01)**

SAMPLE INFORMATION

Matrix	Soil
Containers	Satisfactory
Aqueous Preservatives	NA
Temperature	Received on Ice Received at: 4+/-2 C°
Extraction Method	EPA Method 3546

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 4-1.1		Client ID		TP-1 18"		
Method for Target Analytes: MADEP EPH 4-1.1		Lab ID		4C01011-01		
EPH Surrogate Standards: Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected		02/29/24		
		Date Received		03/01/24		
		Date Thawed		NA		
		Date Extracted		03/01/24		
EPH Fractionation Surrogates: (1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene		Percent Moisture		12.30		
RANGE/TARGET ANALYTE		Dilution	RL	Units	Result	Analyzed
Unadjusted C11-C22 Aromatic Hydrocarbons [1]		1X	7.55	mg/kg	<7.55	03/05/24 18:14
Diesel PAH Analytes	Naphthalene	1X	0.37	mg/kg	<0.37	03/05/24 18:14
	2-Methylnaphthalene	1X	0.37	mg/kg	<0.37	03/05/24 18:14
	Phenanthrene	1X	0.37	mg/kg	<0.37	03/05/24 18:14
	Acenaphthene	1X	0.37	mg/kg	<0.37	03/05/24 18:14
Other Target PAH Analytes	Acenaphthylene	1X	0.37	mg/kg	<0.37	03/05/24 18:14
	Fluorene	1X	0.37	mg/kg	<0.37	03/05/24 18:14
	Anthracene	1X	0.37	mg/kg	<0.37	03/05/24 18:14
	Fluoranthene	1X	0.37	mg/kg	<0.37	03/05/24 18:14
	Pyrene	1X	0.37	mg/kg	<0.37	03/05/24 18:14
	Benzo(a)anthracene	1X	0.37	mg/kg	<0.37	03/05/24 18:14
	Chrysene	1X	0.37	mg/kg	<0.37	03/05/24 18:14
	Benzo(b)fluoranthene	1X	0.37	mg/kg	<0.37	03/05/24 18:14
	Benzo(k)fluoranthene	1X	0.37	mg/kg	<0.37	03/05/24 18:14
	Benzo(a)pyrene	1X	0.37	mg/kg	<0.37	03/05/24 18:14
	Indeno(1,2,3-cd)pyrene	1X	0.37	mg/kg	<0.37	03/05/24 18:14
	Dibenz(a,h)anthracene	1X	0.37	mg/kg	<0.37	03/05/24 18:14
Benzo(g,h,i)perylene	1X	0.37	mg/kg	<0.37	03/05/24 18:14	
C9-C18 Aliphatic Hydrocarbons [1]		1X	15.1	mg/kg	<15.1	03/05/24 17:23
C19-C36 Aliphatic Hydrocarbons [1]		1X	15.1	mg/kg	<15.1	03/05/24 17:23
C11-C22 Aromatic Hydrocarbons [1,2]		1X	7.55	mg/kg	<7.55	03/05/24 18:14
Chlorooctadecane (Sample Surrogate)				%	54.3	03/05/24 17:23
o-Terphenyl (Sample Surrogate)				%	68.8	03/05/24 18:14
2-Fluorobiphenyl (Fractionation Surrogate)				%	110	03/05/24 18:14
2-Bromonaphthalene (Fractionation Surrogate)				%	113	03/05/24 18:14
Surrogate Acceptance Range [3]				%	40 - 140	

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.

[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.

[3] See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

Extractable Petroleum Hydrocarbons
Sample: P-1 4' (4C01011-02)

SAMPLE INFORMATION

Matrix	Soil
Containers	Satisfactory
Aqueous Preservatives	NA
Temperature	Received on Ice Received at: 4+/-2 C°
Extraction Method	EPA Method 3546

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 4-1.1		Client ID		P-1 4'		
Method for Target Analytes: MADEP EPH 4-1.1		Lab ID		4C01011-02		
EPH Surrogate Standards: Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected		02/29/24		
		Date Received		03/01/24		
		Date Thawed		NA		
		Date Extracted		03/01/24		
EPH Fractionation Surrogates: (1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene		Percent Moisture		14.50		
RANGE/TARGET ANALYTE		Dilution	RL	Units	Result	Analyzed
Unadjusted C11-C22 Aromatic Hydrocarbons [1]		1X	7.75	mg/kg	<7.75	03/05/24 18:40
Diesel PAH Analytes	Naphthalene	1X	0.38	mg/kg	<0.38	03/05/24 18:40
	2-Methylnaphthalene	1X	0.38	mg/kg	<0.38	03/05/24 18:40
	Phenanthrene	1X	0.38	mg/kg	<0.38	03/05/24 18:40
	Acenaphthene	1X	0.38	mg/kg	<0.38	03/05/24 18:40
Other Target PAH Analytes	Acenaphthylene	1X	0.38	mg/kg	<0.38	03/05/24 18:40
	Fluorene	1X	0.38	mg/kg	<0.38	03/05/24 18:40
	Anthracene	1X	0.38	mg/kg	<0.38	03/05/24 18:40
	Fluoranthene	1X	0.38	mg/kg	<0.38	03/05/24 18:40
	Pyrene	1X	0.38	mg/kg	<0.38	03/05/24 18:40
	Benzo(a)anthracene	1X	0.38	mg/kg	<0.38	03/05/24 18:40
	Chrysene	1X	0.38	mg/kg	<0.38	03/05/24 18:40
	Benzo(b)fluoranthene	1X	0.38	mg/kg	<0.38	03/05/24 18:40
	Benzo(k)fluoranthene	1X	0.38	mg/kg	<0.38	03/05/24 18:40
	Benzo(a)pyrene	1X	0.38	mg/kg	<0.38	03/05/24 18:40
	Indeno(1,2,3-cd)pyrene	1X	0.38	mg/kg	<0.38	03/05/24 18:40
	Dibenz(a,h)anthracene	1X	0.38	mg/kg	<0.38	03/05/24 18:40
Benzo(g,h,i)perylene	1X	0.38	mg/kg	<0.38	03/05/24 18:40	
C9-C18 Aliphatic Hydrocarbons [1]		1X	15.5	mg/kg	<15.5	03/05/24 17:47
C19-C36 Aliphatic Hydrocarbons [1]		1X	15.5	mg/kg	<15.5	03/05/24 17:47
C11-C22 Aromatic Hydrocarbons [1,2]		1X	7.75	mg/kg	<7.75	03/05/24 18:40
Chlorooctadecane (Sample Surrogate)				%	53.6	03/05/24 17:47
o-Terphenyl (Sample Surrogate)				%	70.0	03/05/24 18:40
2-Fluorobiphenyl (Fractionation Surrogate)				%	105	03/05/24 18:40
2-Bromonaphthalene (Fractionation Surrogate)				%	108	03/05/24 18:40
Surrogate Acceptance Range [3]				%	40 - 140	

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.

[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.

[3] See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

**Extractable Petroleum Hydrocarbons
Sample: TP-2 18" (4C01011-03)**

SAMPLE INFORMATION

Matrix	Soil
Containers	Satisfactory
Aqueous Preservatives	NA
Temperature	Received on Ice Received at: 4+/-2 C°
Extraction Method	EPA Method 3546

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 4-1.1		Client ID		TP-2 18"		
Method for Target Analytes: MADEP EPH 4-1.1		Lab ID		4C01011-03		
EPH Surrogate Standards: Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected		02/29/24		
		Date Received		03/01/24		
		Date Thawed		NA		
		Date Extracted		03/01/24		
EPH Fractionation Surrogates: (1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene		Percent Moisture		47.90		
RANGE/TARGET ANALYTE		Dilution	RL	Units	Result	Analyzed
Unadjusted C11-C22 Aromatic Hydrocarbons [1]		1X	12.7	mg/kg	25.7	03/05/24 19:07
Diesel PAH Analytes	Naphthalene	1X	0.63	mg/kg	<0.63	03/06/24 17:13
	2-Methylnaphthalene	1X	0.63	mg/kg	<0.63	03/06/24 17:13
	Phenanthrene	1X	0.63	mg/kg	<0.63	03/06/24 17:13
	Acenaphthene	1X	0.63	mg/kg	<0.63	03/06/24 17:13
Other Target PAH Analytes	Acenaphthylene	1X	0.63	mg/kg	<0.63	03/06/24 17:13
	Fluorene	1X	0.63	mg/kg	<0.63	03/06/24 17:13
	Anthracene	1X	0.63	mg/kg	<0.63	03/06/24 17:13
	Fluoranthene	1X	0.63	mg/kg	<0.63	03/06/24 17:13
	Pyrene	1X	0.63	mg/kg	<0.63	03/06/24 17:13
	Benzo(a)anthracene	1X	0.63	mg/kg	<0.63	03/06/24 17:13
	Chrysene	1X	0.63	mg/kg	<0.63	03/06/24 17:13
	Benzo(b)fluoranthene	1X	0.63	mg/kg	<0.63	03/06/24 17:13
	Benzo(k)fluoranthene	1X	0.63	mg/kg	<0.63	03/06/24 17:13
	Benzo(a)pyrene	1X	0.63	mg/kg	<0.63	03/06/24 17:13
	Indeno(1,2,3-cd)pyrene	1X	0.63	mg/kg	<0.63	03/06/24 17:13
	Dibenz(a,h)anthracene	1X	0.63	mg/kg	<0.63	03/06/24 17:13
Benzo(g,h,i)perylene	1X	0.63	mg/kg	<0.63	03/06/24 17:13	
C9-C18 Aliphatic Hydrocarbons [1]		1X	25.3	mg/kg	<25.3	03/05/24 18:15
C19-C36 Aliphatic Hydrocarbons [1]		1X	25.3	mg/kg	<25.3	03/05/24 18:15
C11-C22 Aromatic Hydrocarbons [1,2]		1X	12.7	mg/kg	25.7	03/05/24 19:07
Chlorooctadecane (Sample Surrogate)				%	40.8	03/05/24 18:15
o-Terphenyl (Sample Surrogate)				%	53.7	03/05/24 19:07
2-Fluorobiphenyl (Fractionation Surrogate)				%	111	03/05/24 19:07
2-Bromonaphthalene (Fractionation Surrogate)				%	114	03/05/24 19:07
Surrogate Acceptance Range [3]				%	40 - 140	

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.

[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.

[3] See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

**Extractable Petroleum Hydrocarbons
Sample: TP-3 18" (4C01011-04)**

SAMPLE INFORMATION

Matrix	Soil
Containers	Satisfactory
Aqueous Preservatives	NA
Temperature	Received on Ice Received at: 4+/-2 C°
Extraction Method	EPA Method 3546

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 4-1.1		Client ID		TP-3 18"		
Method for Target Analytes: MADEP EPH 4-1.1		Lab ID		4C01011-04		
EPH Surrogate Standards: Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected		02/29/24		
		Date Received		03/01/24		
		Date Thawed		NA		
		Date Extracted		03/01/24		
EPH Fractionation Surrogates: (1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene		Percent Moisture		76.50		
RANGE/TARGET ANALYTE		Dilution	RL	Units	Result	Analyzed
Unadjusted C11-C22 Aromatic Hydrocarbons [1]		1X	28.2	mg/kg	88.5	03/05/24 19:33
Diesel PAH Analytes	Naphthalene	1X	1.39	mg/kg	<1.39	03/05/24 19:33
	2-Methylnaphthalene	1X	1.39	mg/kg	<1.39	03/05/24 19:33
	Phenanthrene	1X	1.39	mg/kg	<1.39	03/05/24 19:33
	Acenaphthene	1X	1.39	mg/kg	<1.39	03/05/24 19:33
Other Target PAH Analytes	Acenaphthylene	1X	1.39	mg/kg	<1.39	03/05/24 19:33
	Fluorene	1X	1.39	mg/kg	<1.39	03/05/24 19:33
	Anthracene	1X	1.39	mg/kg	<1.39	03/05/24 19:33
	Fluoranthene	1X	1.39	mg/kg	<1.39	03/05/24 19:33
	Pyrene	1X	1.39	mg/kg	<1.39	03/05/24 19:33
	Benzo(a)anthracene	1X	1.39	mg/kg	<1.39	03/05/24 19:33
	Chrysene	1X	1.39	mg/kg	<1.39	03/05/24 19:33
	Benzo(b)fluoranthene	1X	1.39	mg/kg	<1.39	03/05/24 19:33
	Benzo(k)fluoranthene	1X	1.39	mg/kg	<1.39	03/05/24 19:33
	Benzo(a)pyrene	1X	1.39	mg/kg	<1.39	03/05/24 19:33
	Indeno(1,2,3-cd)pyrene	1X	1.39	mg/kg	<1.39	03/05/24 19:33
	Dibenz(a,h)anthracene	1X	1.39	mg/kg	<1.39	03/05/24 19:33
Benzo(g,h,i)perylene	1X	1.39	mg/kg	<1.39	03/05/24 19:33	
C9-C18 Aliphatic Hydrocarbons [1]		1X	56.2	mg/kg	<56.2	03/05/24 18:35
C19-C36 Aliphatic Hydrocarbons [1]		1X	56.2	mg/kg	179	03/05/24 18:35
C11-C22 Aromatic Hydrocarbons [1,2]		1X	28.2	mg/kg	88.5	03/05/24 19:33
Chlorooctadecane (Sample Surrogate)				%	72.5	03/05/24 18:35
o-Terphenyl (Sample Surrogate)				%	70.4	03/05/24 19:33
2-Fluorobiphenyl (Fractionation Surrogate)				%	75.4	03/05/24 19:33
2-Bromonaphthalene (Fractionation Surrogate)				%	78.5	03/05/24 19:33
Surrogate Acceptance Range [3]				%	40 - 140	

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.

[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.

[3] See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

Extractable Petroleum Hydrocarbons
Sample: TP-4" (4C01011-05)

SAMPLE INFORMATION

Matrix	Soil
Containers	Satisfactory
Aqueous Preservatives	NA
Temperature	Received on Ice Received at: 4+/-2 C°
Extraction Method	EPA Method 3546

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 4-1.1	Client ID	TP-4"				
Method for Target Analytes: MADEP EPH 4-1.1	Lab ID	4C01011-05				
EPH Surrogate Standards: Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl	Date Collected	02/29/24				
	Date Received	03/01/24				
	Date Thawed	NA				
	Date Extracted	03/01/24				
EPH Fractionation Surrogates: (1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene	Percent Moisture	71.60				
RANGE/TARGET ANALYTE	Dilution	RL	Units	Result	Analyzed	
Unadjusted C11-C22 Aromatic Hydrocarbons [1]	1X	23.4	mg/kg	54.4	03/05/24 20:00	
Diesel PAH Analytes	Naphthalene	1X	1.16	mg/kg	<1.16	03/05/24 20:00
	2-Methylnaphthalene	1X	1.16	mg/kg	<1.16	03/05/24 20:00
	Phenanthrene	1X	1.16	mg/kg	<1.16	03/05/24 20:00
	Acenaphthene	1X	1.16	mg/kg	<1.16	03/05/24 20:00
Other Target PAH Analytes	Acenaphthylene	1X	1.16	mg/kg	<1.16	03/05/24 20:00
	Fluorene	1X	1.16	mg/kg	<1.16	03/05/24 20:00
	Anthracene	1X	1.16	mg/kg	<1.16	03/05/24 20:00
	Fluoranthene	1X	1.16	mg/kg	<1.16	03/05/24 20:00
	Pyrene	1X	1.16	mg/kg	<1.16	03/05/24 20:00
	Benzo(a)anthracene	1X	1.16	mg/kg	<1.16	03/05/24 20:00
	Chrysene	1X	1.16	mg/kg	<1.16	03/05/24 20:00
	Benzo(b)fluoranthene	1X	1.16	mg/kg	<1.16	03/05/24 20:00
	Benzo(k)fluoranthene	1X	1.16	mg/kg	<1.16	03/05/24 20:00
	Benzo(a)pyrene	1X	1.16	mg/kg	<1.16	03/05/24 20:00
	Indeno(1,2,3-cd)pyrene	1X	1.16	mg/kg	<1.16	03/05/24 20:00
	Dibenz(a,h)anthracene	1X	1.16	mg/kg	<1.16	03/05/24 20:00
Benzo(g,h,i)perylene	1X	1.16	mg/kg	<1.16	03/05/24 20:00	
C9-C18 Aliphatic Hydrocarbons [1]	1X	46.6	mg/kg	<46.6	03/05/24 18:59	
C19-C36 Aliphatic Hydrocarbons [1]	1X	46.6	mg/kg	<46.6	03/05/24 18:59	
C11-C22 Aromatic Hydrocarbons [1,2]	1X	23.4	mg/kg	54.4	03/05/24 20:00	
Chlorooctadecane (Sample Surrogate)			%	82.5	03/05/24 18:59	
o-Terphenyl (Sample Surrogate)			%	88.0	03/05/24 20:00	
2-Fluorobiphenyl (Fractionation Surrogate)			%	77.8	03/05/24 20:00	
2-Bromonaphthalene (Fractionation Surrogate)			%	81.5	03/05/24 20:00	
Surrogate Acceptance Range [3]			%	40 - 140		

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.

[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.

[3] See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

Extractable Petroleum Hydrocarbons
Sample: P-2 4' (4C01011-06)

SAMPLE INFORMATION

Matrix	Soil
Containers	Satisfactory
Aqueous Preservatives	NA
Temperature	Received on Ice Received at: 4+/-2 C°
Extraction Method	EPA Method 3546

EPH ANALYTICAL RESULTS

Method for Ranges: MADEP EPH 4-1.1		Client ID		P-2 4'		
Method for Target Analytes: MADEP EPH 4-1.1		Lab ID		4C01011-06		
EPH Surrogate Standards: Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected		02/29/24		
		Date Received		03/01/24		
		Date Thawed		NA		
		Date Extracted		03/01/24		
EPH Fractionation Surrogates: (1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene		Percent Moisture		27.00		
RANGE/TARGET ANALYTE		Dilution	RL	Units	Result	Analyzed
Unadjusted C11-C22 Aromatic Hydrocarbons [1]		1X	9.07	mg/kg	<9.07	03/08/24 10:57
Diesel PAH Analytes	Naphthalene	1X	0.45	mg/kg	<0.45	03/08/24 10:57
	2-Methylnaphthalene	1X	0.45	mg/kg	<0.45	03/08/24 10:57
	Phenanthrene	1X	0.45	mg/kg	<0.45	03/08/24 10:57
	Acenaphthene	1X	0.45	mg/kg	<0.45	03/08/24 10:57
Other Target PAH Analytes	Acenaphthylene	1X	0.45	mg/kg	<0.45	03/08/24 10:57
	Fluorene	1X	0.45	mg/kg	<0.45	03/08/24 10:57
	Anthracene	1X	0.45	mg/kg	<0.45	03/08/24 10:57
	Fluoranthene	1X	0.45	mg/kg	<0.45	03/08/24 10:57
	Pyrene	1X	0.45	mg/kg	<0.45	03/08/24 10:57
	Benzo(a)anthracene	1X	0.45	mg/kg	<0.45	03/08/24 10:57
	Chrysene	1X	0.45	mg/kg	<0.45	03/08/24 10:57
	Benzo(b)fluoranthene	1X	0.45	mg/kg	<0.45	03/08/24 10:57
	Benzo(k)fluoranthene	1X	0.45	mg/kg	<0.45	03/08/24 10:57
	Benzo(a)pyrene	1X	0.45	mg/kg	<0.45	03/08/24 10:57
	Indeno(1,2,3-cd)pyrene	1X	0.45	mg/kg	<0.45	03/08/24 10:57
	Dibenz(a,h)anthracene	1X	0.45	mg/kg	<0.45	03/08/24 10:57
Benzo(g,h,i)perylene	1X	0.45	mg/kg	<0.45	03/08/24 10:57	
C9-C18 Aliphatic Hydrocarbons [1]		1X	18.1	mg/kg	<18.1	03/08/24 10:41
C19-C36 Aliphatic Hydrocarbons [1]		1X	18.1	mg/kg	<18.1	03/08/24 10:41
C11-C22 Aromatic Hydrocarbons [1,2]		1X	9.07	mg/kg	<9.07	03/08/24 10:57
Chlorooctadecane (Sample Surrogate)				%	45.1	03/08/24 10:41
o-Terphenyl (Sample Surrogate)				%	49.7	03/08/24 10:57
2-Fluorobiphenyl (Fractionation Surrogate)				%	113	03/08/24 10:57
2-Bromonaphthalene (Fractionation Surrogate)				%	118	03/08/24 10:57
Surrogate Acceptance Range [3]				%	40 - 140	

[1] Hydrocarbon range data excludes area counts of any surrogate(s) and/or internal standards eluting in that range.

[2] C11-C22 Aromatic Hydrocarbons excludes the concentration of Target PAH Analytes.

[3] See the case narrative in cases where a dash (-) is entered in the surrogate recovery block.

Quality Control

General Chemistry

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0127 - pH										
LCS (B4C0127-BS1)										
pH	7.1			SU	7.00		101	0-200		
LCS (B4C0127-BS2)										
pH	7.1			SU	7.00		101	0-200		
Duplicate (B4C0127-DUP1)										
pH	5.4		Source: 4C01011-01	SU		5.4			0.743	200

Quality Control
(Continued)

Total Metals

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0079 - Metals Digestion Soils										
Blank (B4C0079-BLK1)					Prepared & Analyzed: 03/04/24					
Beryllium	ND		0.33	mg/kg						
Barium	ND		0.33	mg/kg						
Silver	ND		1.00	mg/kg						
Arsenic	ND		1.00	mg/kg						
Cadmium	ND		0.50	mg/kg						
Chromium	ND		0.50	mg/kg						
Nickel	ND		0.50	mg/kg						
Selenium	ND		1.00	mg/kg						
Lead	ND		0.50	mg/kg						
Antimony	ND		0.66	mg/kg						
Vanadium	ND		0.33	mg/kg						
Zinc	ND		2.0	mg/kg						
Thallium	ND		0.33	mg/kg						
LCS (B4C0079-BS1)					Prepared & Analyzed: 03/04/24					
Lead	105		0.50	mg/kg	100		105	85-115		
Barium	108		0.33	mg/kg	100		108	85-115		
Silver	42.7		1.00	mg/kg	40.0		107	85-115		
Beryllium	23.0		0.33	mg/kg	20.0		115	85-115		
Cadmium	109		0.50	mg/kg	100		109	85-115		
Chromium	105		0.50	mg/kg	100		105	85-115		
Arsenic	22.2		1.00	mg/kg	20.0		111	85-115		
Nickel	106		0.50	mg/kg	100		106	85-112		
Antimony	114		0.66	mg/kg	100		114	85-115		
Selenium	21.6		1.00	mg/kg	20.0		108	85-115		
Zinc	113		2.0	mg/kg	100		113	85-115		
Vanadium	110		0.33	mg/kg	100		110	85-115		
Thallium	104		0.33	mg/kg	100		104	85-115		

Quality Control
(Continued)

Total Metals (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0083 - Metals Cold-Vapor Mercury										
Blank (B4C0083-BLK1)										
Mercury	ND		0.100	mg/kg						
					Prepared: 03/04/24	Analyzed: 03/05/24				
Blank (B4C0083-BLK2)										
Mercury	ND		0.100	mg/kg						
					Prepared: 03/04/24	Analyzed: 03/05/24				
LCS (B4C0083-BS1)										
Mercury	0.519		0.100	mg/kg	0.500		104	93-114		
					Prepared: 03/04/24	Analyzed: 03/05/24				
LCS (B4C0083-BS2)										
Mercury	0.519		0.100	mg/kg	0.500		104	93-114		
					Prepared: 03/04/24	Analyzed: 03/05/24				
LCS Dup (B4C0083-BSD1)										
Mercury	0.511		0.100	mg/kg	0.500		102	93-114	1.58	200
					Prepared: 03/04/24	Analyzed: 03/05/24				
LCS Dup (B4C0083-BSD2)										
Mercury	0.511		0.100	mg/kg	0.500		102	93-114	1.58	200
					Prepared: 03/04/24	Analyzed: 03/05/24				
Matrix Spike (B4C0083-MS1)										
Mercury	0.895		0.128	mg/kg dry	0.639	0.191	110	80-120		
			Source: 4C01004-01		Prepared: 03/04/24		Analyzed: 03/05/24			
Matrix Spike (B4C0083-MS2)										
Mercury	2.60		0.408	mg/kg dry	2.04	0.293	113	80-120		
			Source: 4C01033-02		Prepared: 03/04/24		Analyzed: 03/05/24			
Matrix Spike Dup (B4C0083-MSD1)										
Mercury	0.930		0.126	mg/kg dry	0.631	0.191	117	80-120	3.82	20
			Source: 4C01004-01		Prepared: 03/04/24		Analyzed: 03/05/24			
Matrix Spike Dup (B4C0083-MSD2)										
Mercury	2.71		0.407	mg/kg dry	2.04	0.293	119	80-120	4.31	20
			Source: 4C01033-02		Prepared: 03/04/24		Analyzed: 03/05/24			

Quality Control
(Continued)

Volatile Organic Compounds 8260C (5035-LL)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0189 - EPA 5035										
Blank (B4C0189-BLK1)					Prepared & Analyzed: 03/05/24					
Acetone	ND		5	ug/kg						
Benzene	ND		5	ug/kg						
Bromobenzene	ND		5	ug/kg						
Bromochloromethane	ND		5	ug/kg						
Bromodichloromethane	ND		5	ug/kg						
Bromoform	ND		5	ug/kg						
Bromomethane	ND		5	ug/kg						
2-Butanone	ND		5	ug/kg						
tert-Butyl alcohol	ND		5	ug/kg						
sec-Butylbenzene	ND		5	ug/kg						
n-Butylbenzene	ND		5	ug/kg						
tert-Butylbenzene	ND		5	ug/kg						
Methyl t-butyl ether (MTBE)	ND		5	ug/kg						
Carbon Disulfide	ND		5	ug/kg						
Carbon Tetrachloride	ND		5	ug/kg						
Chlorobenzene	ND		5	ug/kg						
Chloroethane	ND		5	ug/kg						
Chloroform	ND		5	ug/kg						
Chloromethane	ND		5	ug/kg						
4-Chlorotoluene	ND		5	ug/kg						
2-Chlorotoluene	ND		5	ug/kg						
1,2-Dibromo-3-chloropropane (DBCP)	ND		5	ug/kg						
Dibromochloromethane	ND		5	ug/kg						
1,2-Dibromoethane (EDB)	ND		5	ug/kg						
Dibromomethane	ND		5	ug/kg						
1,2-Dichlorobenzene	ND		5	ug/kg						
1,3-Dichlorobenzene	ND		5	ug/kg						
1,4-Dichlorobenzene	ND		5	ug/kg						
1,1-Dichloroethane	ND		5	ug/kg						
1,2-Dichloroethane	ND		5	ug/kg						
trans-1,2-Dichloroethene	ND		5	ug/kg						
1,2 Dichloroethene, Total	ND		5	ug/kg						
cis-1,2-Dichloroethene	ND		5	ug/kg						
1,1-Dichloroethene	ND		5	ug/kg						
1,2-Dichloropropane	ND		5	ug/kg						
2,2-Dichloropropane	ND		5	ug/kg						
cis-1,3-Dichloropropene	ND		5	ug/kg						
trans-1,3-Dichloropropene	ND		5	ug/kg						
1,1-Dichloropropene	ND		5	ug/kg						
1,3-Dichloropropene (cis + trans)	ND		5	ug/kg						
Diethyl ether	ND		5	ug/kg						
1,4-Dioxane	ND		100	ug/kg						
Ethylbenzene	ND		5	ug/kg						
Hexachlorobutadiene	ND		5	ug/kg						
2-Hexanone	ND		5	ug/kg						
Isopropylbenzene	ND		5	ug/kg						
p-Isopropyltoluene	ND		5	ug/kg						
Methylene Chloride	ND		5	ug/kg						
4-Methyl-2-pentanone	ND		5	ug/kg						
Naphthalene	ND		5	ug/kg						
n-Propylbenzene	ND		5	ug/kg						
Styrene	ND		5	ug/kg						
1,1,1,2-Tetrachloroethane	ND		5	ug/kg						
Tetrachloroethene	ND		5	ug/kg						
Tetrahydrofuran	ND		5	ug/kg						
Toluene	ND		5	ug/kg						
1,2,4-Trichlorobenzene	ND		5	ug/kg						

Quality Control
(Continued)

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

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0189 - EPA 5035 (Continued)										
Blank (B4C0189-BLK1)					Prepared & Analyzed: 03/05/24					
1,2,3-Trichlorobenzene	ND		5	ug/kg						
1,1,2-Trichloroethane	ND		5	ug/kg						
1,1,1-Trichloroethane	ND		5	ug/kg						
Trichloroethene	ND		5	ug/kg						
1,2,3-Trichloropropane	ND		5	ug/kg						
1,3,5-Trimethylbenzene	ND		5	ug/kg						
1,2,4-Trimethylbenzene	ND		5	ug/kg						
Vinyl Chloride	ND		5	ug/kg						
o-Xylene	ND		5	ug/kg						
m&p-Xylene	ND		10	ug/kg						
Total xylenes	ND		5	ug/kg						
1,1,2,2-Tetrachloroethane	ND		5	ug/kg						
tert-Amyl methyl ether	ND		5	ug/kg						
1,3-Dichloropropane	ND		5	ug/kg						
Ethyl tert-butyl ether	ND		5	ug/kg						
Diisopropyl ether	ND		5	ug/kg						
Trichlorofluoromethane	ND		5	ug/kg						
Dichlorodifluoromethane	ND		5	ug/kg						
<hr/>										
<i>Surrogate: 4-Bromofluorobenzene</i>			<i>50.8</i>	ug/kg	<i>50.0</i>		<i>102</i>	<i>70-130</i>		
<i>Surrogate: 1,2-Dichloroethane-d4</i>			<i>49.9</i>	ug/kg	<i>50.0</i>		<i>99.8</i>	<i>70-130</i>		
<i>Surrogate: Toluene-d8</i>			<i>48.4</i>	ug/kg	<i>50.0</i>		<i>96.8</i>	<i>70-130</i>		
<hr/>										
LCS (B4C0189-BS1)					Prepared & Analyzed: 03/05/24					
Acetone	49		5	ug/kg	50.0		97.2	50-150		
Benzene	52		5	ug/kg	50.0		104	70-130		
Bromobenzene	54		5	ug/kg	50.0		108	70-130		
Bromochloromethane	51		5	ug/kg	50.0		103	70-130		
Bromodichloromethane	54		5	ug/kg	50.0		107	70-130		
Bromoform	49		5	ug/kg	50.0		98.7	70-130		
Bromomethane	26		5	ug/kg	50.0		52.4	50-150		
2-Butanone	47		5	ug/kg	50.0		93.0	50-150		
tert-Butyl alcohol	53		5	ug/kg	50.0		105	70-130		
sec-Butylbenzene	56		5	ug/kg	50.0		112	70-130		
n-Butylbenzene	60		5	ug/kg	50.0		119	70-130		
tert-Butylbenzene	56		5	ug/kg	50.0		113	70-130		
Methyl t-butyl ether (MTBE)	49		5	ug/kg	50.0		97.2	70-130		
Carbon Disulfide	46		5	ug/kg	50.0		92.8	50-150		
Carbon Tetrachloride	54		5	ug/kg	50.0		108	70-130		
Chlorobenzene	53		5	ug/kg	50.0		105	70-130		
Chloroethane	38		5	ug/kg	50.0		76.5	50-150		
Chloroform	51		5	ug/kg	50.0		102	70-130		
Chloromethane	42		5	ug/kg	50.0		84.9	50-150		
4-Chlorotoluene	54		5	ug/kg	50.0		108	70-130		
2-Chlorotoluene	50		5	ug/kg	50.0		101	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	47		5	ug/kg	50.0		93.9	70-130		
Dibromochloromethane	49		5	ug/kg	50.0		97.3	70-130		
1,2-Dibromoethane (EDB)	47		5	ug/kg	50.0		93.8	70-130		
Dibromomethane	51		5	ug/kg	50.0		103	60-140		
1,2-Dichlorobenzene	51		5	ug/kg	50.0		102	70-130		
1,3-Dichlorobenzene	55		5	ug/kg	50.0		109	70-130		
1,4-Dichlorobenzene	50		5	ug/kg	50.0		99.1	70-130		
1,1-Dichloroethane	50		5	ug/kg	50.0		99.0	70-130		
1,2-Dichloroethane	55		5	ug/kg	50.0		109	70-130		
trans-1,2-Dichloroethene	50		5	ug/kg	50.0		99.8	70-130		
cis-1,2-Dichloroethene	52		5	ug/kg	50.0		104	70-130		
1,1-Dichloroethene	46		5	ug/kg	50.0		92.6	70-130		
1,2-Dichloropropane	55		5	ug/kg	50.0		109	70-130		

Quality Control
(Continued)

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

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0189 - EPA 5035 (Continued)										
LCS (B4C0189-BS1)					Prepared & Analyzed: 03/05/24					
2,2-Dichloropropane	55		5	ug/kg	50.0		109	70-130		
cis-1,3-Dichloropropene	51		5	ug/kg	50.0		103	70-130		
trans-1,3-Dichloropropene	50		5	ug/kg	50.0		99.1	70-130		
1,1-Dichloropropene	47		5	ug/kg	50.0		93.7	70-130		
Diethyl ether	46		5	ug/kg	50.0		92.2	60-140		
1,4-Dioxane	238		100	ug/kg	250		95.3	0-200		
Ethylbenzene	57		5	ug/kg	50.0		113	70-130		
Hexachlorobutadiene	59		5	ug/kg	50.0		118	70-130		
2-Hexanone	44		5	ug/kg	50.0		87.9	50-150		
Isopropylbenzene	55		5	ug/kg	50.0		110	70-130		
p-Isopropyltoluene	58		5	ug/kg	50.0		115	70-130		
Methylene Chloride	56		5	ug/kg	50.0		111	60-140		
4-Methyl-2-pentanone	45		5	ug/kg	50.0		90.3	50-150		
Naphthalene	42		5	ug/kg	50.0		83.1	70-130		
n-Propylbenzene	57		5	ug/kg	50.0		115	70-130		
Styrene	56		5	ug/kg	50.0		112	70-130		
1,1,1,2-Tetrachloroethane	56		5	ug/kg	50.0		113	70-130		
Tetrachloroethene	52		5	ug/kg	50.0		104	70-130		
Tetrahydrofuran	46		5	ug/kg	50.0		91.9	50-150		
Toluene	51		5	ug/kg	50.0		102	70-130		
1,2,4-Trichlorobenzene	47		5	ug/kg	50.0		94.4	70-130		
1,2,3-Trichlorobenzene	41		5	ug/kg	50.0		81.4	70-130		
1,1,2-Trichloroethane	50		5	ug/kg	50.0		99.8	70-130		
1,1,1-Trichloroethane	52		5	ug/kg	50.0		104	70-130		
Trichloroethene	51		5	ug/kg	50.0		102	70-130		
1,2,3-Trichloropropane	51		5	ug/kg	50.0		102	70-130		
1,3,5-Trimethylbenzene	56		5	ug/kg	50.0		113	70-130		
1,2,4-Trimethylbenzene	60		5	ug/kg	50.0		120	70-130		
Vinyl Chloride	38		5	ug/kg	50.0		76.1	50-150		
o-Xylene	58		5	ug/kg	50.0		116	70-130		
m&p-Xylene	113		10	ug/kg	100		113	70-130		
1,1,2,2-Tetrachloroethane	51		5	ug/kg	50.0		102	70-130		
tert-Amyl methyl ether	48		5	ug/kg	50.0		95.3	70-130		
1,3-Dichloropropane	51		5	ug/kg	50.0		103	70-130		
Ethyl tert-butyl ether	47		5	ug/kg	50.0		94.2	70-130		
Trichlorofluoromethane	45		5	ug/kg	50.0		90.0	50-150		
Dichlorodifluoromethane	49		5	ug/kg	50.0		97.2	50-150		
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Surrogate: 4-Bromofluorobenzene			53.9	ug/kg	50.0		108	70-130		
Surrogate: 1,2-Dichloroethane-d4			50.6	ug/kg	50.0		101	70-130		
Surrogate: Toluene-d8			49.7	ug/kg	50.0		99.4	70-130		

Quality Control
(Continued)

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

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0189 - EPA 5035 (Continued)					Prepared & Analyzed: 03/05/24					
LCS Dup (B4C0189-BSD1)										
Acetone	48		5	ug/kg	50.0		95.8	50-150	1.41	30
Benzene	52		5	ug/kg	50.0		105	70-130	1.15	20
Bromobenzene	55		5	ug/kg	50.0		109	70-130	0.810	20
Bromochloromethane	52		5	ug/kg	50.0		104	70-130	1.29	20
Bromodichloromethane	55		5	ug/kg	50.0		109	70-130	1.87	20
Bromoform	50		5	ug/kg	50.0		100	70-130	1.61	20
Bromomethane	34		5	ug/kg	50.0		68.9	50-150	27.2	30
2-Butanone	46		5	ug/kg	50.0		91.5	50-150	1.63	30
tert-Butyl alcohol	48		5	ug/kg	50.0		95.7	70-130	9.44	20
sec-Butylbenzene	56		5	ug/kg	50.0		112	70-130	0.571	20
n-Butylbenzene	60		5	ug/kg	50.0		119	70-130	0.218	20
tert-Butylbenzene	57		5	ug/kg	50.0		113	70-130	0.530	20
Methyl t-butyl ether (MTBE)	50		5	ug/kg	50.0		99.6	70-130	2.50	20
Carbon Disulfide	46		5	ug/kg	50.0		92.4	50-150	0.389	40
Carbon Tetrachloride	56		5	ug/kg	50.0		111	70-130	2.84	20
Chlorobenzene	53		5	ug/kg	50.0		107	70-130	1.46	20
Chloroethane	40		5	ug/kg	50.0		79.3	50-150	3.52	30
Chloroform	52		5	ug/kg	50.0		105	70-130	3.08	20
Chloromethane	43		5	ug/kg	50.0		85.6	50-150	0.845	30
4-Chlorotoluene	54		5	ug/kg	50.0		108	70-130	0.185	20
2-Chlorotoluene	50		5	ug/kg	50.0		101	70-130	0.00	20
1,2-Dibromo-3-chloropropane (DBCP)	50		5	ug/kg	50.0		99.6	70-130	5.81	20
Dibromochloromethane	50		5	ug/kg	50.0		99.9	70-130	2.62	20
1,2-Dibromoethane (EDB)	48		5	ug/kg	50.0		95.8	70-130	2.17	20
Dibromomethane	51		5	ug/kg	50.0		103	60-140	0.0585	30
1,2-Dichlorobenzene	53		5	ug/kg	50.0		105	70-130	2.74	20
1,3-Dichlorobenzene	55		5	ug/kg	50.0		110	70-130	0.639	20
1,4-Dichlorobenzene	51		5	ug/kg	50.0		102	70-130	3.37	20
1,1-Dichloroethane	51		5	ug/kg	50.0		102	70-130	2.61	20
1,2-Dichloroethane	55		5	ug/kg	50.0		110	70-130	0.384	20
trans-1,2-Dichloroethene	50		5	ug/kg	50.0		99.8	70-130	0.0601	20
cis-1,2-Dichloroethene	52		5	ug/kg	50.0		105	70-130	1.07	20
1,1-Dichloroethene	47		5	ug/kg	50.0		94.5	70-130	2.05	20
1,2-Dichloropropane	55		5	ug/kg	50.0		110	70-130	1.13	20
2,2-Dichloropropane	55		5	ug/kg	50.0		110	70-130	1.02	20
cis-1,3-Dichloropropene	52		5	ug/kg	50.0		105	70-130	1.99	20
trans-1,3-Dichloropropene	50		5	ug/kg	50.0		101	70-130	1.84	20
1,1-Dichloropropene	49		5	ug/kg	50.0		97.3	70-130	3.79	20
Diethyl ether	46		5	ug/kg	50.0		92.9	60-140	0.735	30
1,4-Dioxane	246		100	ug/kg	250		98.6	0-200	3.43	50
Ethylbenzene	57		5	ug/kg	50.0		114	70-130	0.475	20
Hexachlorobutadiene	60		5	ug/kg	50.0		120	70-130	1.84	20
2-Hexanone	43		5	ug/kg	50.0		86.6	50-150	1.51	20
Isopropylbenzene	55		5	ug/kg	50.0		110	70-130	0.00	20
p-Isopropyltoluene	58		5	ug/kg	50.0		117	70-130	1.29	20
Methylene Chloride	56		5	ug/kg	50.0		112	60-140	0.682	30
4-Methyl-2-pentanone	46		5	ug/kg	50.0		91.6	50-150	1.41	20
Naphthalene	45		5	ug/kg	50.0		91.0	70-130	9.03	20
n-Propylbenzene	57		5	ug/kg	50.0		114	70-130	0.0699	20
Styrene	55		5	ug/kg	50.0		111	70-130	0.503	20
1,1,1,2-Tetrachloroethane	57		5	ug/kg	50.0		114	70-130	1.48	20
Tetrachloroethene	54		5	ug/kg	50.0		107	70-130	3.30	20
Tetrahydrofuran	49		5	ug/kg	50.0		98.7	50-150	7.13	40
Toluene	51		5	ug/kg	50.0		103	70-130	0.800	20
1,2,4-Trichlorobenzene	53		5	ug/kg	50.0		106	70-130	11.8	20
1,2,3-Trichlorobenzene	52		5	ug/kg	50.0		105	70-130	24.9	20
1,1,2-Trichloroethane	45		5	ug/kg	50.0		90.4	70-130	0.07	20

Quality Control
(Continued)

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

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0189 - EPA 5035 (Continued)										
LCS Dup (B4C0189-BSD1)					Prepared & Analyzed: 03/05/24					
1,1,1-Trichloroethane	53		5	ug/kg	50.0		106	70-130	2.00	20
Trichloroethene	53		5	ug/kg	50.0		107	70-130	4.50	20
1,2,3-Trichloropropane	52		5	ug/kg	50.0		104	70-130	1.48	20
1,3,5-Trimethylbenzene	57		5	ug/kg	50.0		113	70-130	0.655	20
1,2,4-Trimethylbenzene	60		5	ug/kg	50.0		120	70-130	0.0501	20
Vinyl Chloride	40		5	ug/kg	50.0		79.2	50-150	4.07	30
o-Xylene	58		5	ug/kg	50.0		115	70-130	0.467	20
m&p-Xylene	113		10	ug/kg	100		113	70-130	0.0265	20
1,1,2,2-Tetrachloroethane	50		5	ug/kg	50.0		100	70-130	2.29	20
tert-Amyl methyl ether	48		5	ug/kg	50.0		96.3	70-130	1.00	20
1,3-Dichloropropane	52		5	ug/kg	50.0		104	70-130	1.14	20
Ethyl tert-butyl ether	49		5	ug/kg	50.0		98.2	70-130	4.16	20
Trichlorofluoromethane	45		5	ug/kg	50.0		90.8	50-150	0.863	20
Dichlorodifluoromethane	50		5	ug/kg	50.0		99.1	50-150	2.00	30
<i>Surrogate: 4-Bromofluorobenzene</i>			52.3	ug/kg	50.0		105	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>			49.9	ug/kg	50.0		99.8	70-130		
<i>Surrogate: Toluene-d8</i>			49.7	ug/kg	50.0		99.4	70-130		

Batch: B4C0374 - EPA 5035

Blank (B4C0374-BLK1)

Prepared & Analyzed: 03/08/24

Acetone	ND		100	ug/kg						
Benzene	ND		5	ug/kg						
Bromobenzene	ND		5	ug/kg						
Bromochloromethane	ND		5	ug/kg						
Bromodichloromethane	ND		5	ug/kg						
Bromoform	ND		5	ug/kg						
Bromomethane	ND		5	ug/kg						
2-Butanone	ND		100	ug/kg						
tert-Butyl alcohol	ND		5	ug/kg						
sec-Butylbenzene	ND		5	ug/kg						
n-Butylbenzene	ND		5	ug/kg						
tert-Butylbenzene	ND		5	ug/kg						
Methyl t-butyl ether (MTBE)	ND		5	ug/kg						
Carbon Disulfide	ND		5	ug/kg						
Carbon Tetrachloride	ND		5	ug/kg						
Chlorobenzene	ND		5	ug/kg						
Chloroethane	ND		5	ug/kg						
Chloroform	ND		5	ug/kg						
Chloromethane	ND		5	ug/kg						
4-Chlorotoluene	ND		5	ug/kg						
2-Chlorotoluene	ND		5	ug/kg						
1,2-Dibromo-3-chloropropane (DBCP)	ND		5	ug/kg						
Dibromochloromethane	ND		5	ug/kg						
1,2-Dibromoethane (EDB)	ND		5	ug/kg						
Dibromomethane	ND		5	ug/kg						
1,2-Dichlorobenzene	ND		5	ug/kg						
1,3-Dichlorobenzene	ND		5	ug/kg						
1,4-Dichlorobenzene	ND		5	ug/kg						
1,1-Dichloroethane	ND		5	ug/kg						
1,2-Dichloroethane	ND		5	ug/kg						
trans-1,2-Dichloroethene	ND		5	ug/kg						
1,2 Dichloroethene, Total	ND		5	ug/kg						
cis-1,2-Dichloroethene	ND		5	ug/kg						
1,1-Dichloroethene	ND		5	ug/kg						
1,2-Dichloropropane	ND		5	ug/kg						
2,2-Dichloropropane	ND		5	ug/kg						
cis-1,3-Dichloropropene	ND		5	ug/kg						

Quality Control
(Continued)

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

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0374 - EPA 5035 (Continued)										
Blank (B4C0374-BLK1)					Prepared & Analyzed: 03/08/24					
trans-1,3-Dichloropropene	ND		5	ug/kg						
1,1-Dichloropropene	ND		5	ug/kg						
1,3-Dichloropropene (cis + trans)	ND		5	ug/kg						
Diethyl ether	ND		5	ug/kg						
1,4-Dioxane	ND		100	ug/kg						
Ethylbenzene	ND		5	ug/kg						
Hexachlorobutadiene	ND		5	ug/kg						
2-Hexanone	ND		100	ug/kg						
Isopropylbenzene	ND		5	ug/kg						
p-Isopropyltoluene	ND		5	ug/kg						
Methylene Chloride	ND		5	ug/kg						
4-Methyl-2-pentanone	ND		100	ug/kg						
Naphthalene	ND		5	ug/kg						
n-Propylbenzene	ND		5	ug/kg						
Styrene	ND		5	ug/kg						
1,1,1,2-Tetrachloroethane	ND		5	ug/kg						
Tetrachloroethene	ND		5	ug/kg						
Tetrahydrofuran	ND		5	ug/kg						
Toluene	ND		5	ug/kg						
1,2,4-Trichlorobenzene	ND		5	ug/kg						
1,2,3-Trichlorobenzene	ND		5	ug/kg						
1,1,2-Trichloroethane	ND		5	ug/kg						
1,1,1-Trichloroethane	ND		5	ug/kg						
Trichloroethene	ND		5	ug/kg						
1,2,3-Trichloropropane	ND		5	ug/kg						
1,3,5-Trimethylbenzene	ND		5	ug/kg						
1,2,4-Trimethylbenzene	ND		5	ug/kg						
Vinyl Chloride	ND		5	ug/kg						
o-Xylene	ND		5	ug/kg						
m&p-Xylene	ND		10	ug/kg						
Total xylenes	ND		5	ug/kg						
1,1,2,2-Tetrachloroethane	ND		5	ug/kg						
tert-Amyl methyl ether	ND		5	ug/kg						
1,3-Dichloropropane	ND		5	ug/kg						
Ethyl tert-butyl ether	ND		5	ug/kg						
Diisopropyl ether	ND		5	ug/kg						
Trichlorofluoromethane	ND		5	ug/kg						
Dichlorodifluoromethane	ND		5	ug/kg						
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Surrogate: 4-Bromofluorobenzene			45.5	ug/kg	50.0		90.9	70-130		
Surrogate: 1,2-Dichloroethane-d4			50.9	ug/kg	50.0		102	70-130		
Surrogate: Toluene-d8			47.5	ug/kg	50.0		95.0	70-130		

Quality Control
(Continued)

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

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0374 - EPA 5035 (Continued)					Prepared & Analyzed: 03/08/24					
LCS (B4C0374-BS1)										
Acetone	51		25	ug/kg	50.0		103	50-150		
Benzene	48		5	ug/kg	50.0		96.7	70-130		
Bromobenzene	44		5	ug/kg	50.0		88.9	70-130		
Bromochloromethane	45		5	ug/kg	50.0		90.9	70-130		
Bromodichloromethane	41		5	ug/kg	50.0		82.1	70-130		
Bromoform	47		5	ug/kg	50.0		94.6	70-130		
Bromomethane	50		5	ug/kg	50.0		99.2	50-150		
2-Butanone	49		25	ug/kg	50.0		97.9	50-150		
tert-Butyl alcohol	42		5	ug/kg	50.0		84.3	70-130		
sec-Butylbenzene	46		5	ug/kg	50.0		91.5	70-130		
n-Butylbenzene	49		5	ug/kg	50.0		97.8	70-130		
tert-Butylbenzene	45		5	ug/kg	50.0		90.3	70-130		
Methyl t-butyl ether (MTBE)	47		5	ug/kg	50.0		93.8	70-130		
Carbon Disulfide	42		5	ug/kg	50.0		84.3	50-150		
Carbon Tetrachloride	46		5	ug/kg	50.0		91.0	70-130		
Chlorobenzene	45		5	ug/kg	50.0		89.1	70-130		
Chloroethane	49		5	ug/kg	50.0		97.8	50-150		
Chloroform	46		5	ug/kg	50.0		92.8	70-130		
Chloromethane	49		5	ug/kg	50.0		97.8	50-150		
4-Chlorotoluene	46		5	ug/kg	50.0		91.0	70-130		
2-Chlorotoluene	44		5	ug/kg	50.0		87.1	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	45		5	ug/kg	50.0		90.4	70-130		
Dibromochloromethane	50		5	ug/kg	50.0		99.5	70-130		
1,2-Dibromoethane (EDB)	44		5	ug/kg	50.0		88.7	70-130		
Dibromomethane	44		5	ug/kg	50.0		88.1	60-140		
1,2-Dichlorobenzene	47		5	ug/kg	50.0		94.1	70-130		
1,3-Dichlorobenzene	46		5	ug/kg	50.0		92.6	70-130		
1,4-Dichlorobenzene	47		5	ug/kg	50.0		94.8	70-130		
1,1-Dichloroethane	47		5	ug/kg	50.0		94.2	70-130		
1,2-Dichloroethane	47		5	ug/kg	50.0		93.1	70-130		
trans-1,2-Dichloroethene	48		5	ug/kg	50.0		95.5	70-130		
cis-1,2-Dichloroethene	45		5	ug/kg	50.0		90.0	70-130		
1,1-Dichloroethene	46		5	ug/kg	50.0		91.9	70-130		
1,2-Dichloropropane	46		5	ug/kg	50.0		91.3	70-130		
2,2-Dichloropropane	48		5	ug/kg	50.0		95.1	70-130		
cis-1,3-Dichloropropene	49		5	ug/kg	50.0		97.5	70-130		
trans-1,3-Dichloropropene	49		5	ug/kg	50.0		97.2	70-130		
1,1-Dichloropropene	48		5	ug/kg	50.0		96.8	70-130		
Diethyl ether	44		5	ug/kg	50.0		88.8	60-140		
1,4-Dioxane	251		100	ug/kg	250		100	0-200		
Ethylbenzene	48		5	ug/kg	50.0		95.4	70-130		
Hexachlorobutadiene	46		5	ug/kg	50.0		91.0	70-130		
2-Hexanone	50		25	ug/kg	50.0		100	50-150		
Isopropylbenzene	45		5	ug/kg	50.0		90.2	70-130		
p-Isopropyltoluene	47		5	ug/kg	50.0		94.2	70-130		
Methylene Chloride	41		5	ug/kg	50.0		81.3	60-140		
4-Methyl-2-pentanone	41		25	ug/kg	50.0		81.8	50-150		
Naphthalene	47		5	ug/kg	50.0		94.8	70-130		
n-Propylbenzene	47		5	ug/kg	50.0		93.2	70-130		
Styrene	45		5	ug/kg	50.0		89.4	70-130		
1,1,1,2-Tetrachloroethane	44		5	ug/kg	50.0		87.8	70-130		
Tetrachloroethene	46		5	ug/kg	50.0		92.1	70-130		
Tetrahydrofuran	49		5	ug/kg	50.0		97.7	50-150		
Toluene	48		5	ug/kg	50.0		96.8	70-130		
1,2,4-Trichlorobenzene	45		5	ug/kg	50.0		89.6	70-130		
1,2,3-Trichlorobenzene	44		5	ug/kg	50.0		87.5	70-130		
1,1,2-Trichloroethane	48		5	ug/kg	50.0		96.8	70-130		

Quality Control
(Continued)

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

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0374 - EPA 5035 (Continued)										
LCS (B4C0374-BS1)					Prepared & Analyzed: 03/08/24					
1,1,1-Trichloroethane	46		5	ug/kg	50.0		91.7	70-130		
Trichloroethene	41		5	ug/kg	50.0		82.5	70-130		
1,2,3-Trichloropropane	48		5	ug/kg	50.0		95.3	70-130		
1,3,5-Trimethylbenzene	46		5	ug/kg	50.0		91.7	70-130		
1,2,4-Trimethylbenzene	50		5	ug/kg	50.0		99.6	70-130		
Vinyl Chloride	47		5	ug/kg	50.0		94.9	50-150		
o-Xylene	49		5	ug/kg	50.0		97.3	70-130		
m&p-Xylene	99		10	ug/kg	100		99.1	70-130		
1,1,2,2-Tetrachloroethane	45		5	ug/kg	50.0		90.5	70-130		
tert-Amyl methyl ether	43		5	ug/kg	50.0		85.1	70-130		
1,3-Dichloropropane	48		5	ug/kg	50.0		95.5	70-130		
Ethyl tert-butyl ether	43		5	ug/kg	50.0		86.9	70-130		
Trichlorofluoromethane	48		5	ug/kg	50.0		95.1	50-150		
Dichlorodifluoromethane	48		5	ug/kg	50.0		95.8	50-150		
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Surrogate: 4-Bromofluorobenzene			49.2	ug/kg	50.0		98.4	70-130		
Surrogate: 1,2-Dichloroethane-d4			48.6	ug/kg	50.0		97.2	70-130		
Surrogate: Toluene-d8			49.5	ug/kg	50.0		99.0	70-130		
LCS Dup (B4C0374-BSD1)					Prepared & Analyzed: 03/08/24					
Acetone	50		25	ug/kg	50.0		100	50-150	2.19	30
Benzene	54		5	ug/kg	50.0		107	70-130	10.5	20
Bromobenzene	50		5	ug/kg	50.0		101	70-130	12.6	20
Bromochloromethane	52		5	ug/kg	50.0		104	70-130	13.0	20
Bromodichloromethane	46		5	ug/kg	50.0		92.5	70-130	11.9	20
Bromoform	52		5	ug/kg	50.0		104	70-130	9.41	20
Bromomethane	60		5	ug/kg	50.0		120	50-150	18.7	30
2-Butanone	47		25	ug/kg	50.0		93.8	50-150	4.26	30
tert-Butyl alcohol	49		5	ug/kg	50.0		97.4	70-130	14.4	20
sec-Butylbenzene	51		5	ug/kg	50.0		102	70-130	11.1	20
n-Butylbenzene	60		5	ug/kg	50.0		119	70-130	19.7	20
tert-Butylbenzene	51		5	ug/kg	50.0		101	70-130	11.4	20
Methyl t-butyl ether (MTBE)	52		5	ug/kg	50.0		104	70-130	10.4	20
Carbon Disulfide	51		5	ug/kg	50.0		103	50-150	19.8	40
Carbon Tetrachloride	54		5	ug/kg	50.0		107	70-130	16.2	20
Chlorobenzene	50		5	ug/kg	50.0		99.9	70-130	11.4	20
Chloroethane	54		5	ug/kg	50.0		108	50-150	10.3	30
Chloroform	52		5	ug/kg	50.0		104	70-130	11.3	20
Chloromethane	61		5	ug/kg	50.0		123	50-150	22.7	30
4-Chlorotoluene	50		5	ug/kg	50.0		101	70-130	10.2	20
2-Chlorotoluene	49		5	ug/kg	50.0		98.8	70-130	12.6	20
1,2-Dibromo-3-chloropropane (DBCP)	51		5	ug/kg	50.0		102	70-130	12.1	20
Dibromochloromethane	50		5	ug/kg	50.0		99.8	70-130	0.261	20
1,2-Dibromoethane (EDB)	49		5	ug/kg	50.0		97.3	70-130	9.21	20
Dibromomethane	48		5	ug/kg	50.0		96.4	60-140	8.95	30
1,2-Dichlorobenzene	53		5	ug/kg	50.0		107	70-130	12.5	20
1,3-Dichlorobenzene	53		5	ug/kg	50.0		106	70-130	13.5	20
1,4-Dichlorobenzene	57		5	ug/kg	50.0		114	70-130	17.9	20
1,1-Dichloroethane	53		5	ug/kg	50.0		106	70-130	11.9	20
1,2-Dichloroethane	50		5	ug/kg	50.0		99.0	70-130	6.12	20
trans-1,2-Dichloroethene	53		5	ug/kg	50.0		105	70-130	9.62	20
cis-1,2-Dichloroethene	54		5	ug/kg	50.0		108	70-130	17.8	20
1,1-Dichloroethene	55		5	ug/kg	50.0		110	70-130	17.6	20
1,2-Dichloropropane	51		5	ug/kg	50.0		101	70-130	10.4	20
2,2-Dichloropropane	58		5	ug/kg	50.0		116	70-130	19.7	20
cis-1,3-Dichloropropene	50		5	ug/kg	50.0		100	70-130	2.79	20
trans-1,3-Dichloropropene	52		5	ug/kg	50.0		104	70-130	6.57	20
1,1-Dichloropropene	54		5	ug/kg	50.0		109	70-130	11.5	20

Quality Control
(Continued)

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

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0374 - EPA 5035 (Continued)										
LCS Dup (B4C0374-BSD1)					Prepared & Analyzed: 03/08/24					
Diethyl ether	48		5	ug/kg	50.0		95.8	60-140	7.56	30
1,4-Dioxane	203		100	ug/kg	250		81.0	0-200	21.2	50
Ethylbenzene	55		5	ug/kg	50.0		109	70-130	13.7	20
Hexachlorobutadiene	53		5	ug/kg	50.0		105	70-130	14.5	20
2-Hexanone	43		25	ug/kg	50.0		85.3	50-150	16.0	20
Isopropylbenzene	50		5	ug/kg	50.0		101	70-130	11.3	20
p-Isopropyltoluene	53		5	ug/kg	50.0		107	70-130	12.4	20
Methylene Chloride	47		5	ug/kg	50.0		93.3	60-140	13.7	30
4-Methyl-2-pentanone	42		25	ug/kg	50.0		84.0	50-150	2.65	20
Naphthalene	57		5	ug/kg	50.0		114	70-130	18.2	20
n-Propylbenzene	52		5	ug/kg	50.0		105	70-130	11.7	20
Styrene	51		5	ug/kg	50.0		103	70-130	14.1	20
1,1,1,2-Tetrachloroethane	50		5	ug/kg	50.0		100	70-130	13.2	20
Tetrachloroethene	49		5	ug/kg	50.0		97.4	70-130	5.57	20
Tetrahydrofuran	53		5	ug/kg	50.0		105	50-150	7.57	40
Toluene	50		5	ug/kg	50.0		99.9	70-130	3.09	20
1,2,4-Trichlorobenzene	55		5	ug/kg	50.0		109	70-130	19.9	20
1,2,3-Trichlorobenzene	49		5	ug/kg	50.0		98.8	70-130	12.2	20
1,1,2-Trichloroethane	45		5	ug/kg	50.0		89.1	70-130	8.28	20
1,1,1-Trichloroethane	53		5	ug/kg	50.0		107	70-130	15.4	20
Trichloroethene	50		5	ug/kg	50.0		100	70-130	19.2	20
1,2,3-Trichloropropane	48		5	ug/kg	50.0		95.6	70-130	0.335	20
1,3,5-Trimethylbenzene	51		5	ug/kg	50.0		103	70-130	11.4	20
1,2,4-Trimethylbenzene	56		5	ug/kg	50.0		113	70-130	12.2	20
Vinyl Chloride	56		5	ug/kg	50.0		113	50-150	17.0	30
o-Xylene	55		5	ug/kg	50.0		111	70-130	13.0	20
m&p-Xylene	112		10	ug/kg	100		112	70-130	12.4	20
1,1,2,2-Tetrachloroethane	49		5	ug/kg	50.0		97.2	70-130	7.16	20
tert-Amyl methyl ether	48		5	ug/kg	50.0		95.1	70-130	11.1	20
1,3-Dichloropropane	47		5	ug/kg	50.0		94.3	70-130	1.22	20
Ethyl tert-butyl ether	50		5	ug/kg	50.0		101	70-130	14.7	20
Trichlorofluoromethane	57		5	ug/kg	50.0		115	50-150	18.7	20
Dichlorodifluoromethane	58		5	ug/kg	50.0		117	50-150	19.5	30
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Surrogate: 4-Bromofluorobenzene			46.9	ug/kg	50.0		93.9	70-130		
Surrogate: 1,2-Dichloroethane-d4			48.2	ug/kg	50.0		96.5	70-130		
Surrogate: Toluene-d8			46.5	ug/kg	50.0		93.0	70-130		

Quality Control
(Continued)

Volatile Petroleum Hydrocarbons (MADEP-VPH)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0107 - MADEP VPH										
Blank (B4C0107-BLK1)					Prepared & Analyzed: 03/04/24					
Unadjusted C5-C8 Aliphatic Hydrocarbons	ND		10.0	mg/kg						
Unadjusted C9-C12 Aliphatic Hydrocarbons	ND		12.5	mg/kg						
Benzene	ND		0.2	mg/kg						
Ethylbenzene	ND		0.2	mg/kg						
Methyl t-butyl ether (MTBE)	ND		0.05	mg/kg						
Naphthalene	ND		0.5	mg/kg						
Toluene	ND		0.2	mg/kg						
m&p-Xylene	ND		0.5	mg/kg						
o-Xylene	ND		0.5	mg/kg						
Total xylenes	ND		0.5	mg/kg						
C5-C8 Aliphatic Hydrocarbons	ND		10.0	mg/kg						
C9-C12 Aliphatic Hydrocarbons	ND		12.5	mg/kg						
C9-C10 Aromatic Hydrocarbons	ND		12.5	mg/kg						
<i>Surrogate: 2,5- Dibromotoluene-PID</i>			<i>50.5</i>	<i>ug/l</i>	<i>50.0</i>		<i>101</i>	<i>70-130</i>		
<i>Surrogate: 2,5- Dibromotoluene-FID</i>			<i>49.5</i>	<i>ug/l</i>	<i>50.0</i>		<i>99.0</i>	<i>70-130</i>		
LCS (B4C0107-BS1)					Prepared & Analyzed: 03/04/24					
Benzene	2.6		0.2	mg/kg	2.50		105	70-130		
Ethylbenzene	2.7		0.2	mg/kg	2.50		108	70-130		
Methyl t-butyl ether (MTBE)	2.5		0.05	mg/kg	2.50		101	70-130		
Naphthalene	2.8		0.5	mg/kg	2.50		110	70-130		
Toluene	2.7		0.2	mg/kg	2.50		106	70-130		
m&p-Xylene	5.4		0.5	mg/kg	5.00		108	70-130		
2-Methylpentane	2.7		250	mg/kg	2.50		110	70-130		
n-Nonane	2.2		250	mg/kg	2.50		89.7	70-130		
o-Xylene	2.7		0.5	mg/kg	2.50		106	70-130		
Decane	2.0		250	mg/kg	2.50		81.4	70-130		
n-Butylcyclohexane	2.1		250	mg/kg	2.50		84.5	70-130		
n-Pentane	2.7		250	mg/kg	2.50		107	70-130		
1,2,4-Trimethylbenzene	2.8		0.5	mg/kg	2.50		113	70-130		
VPH_LCS_Aliphatic_C5-C8	8.0		0.5	mg/kg	7.50		106	70-130		
VPH_LCS_Aliphatic_C9-C12	4.1		0.5	mg/kg	5.00		83.0	70-130		
VPH_LCS_Aromatic_C9-C10	2.8		0.5	mg/kg	2.50		113	70-130		
2,2,4-Trimethylpentane	2.6		0.2	mg/kg	2.50		103	70-130		
<i>Surrogate: 2,5- Dibromotoluene-PID</i>			<i>53.1</i>	<i>ug/l</i>	<i>50.0</i>		<i>106</i>	<i>70-130</i>		
<i>Surrogate: 2,5- Dibromotoluene-FID</i>			<i>52.1</i>	<i>ug/l</i>	<i>50.0</i>		<i>104</i>	<i>70-130</i>		

Quality Control

(Continued)

Volatile Petroleum Hydrocarbons (MADEP-VPH) (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
Batch: B4C0107 - MADEP VPH (Continued)									
LCS Dup (B4C0107-BSD1)					Prepared & Analyzed: 03/04/24				
Benzene	2.5		0.2	mg/kg	2.50		102	70-130	3.21
Ethylbenzene	2.6		0.2	mg/kg	2.50		105	70-130	3.38
Methyl t-butyl ether (MTBE)	2.5		0.05	mg/kg	2.50		100	70-130	1.01
Naphthalene	2.7		0.5	mg/kg	2.50		108	70-130	2.22
Toluene	2.6		0.2	mg/kg	2.50		102	70-130	3.55
m&p-Xylene	5.2		0.5	mg/kg	5.00		105	70-130	3.37
2-Methylpentane	2.6		250	mg/kg	2.50		103	70-130	6.19
o-Xylene	2.6		0.5	mg/kg	2.50		104	70-130	2.46
n-Nonane	2.2		250	mg/kg	2.50		88.5	70-130	1.32
Decane	2.0		250	mg/kg	2.50		81.0	70-130	0.517
n-Butylcyclohexane	2.1		250	mg/kg	2.50		84.9	70-130	0.449
n-Pentane	2.5		250	mg/kg	2.50		99.9	70-130	6.41
1,2,4-Trimethylbenzene	2.8		0.5	mg/kg	2.50		111	70-130	1.76
VPH_LCS_Aliphatic_C5-C8	7.6		0.5	mg/kg	7.50		101	70-130	4.92
VPH_LCS_Aliphatic_C9-C12	4.1		0.5	mg/kg	5.00		83.0	70-130	0.0241
VPH_LCS_Aromatic_C9-C10	2.8		0.5	mg/kg	2.50		111	70-130	1.76
2,2,4-Trimethylpentane	2.5		0.2	mg/kg	2.50		101	70-130	2.08
<i>Surrogate: 2,5- Dibromotoluene-PID</i>			50.6	ug/l	50.0		101	70-130	
<i>Surrogate: 2,5- Dibromotoluene-FID</i>			49.4	ug/l	50.0		98.8	70-130	

Quality Control
(Continued)

Semivolatile organic compounds

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0091 - 1_Semivolatiles Extractions										
Blank (B4C0091-BLK1)										
					Prepared: 03/04/24 Analyzed: 03/05/24					
1,2,4-Trichlorobenzene	ND		130	ug/kg						
1,2-Dichlorobenzene	ND		130	ug/kg						
1,3-Dichlorobenzene	ND		130	ug/kg						
1,4-Dichlorobenzene	ND		130	ug/kg						
Phenol	ND		130	ug/kg						
2,4,5-Trichlorophenol	ND		130	ug/kg						
2,4,6-Trichlorophenol	ND		130	ug/kg						
2,4-Dichlorophenol	ND		130	ug/kg						
2,4-Dimethylphenol	ND		330	ug/kg						
2,4-Dinitrophenol	ND		330	ug/kg						
2,4-Dinitrotoluene	ND		130	ug/kg						
2,6-Dinitrotoluene	ND		130	ug/kg						
2-Chloronaphthalene	ND		130	ug/kg						
2-Chlorophenol	ND		130	ug/kg						
2-Methylnaphthalene	ND		130	ug/kg						
Nitrobenzene	ND		130	ug/kg						
2-Methylphenol	ND		130	ug/kg						
2-Nitroaniline	ND		130	ug/kg						
2-Nitrophenol	ND		330	ug/kg						
3,3'-Dichlorobenzidine	ND		330	ug/kg						
3-Nitroaniline	ND		130	ug/kg						
4,6-Dinitro-2-methylphenol	ND		330	ug/kg						
4-Bromophenyl phenyl ether	ND		130	ug/kg						
4-Chloro-3-methylphenol	ND		130	ug/kg						
4-Chloroaniline	ND		130	ug/kg						
4-Chlorophenyl phenyl ether	ND		130	ug/kg						
4-Nitroaniline	ND		130	ug/kg						
4-Nitrophenol	ND		330	ug/kg						
Acenaphthene	ND		130	ug/kg						
Acenaphthylene	ND		130	ug/kg						
Aniline	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						
Benzoic acid	ND		1000	ug/kg						
Biphenyl	ND		20	ug/kg						
Bis(2-chloroethoxy)methane	ND		130	ug/kg						
Bis(2-chloroethyl)ether	ND		130	ug/kg						
Bis(2-chloroisopropyl)ether	ND		130	ug/kg						
Bis(2-ethylhexyl)phthalate	ND		400	ug/kg						
Butyl benzyl phthalate	ND		130	ug/kg						
Chrysene	ND		130	ug/kg						
Di-n-octyl phthalate	ND		200	ug/kg						
Dibenz(a,h)anthracene	ND		130	ug/kg						
Dibenzofuran	ND		130	ug/kg						
Diethyl phthalate	ND		130	ug/kg						
Dimethyl phthalate	ND		330	ug/kg						
Di-n-butyl phthalate	ND		200	ug/kg						
Fluoranthene	ND		130	ug/kg						
Fluorene	ND		130	ug/kg						
Hexachlorobenzene	ND		130	ug/kg						
Hexachlorobutadiene	ND		130	ug/kg						
Hexachlorocyclopentadiene	ND		330	ug/kg						
Hexachloroethane	ND		130	ug/kg						

Quality Control
(Continued)

Semivolatile organic compounds (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0091 - 1_Semivolatiles Extractions (Continued)										
Blank (B4C0091-BLK1)										
					Prepared: 03/04/24 Analyzed: 03/05/24					
Indeno(1,2,3-cd)pyrene	ND		130	ug/kg						
Isophorone	ND		130	ug/kg						
Naphthalene	ND		130	ug/kg						
N-Nitrosodimethylamine	ND		130	ug/kg						
N-Nitrosodi-n-propylamine	ND		130	ug/kg						
N-Nitrosodiphenylamine	ND		130	ug/kg						
Pentachlorophenol	ND		330	ug/kg						
Phenanthrene	ND		130	ug/kg						
Pyrene	ND		130	ug/kg						
m&p-Cresol	ND		260	ug/kg						
Pyridine	ND		130	ug/kg						
Azobenzene	ND		130	ug/kg						
Total Dichlorobenzene	ND		130	ug/kg						
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<i>Surrogate: Nitrobenzene-d5</i>			1920	ug/kg	3330		57.5	30-126		
<i>Surrogate: p-Terphenyl-d14</i>			2280	ug/kg	3330		68.3	47-130		
<i>Surrogate: 2-Fluorobiphenyl</i>			2060	ug/kg	3330		61.8	34-130		
<i>Surrogate: Phenol-d6</i>			1780	ug/kg	3330		53.3	30-130		
<i>Surrogate: 2,4,6-Tribromophenol</i>			1430	ug/kg	3330		42.9	30-130		
<i>Surrogate: 2-Fluorophenol</i>			1700	ug/kg	3330		50.9	30-130		
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LCS (B4C0091-BS1)										
					Prepared: 03/04/24 Analyzed: 03/05/24					
1,2,4-Trichlorobenzene	1920		130	ug/kg	3330		57.5	40-130		
1,2-Dichlorobenzene	1960		130	ug/kg	3330		58.8	40-130		
1,3-Dichlorobenzene	1820		130	ug/kg	3330		54.5	40-130		
1,4-Dichlorobenzene	1750		130	ug/kg	3330		52.6	40-130		
Phenol	1890		130	ug/kg	3330		56.7	40-130		
2,4,5-Trichlorophenol	1840		130	ug/kg	3330		55.2	40-130		
2,4,6-Trichlorophenol	1790		130	ug/kg	3330		53.7	40-130		
2,4-Dichlorophenol	1840		130	ug/kg	3330		55.1	40-130		
2,4-Dimethylphenol	1350		330	ug/kg	3330		40.5	40-130		
2,4-Dinitrophenol	1340		330	ug/kg	3330		40.1	15-140		
2,4-Dinitrotoluene	1970		130	ug/kg	3330		59.0	40-130		
2,6-Dinitrotoluene	2030		130	ug/kg	3330		61.0	40-130		
2-Chloronaphthalene	1920		130	ug/kg	3330		57.5	40-130		
2-Chlorophenol	1890		130	ug/kg	3330		56.7	40-130		
2-Methylnaphthalene	2010		130	ug/kg	3330		60.3	40-130		
Nitrobenzene	1960		130	ug/kg	3330		58.8	40-130		
2-Methylphenol	1860		130	ug/kg	3330		55.8	40-130		
2-Nitroaniline	1990		130	ug/kg	3330		59.6	40-130		
2-Nitrophenol	2080		330	ug/kg	3330		62.3	40-130		
3-Nitroaniline	1940		130	ug/kg	3330		58.3	40-130		
4,6-Dinitro-2-methylphenol	1570		330	ug/kg	3330		47.0	30-130		
4-Bromophenyl phenyl ether	2020		130	ug/kg	3330		60.5	40-130		
4-Chloro-3-methylphenol	1860		130	ug/kg	3330		55.8	40-130		
4-Chlorophenyl phenyl ether	2100		130	ug/kg	3330		62.9	40-130		
4-Nitroaniline	1290		130	ug/kg	3330		38.8	40-130		
4-Nitrophenol	1950		330	ug/kg	3330		58.5	40-130		
Acenaphthene	1920		130	ug/kg	3330		57.6	40-130		
Acenaphthylene	1960		130	ug/kg	3330		58.8	40-130		
Anthracene	1950		130	ug/kg	3330		58.6	40-130		
Benzo(a)anthracene	1960		130	ug/kg	3330		58.7	40-130		
Benzo(a)pyrene	2050		130	ug/kg	3330		61.6	40-130		
Benzo(b)fluoranthene	2190		130	ug/kg	3330		65.8	40-130		
Benzo(g,h,i)perylene	1760		130	ug/kg	3330		52.8	40-130		
Benzo(k)fluoranthene	2310		130	ug/kg	3330		69.2	40-130		
Biphenyl	482		20	ug/kg	833		57.8	40-130		
Bis(2-chloroethoxy)methane	2090		130	ug/kg	3330		62.8	40-130		

Quality Control
(Continued)

Semivolatile organic compounds (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0091 - 1_Semivolatiles Extractions (Continued)										
LCS (B4C0091-BS1)										
					Prepared: 03/04/24 Analyzed: 03/05/24					
Bis(2-chloroethyl)ether	2070		130	ug/kg	3330		62.0	40-130		
Bis(2-chloroisopropyl)ether	2310		130	ug/kg	3330		69.3	40-130		
Bis(2-ethylhexyl)phthalate	2120		400	ug/kg	3330		63.5	40-130		
Butyl benzyl phthalate	2050		130	ug/kg	3330		61.5	40-130		
Chrysene	1980		130	ug/kg	3330		59.4	40-130		
Di-n-octyl phthalate	2440		200	ug/kg	3330		73.1	40-130		
Dibenz(a,h)anthracene	1790		130	ug/kg	3330		53.6	40-130		
Dibenzofuran	2060		130	ug/kg	3330		61.7	40-130		
Diethyl phthalate	1930		130	ug/kg	3330		57.8	40-130		
Dimethyl phthalate	1930		330	ug/kg	3330		58.0	40-130		
Di-n-butyl phthalate	2140		200	ug/kg	3330		64.1	40-130		
Fluoranthene	1970		130	ug/kg	3330		59.0	40-130		
Fluorene	2110		130	ug/kg	3330		63.3	40-130		
Hexachlorobenzene	1980		130	ug/kg	3330		59.4	40-130		
Hexachlorobutadiene	2010		130	ug/kg	3330		60.4	40-130		
Hexachlorocyclopentadiene	1850		330	ug/kg	3330		55.5	40-130		
Hexachloroethane	1820		130	ug/kg	3330		54.7	40-130		
Indeno(1,2,3-cd)pyrene	1700		130	ug/kg	3330		51.1	40-130		
Isophorone	2050		130	ug/kg	3330		61.5	40-130		
Naphthalene	1970		130	ug/kg	3330		59.2	40-130		
N-Nitrosodimethylamine	1610		130	ug/kg	3330		48.2	40-130		
N-Nitrosodi-n-propylamine	1890		130	ug/kg	3330		56.6	40-130		
N-Nitrosodiphenylamine	2310		130	ug/kg	3330		69.3	40-130		
Pentachlorophenol	1940		330	ug/kg	3330		58.1	15-140		
Phenanthrene	1980		130	ug/kg	3330		59.3	40-130		
Pyrene	1880		130	ug/kg	3330		56.4	40-130		
m&p-Cresol	1830		260	ug/kg	3330		55.0	40-130		

Surrogate: Nitrobenzene-d5			2150	ug/kg	3330		64.4	30-126		
Surrogate: p-Terphenyl-d14			2340	ug/kg	3330		70.2	47-130		
Surrogate: 2-Fluorobiphenyl			2210	ug/kg	3330		66.3	34-130		
Surrogate: Phenol-d6			2090	ug/kg	3330		62.6	30-130		
Surrogate: 2,4,6-Tribromophenol			2050	ug/kg	3330		61.4	30-130		
Surrogate: 2-Fluorophenol			2130	ug/kg	3330		64.0	30-130		

Quality Control
(Continued)

Semivolatile organic compounds (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0091 - 1_Semivolatiles Extractions (Continued)										
LCS Dup (B4C0091-BSD1)										
					Prepared: 03/04/24 Analyzed: 03/05/24					
1,2,4-Trichlorobenzene	1710		130	ug/kg	3330		51.2	40-130	11.7	30
1,2-Dichlorobenzene	1700		130	ug/kg	3330		51.0	40-130	14.2	30
1,3-Dichlorobenzene	1580		130	ug/kg	3330		47.5	40-130	13.8	30
1,4-Dichlorobenzene	1500		130	ug/kg	3330		45.1	40-130	15.5	30
Phenol	1670		130	ug/kg	3330		50.2	40-130	12.2	30
2,4,5-Trichlorophenol	1630		130	ug/kg	3330		48.9	40-130	12.2	30
2,4,6-Trichlorophenol	1580		130	ug/kg	3330		47.3	40-130	12.6	30
2,4-Dichlorophenol	1650		130	ug/kg	3330		49.6	40-130	10.5	30
2,4-Dimethylphenol	1220		330	ug/kg	3330		36.6	40-130	10.2	30
2,4-Dinitrophenol	1310		330	ug/kg	3330		39.2	15-140	2.22	30
2,4-Dinitrotoluene	1740		130	ug/kg	3330		52.1	40-130	12.4	30
2,6-Dinitrotoluene	1790		130	ug/kg	3330		53.6	40-130	12.9	30
2-Chloronaphthalene	1720		130	ug/kg	3330		51.7	40-130	10.6	30
2-Chlorophenol	1670		130	ug/kg	3330		50.1	40-130	12.4	30
2-Methylnaphthalene	1840		130	ug/kg	3330		55.3	40-130	8.72	30
Nitrobenzene	1780		130	ug/kg	3330		53.3	40-130	9.78	30
2-Methylphenol	1640		130	ug/kg	3330		49.1	40-130	12.8	30
2-Nitroaniline	1750		130	ug/kg	3330		52.6	40-130	12.6	30
2-Nitrophenol	1820		330	ug/kg	3330		54.6	40-130	13.2	30
3-Nitroaniline	1770		130	ug/kg	3330		53.0	40-130	9.56	30
4,6-Dinitro-2-methylphenol	1490		330	ug/kg	3330		44.6	30-130	5.07	30
4-Bromophenyl phenyl ether	1840		130	ug/kg	3330		55.3	40-130	9.01	30
4-Chloro-3-methylphenol	1700		130	ug/kg	3330		50.9	40-130	9.11	30
4-Chlorophenyl phenyl ether	1860		130	ug/kg	3330		55.7	40-130	12.1	30
4-Nitroaniline	1180		130	ug/kg	3330		35.4	40-130	9.15	30
4-Nitrophenol	1760		330	ug/kg	3330		52.9	40-130	10.2	30
Acenaphthene	1710		130	ug/kg	3330		51.3	40-130	11.5	30
Acenaphthylene	1710		130	ug/kg	3330		51.4	40-130	13.4	30
Anthracene	1770		130	ug/kg	3330		53.1	40-130	9.78	30
Benzo(a)anthracene	1790		130	ug/kg	3330		53.7	40-130	8.90	30
Benzo(a)pyrene	1780		130	ug/kg	3330		53.3	40-130	14.4	30
Benzo(b)fluoranthene	1920		130	ug/kg	3330		57.5	40-130	13.5	30
Benzo(g,h,i)perylene	1540		130	ug/kg	3330		46.1	40-130	13.4	30
Benzo(k)fluoranthene	1990		130	ug/kg	3330		59.8	40-130	14.6	30
Biphenyl	437		20	ug/kg	833		52.5	40-130	9.72	30
Bis(2-chloroethoxy)methane	1870		130	ug/kg	3330		56.2	40-130	11.1	30
Bis(2-chloroethyl)ether	1810		130	ug/kg	3330		54.2	40-130	13.3	30
Bis(2-chloroisopropyl)ether	2020		130	ug/kg	3330		60.6	40-130	13.4	30
Bis(2-ethylhexyl)phthalate	1910		400	ug/kg	3330		57.4	40-130	10.1	30
Butyl benzyl phthalate	1860		130	ug/kg	3330		55.8	40-130	9.62	30
Chrysene	1810		130	ug/kg	3330		54.4	40-130	8.79	30
Di-n-octyl phthalate	2160		200	ug/kg	3330		64.9	40-130	11.9	30
Dibenz(a,h)anthracene	1560		130	ug/kg	3330		46.8	40-130	13.5	30
Dibenzofuran	1810		130	ug/kg	3330		54.3	40-130	12.8	30
Diethyl phthalate	1710		130	ug/kg	3330		51.3	40-130	11.9	30
Dimethyl phthalate	1740		330	ug/kg	3330		52.2	40-130	10.5	30
Di-n-butyl phthalate	1900		200	ug/kg	3330		57.1	40-130	11.5	30
Fluoranthene	1810		130	ug/kg	3330		54.3	40-130	8.19	30
Fluorene	1870		130	ug/kg	3330		56.0	40-130	12.3	30
Hexachlorobenzene	1780		130	ug/kg	3330		53.3	40-130	10.8	30
Hexachlorobutadiene	1790		130	ug/kg	3330		53.8	40-130	11.7	30
Hexachlorocyclopentadiene	1620		330	ug/kg	3330		48.6	40-130	13.4	30
Hexachloroethane	1660		130	ug/kg	3330		49.9	40-130	9.14	30
Indeno(1,2,3-cd)pyrene	1490		130	ug/kg	3330		44.8	40-130	13.1	30
Isophorone	1810		130	ug/kg	3330		54.3	40-130	12.4	30
Naphthalene	1800		130	ug/kg	3330		53.9	40-130	9.37	30
N-Nitrosodimethylamine	1590		130	ug/kg	3330		47.7	40-130	1.64	30

Quality Control
(Continued)

Semivolatile organic compounds (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0091 - 1_Semivolatiles Extractions (Continued)										
LCS Dup (B4C0091-BSD1)					Prepared: 03/04/24 Analyzed: 03/05/24					
N-Nitrosodi-n-propylamine	1700		130	ug/kg	3330		51.0	40-130	10.4	30
N-Nitrosodiphenylamine	2130		130	ug/kg	3330		64.0	40-130	8.01	30
Pentachlorophenol	1800		330	ug/kg	3330		54.0	15-140	7.21	30
Phenanthrene	1790		130	ug/kg	3330		53.6	40-130	10.0	30
Pyrene	1700		130	ug/kg	3330		50.9	40-130	10.2	30
m&p-Cresol	1610		260	ug/kg	3330		48.3	40-130	12.9	30
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<i>Surrogate: Nitrobenzene-d5</i>			1930	ug/kg	3330		58.0	30-126		
<i>Surrogate: p-Terphenyl-d14</i>			2120	ug/kg	3330		63.5	47-130		
<i>Surrogate: 2-Fluorobiphenyl</i>			1950	ug/kg	3330		58.4	34-130		
<i>Surrogate: Phenol-d6</i>			1850	ug/kg	3330		55.4	30-130		
<i>Surrogate: 2,4,6-Tribromophenol</i>			1830	ug/kg	3330		54.9	30-130		
<i>Surrogate: 2-Fluorophenol</i>			1880	ug/kg	3330		56.5	30-130		

Batch: B4C0134 - 1_Semivolatiles Extractions

Blank (B4C0134-BLK1)					Prepared: 03/05/24 Analyzed: 03/06/24					
1,2,4-Trichlorobenzene	ND		130	ug/kg						
1,2-Dichlorobenzene	ND		130	ug/kg						
1,3-Dichlorobenzene	ND		130	ug/kg						
1,4-Dichlorobenzene	ND		130	ug/kg						
Phenol	ND		130	ug/kg						
2,4,5-Trichlorophenol	ND		130	ug/kg						
2,4,6-Trichlorophenol	ND		130	ug/kg						
2,4-Dichlorophenol	ND		130	ug/kg						
2,4-Dimethylphenol	ND		330	ug/kg						
2,4-Dinitrophenol	ND		330	ug/kg						
2,4-Dinitrotoluene	ND		130	ug/kg						
2,6-Dinitrotoluene	ND		130	ug/kg						
2-Chloronaphthalene	ND		130	ug/kg						
2-Chlorophenol	ND		130	ug/kg						
2-Methylnaphthalene	ND		130	ug/kg						
Nitrobenzene	ND		130	ug/kg						
2-Methylphenol	ND		130	ug/kg						
2-Nitroaniline	ND		130	ug/kg						
2-Nitrophenol	ND		330	ug/kg						
3,3'-Dichlorobenzidine	ND		330	ug/kg						
3-Nitroaniline	ND		130	ug/kg						
4,6-Dinitro-2-methylphenol	ND		330	ug/kg						
4-Bromophenyl phenyl ether	ND		130	ug/kg						
4-Chloro-3-methylphenol	ND		130	ug/kg						
4-Chloroaniline	ND		130	ug/kg						
4-Chlorophenyl phenyl ether	ND		130	ug/kg						
4-Nitroaniline	ND		130	ug/kg						
4-Nitrophenol	ND		330	ug/kg						
Acenaphthene	ND		130	ug/kg						
Acenaphthylene	ND		130	ug/kg						
Aniline	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						
Benzoic acid	ND		1000	ug/kg						
Biphenyl	ND		20	ug/kg						
Bis(2-chloroethoxy)methane	ND		130	ug/kg						
Bis(2-chloroethyl)ether	ND		130	ug/kg						
Bis(2-chloroisopropyl)ether	ND		130	ug/kg						

Quality Control
(Continued)

Semivolatile organic compounds (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0134 - 1_Semivolatiles Extractions (Continued)										
Blank (B4C0134-BLK1)				Prepared: 03/05/24 Analyzed: 03/06/24						
Bis(2-ethylhexyl)phthalate	ND		400	ug/kg						
Butyl benzyl phthalate	ND		130	ug/kg						
Chrysene	ND		130	ug/kg						
Di-n-octyl phthalate	ND		200	ug/kg						
Dibenz(a,h)anthracene	ND		130	ug/kg						
Dibenzofuran	ND		130	ug/kg						
Diethyl phthalate	ND		130	ug/kg						
Dimethyl phthalate	ND		330	ug/kg						
Di-n-butyl phthalate	ND		200	ug/kg						
Fluoranthene	ND		130	ug/kg						
Fluorene	ND		130	ug/kg						
Hexachlorobenzene	ND		130	ug/kg						
Hexachlorobutadiene	ND		130	ug/kg						
Hexachlorocyclopentadiene	ND		330	ug/kg						
Hexachloroethane	ND		130	ug/kg						
Indeno(1,2,3-cd)pyrene	ND		130	ug/kg						
Isophorone	ND		130	ug/kg						
Naphthalene	ND		130	ug/kg						
N-Nitrosodimethylamine	ND		130	ug/kg						
N-Nitrosodi-n-propylamine	ND		130	ug/kg						
N-Nitrosodiphenylamine	ND		130	ug/kg						
Pentachlorophenol	ND		330	ug/kg						
Phenanthrene	ND		130	ug/kg						
Pyrene	ND		130	ug/kg						
m&p-Cresol	ND		260	ug/kg						
Pyridine	ND		130	ug/kg						
Azobenzene	ND		130	ug/kg						
Total Dichlorobenzene	ND		130	ug/kg						
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<i>Surrogate: Nitrobenzene-d5</i>			2130	ug/kg	3330		64.0	30-126		
<i>Surrogate: p-Terphenyl-d14</i>			2740	ug/kg	3330		82.2	47-130		
<i>Surrogate: 2-Fluorobiphenyl</i>			2360	ug/kg	3330		70.8	34-130		
<i>Surrogate: Phenol-d6</i>			2050	ug/kg	3330		61.5	30-130		
<i>Surrogate: 2,4,6-Tribromophenol</i>			1870	ug/kg	3330		56.2	30-130		
<i>Surrogate: 2-Fluorophenol</i>			2150	ug/kg	3330		64.5	30-130		

Quality Control
(Continued)

Semivolatile organic compounds (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0134 - 1_Semivolatiles Extractions (Continued)										
LCS (B4C0134-BS1)					Prepared: 03/05/24 Analyzed: 03/06/24					
1,2,4-Trichlorobenzene	1940		130	ug/kg	3330		58.3	40-130		
1,2-Dichlorobenzene	1920		130	ug/kg	3330		57.7	40-130		
1,3-Dichlorobenzene	1810		130	ug/kg	3330		54.4	40-130		
1,4-Dichlorobenzene	1720		130	ug/kg	3330		51.7	40-130		
Phenol	1870		130	ug/kg	3330		56.2	40-130		
2,4,5-Trichlorophenol	1840		130	ug/kg	3330		55.2	40-130		
2,4,6-Trichlorophenol	1830		130	ug/kg	3330		54.9	40-130		
2,4-Dichlorophenol	1870		130	ug/kg	3330		56.2	40-130		
2,4-Dimethylphenol	2000		330	ug/kg	3330		59.9	40-130		
2,4-Dinitrophenol	741		330	ug/kg	3330		22.2	15-140		
2,4-Dinitrotoluene	1950		130	ug/kg	3330		58.6	40-130		
2,6-Dinitrotoluene	2030		130	ug/kg	3330		61.0	40-130		
2-Chloronaphthalene	2000		130	ug/kg	3330		60.0	40-130		
2-Chlorophenol	1840		130	ug/kg	3330		55.1	40-130		
2-Methylnaphthalene	2050		130	ug/kg	3330		61.4	40-130		
Nitrobenzene	1980		130	ug/kg	3330		59.3	40-130		
2-Methylphenol	1950		130	ug/kg	3330		58.4	40-130		
2-Nitroaniline	1950		130	ug/kg	3330		58.4	40-130		
2-Nitrophenol	1840		330	ug/kg	3330		55.2	40-130		
3-Nitroaniline	1980		130	ug/kg	3330		59.5	40-130		
4,6-Dinitro-2-methylphenol	1180		330	ug/kg	3330		35.3	30-130		
4-Bromophenyl phenyl ether	2070		130	ug/kg	3330		62.2	40-130		
4-Chloro-3-methylphenol	1880		130	ug/kg	3330		56.5	40-130		
4-Chlorophenyl phenyl ether	2170		130	ug/kg	3330		65.0	40-130		
4-Nitroaniline	1960		130	ug/kg	3330		58.8	40-130		
4-Nitrophenol	1900		330	ug/kg	3330		56.9	40-130		
Acenaphthene	1950		130	ug/kg	3330		58.5	40-130		
Acenaphthylene	2080		130	ug/kg	3330		62.5	40-130		
Anthracene	2050		130	ug/kg	3330		61.5	40-130		
Benzo(a)anthracene	2110		130	ug/kg	3330		63.4	40-130		
Benzo(a)pyrene	2220		130	ug/kg	3330		66.6	40-130		
Benzo(b)fluoranthene	2260		130	ug/kg	3330		67.7	40-130		
Benzo(g,h,i)perylene	2010		130	ug/kg	3330		60.2	40-130		
Benzo(k)fluoranthene	2400		130	ug/kg	3330		72.0	40-130		
Biphenyl	522		20	ug/kg	833		62.6	40-130		
Bis(2-chloroethoxy)methane	2140		130	ug/kg	3330		64.3	40-130		
Bis(2-chloroethyl)ether	2030		130	ug/kg	3330		61.0	40-130		
Bis(2-chloroisopropyl)ether	2330		130	ug/kg	3330		69.9	40-130		
Bis(2-ethylhexyl)phthalate	2330		400	ug/kg	3330		69.8	40-130		
Butyl benzyl phthalate	2210		130	ug/kg	3330		66.2	40-130		
Chrysene	2180		130	ug/kg	3330		65.3	40-130		
Di-n-octyl phthalate	2470		200	ug/kg	3330		74.0	40-130		
Dibenz(a,h)anthracene	2040		130	ug/kg	3330		61.3	40-130		
Dibenzofuran	2110		130	ug/kg	3330		63.3	40-130		
Diethyl phthalate	2010		130	ug/kg	3330		60.4	40-130		
Dimethyl phthalate	2060		330	ug/kg	3330		61.7	40-130		
Di-n-butyl phthalate	2210		200	ug/kg	3330		66.2	40-130		
Fluoranthene	2070		130	ug/kg	3330		62.0	40-130		
Fluorene	2160		130	ug/kg	3330		64.7	40-130		
Hexachlorobenzene	2050		130	ug/kg	3330		61.6	40-130		
Hexachlorobutadiene	2080		130	ug/kg	3330		62.4	40-130		
Hexachlorocyclopentadiene	2070		330	ug/kg	3330		62.2	40-130		
Hexachloroethane	1830		130	ug/kg	3330		55.0	40-130		
Indeno(1,2,3-cd)pyrene	2000		130	ug/kg	3330		60.1	40-130		
Isophorone	2120		130	ug/kg	3330		63.5	40-130		
Naphthalene	2050		130	ug/kg	3330		61.6	40-130		
N-Nitrosodimethylamine	1870		130	ug/kg	3330		56.2	40-130		

Quality Control
(Continued)

Semivolatile organic compounds (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0134 - 1_Semivolatiles Extractions (Continued)										
LCS (B4C0134-BS1)										
					Prepared: 03/05/24 Analyzed: 03/06/24					
N-Nitrosodi-n-propylamine	1890		130	ug/kg	3330		56.6	40-130		
N-Nitrosodiphenylamine	2540		130	ug/kg	3330		76.3	40-130		
Pentachlorophenol	1580		330	ug/kg	3330		47.3	15-140		
Phenanthrene	2030		130	ug/kg	3330		61.0	40-130		
Pyrene	2030		130	ug/kg	3330		61.0	40-130		
m&p-Cresol	1860		260	ug/kg	3330		55.9	40-130		
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<i>Surrogate: Nitrobenzene-d5</i>			2120	ug/kg	3330		63.7	30-126		
<i>Surrogate: p-Terphenyl-d14</i>			2560	ug/kg	3330		76.9	47-130		
<i>Surrogate: 2-Fluorobiphenyl</i>			2280	ug/kg	3330		68.5	34-130		
<i>Surrogate: Phenol-d6</i>			2040	ug/kg	3330		61.1	30-130		
<i>Surrogate: 2,4,6-Tribromophenol</i>			2110	ug/kg	3330		63.3	30-130		
<i>Surrogate: 2-Fluorophenol</i>			2110	ug/kg	3330		63.3	30-130		
<hr/>										
LCS Dup (B4C0134-BSD1)										
					Prepared: 03/05/24 Analyzed: 03/06/24					
1,2,4-Trichlorobenzene	1920		130	ug/kg	3330		57.6	40-130	1.24	30
1,2-Dichlorobenzene	1800		130	ug/kg	3330		53.9	40-130	6.67	30
1,3-Dichlorobenzene	1730		130	ug/kg	3330		52.0	40-130	4.55	30
1,4-Dichlorobenzene	1670		130	ug/kg	3330		50.2	40-130	2.98	30
Phenol	1790		130	ug/kg	3330		53.8	40-130	4.33	30
2,4,5-Trichlorophenol	1750		130	ug/kg	3330		52.6	40-130	4.90	30
2,4,6-Trichlorophenol	1710		130	ug/kg	3330		51.2	40-130	6.94	30
2,4-Dichlorophenol	1750		130	ug/kg	3330		52.6	40-130	6.58	30
2,4-Dimethylphenol	1870		330	ug/kg	3330		56.0	40-130	6.87	30
2,4-Dinitrophenol	709		330	ug/kg	3330		21.3	15-140	4.32	30
2,4-Dinitrotoluene	1850		130	ug/kg	3330		55.4	40-130	5.68	30
2,6-Dinitrotoluene	2000		130	ug/kg	3330		59.9	40-130	1.79	30
2-Chloronaphthalene	1920		130	ug/kg	3330		57.7	40-130	3.91	30
2-Chlorophenol	1740		130	ug/kg	3330		52.3	40-130	5.25	30
2-Methylnaphthalene	1930		130	ug/kg	3330		58.0	40-130	5.59	30
Nitrobenzene	1910		130	ug/kg	3330		57.2	40-130	3.74	30
2-Methylphenol	1850		130	ug/kg	3330		55.5	40-130	5.13	30
2-Nitroaniline	1890		130	ug/kg	3330		56.7	40-130	2.81	30
2-Nitrophenol	1810		330	ug/kg	3330		54.2	40-130	1.83	30
3-Nitroaniline	1880		130	ug/kg	3330		56.4	40-130	5.38	30
4,6-Dinitro-2-methylphenol	1100		330	ug/kg	3330		33.0	30-130	6.80	30
4-Bromophenyl phenyl ether	1910		130	ug/kg	3330		57.3	40-130	8.23	30
4-Chloro-3-methylphenol	1780		130	ug/kg	3330		53.3	40-130	5.94	30
4-Chlorophenyl phenyl ether	2020		130	ug/kg	3330		60.7	40-130	6.91	30
4-Nitroaniline	1950		130	ug/kg	3330		58.5	40-130	0.409	30
4-Nitrophenol	1850		330	ug/kg	3330		55.4	40-130	2.67	30
Acenaphthene	1850		130	ug/kg	3330		55.5	40-130	5.37	30
Acenaphthylene	1980		130	ug/kg	3330		59.3	40-130	5.26	30
Anthracene	1950		130	ug/kg	3330		58.4	40-130	5.10	30
Benzo(a)anthracene	2020		130	ug/kg	3330		60.7	40-130	4.38	30
Benzo(a)pyrene	2120		130	ug/kg	3330		63.5	40-130	4.83	30
Benzo(b)fluoranthene	2100		130	ug/kg	3330		63.0	40-130	7.28	30
Benzo(g,h,i)perylene	1860		130	ug/kg	3330		55.8	40-130	7.45	30
Benzo(k)fluoranthene	2250		130	ug/kg	3330		67.6	40-130	6.22	30
Biphenyl	485		20	ug/kg	833		58.2	40-130	7.28	30
Bis(2-chloroethoxy)methane	2020		130	ug/kg	3330		60.7	40-130	5.76	30
Bis(2-chloroethyl)ether	1960		130	ug/kg	3330		58.9	40-130	3.47	30
Bis(2-chloroisopropyl)ether	2210		130	ug/kg	3330		66.2	40-130	5.44	30
Bis(2-ethylhexyl)phthalate	2200		400	ug/kg	3330		66.1	40-130	5.39	30
Butyl benzyl phthalate	2120		130	ug/kg	3330		63.7	40-130	3.82	30
Chrysene	2060		130	ug/kg	3330		61.9	40-130	5.41	30
Di-n-octyl phthalate	2320		200	ug/kg	3330		69.6	40-130	6.02	30
Dibenz(a,h)anthracene	1930		130	ug/kg	3330		57.8	40-130	5.94	30

Quality Control
(Continued)

Semivolatile organic compounds (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0134 - 1_Semivolatiles Extractions (Continued)										
LCS Dup (B4C0134-BSD1)					Prepared: 03/05/24 Analyzed: 03/06/24					
Dibenzofuran	1980		130	ug/kg	3330		59.5	40-130	6.19	30
Diethyl phthalate	1930		130	ug/kg	3330		57.8	40-130	4.50	30
Dimethyl phthalate	1940		330	ug/kg	3330		58.1	40-130	6.04	30
Di-n-butyl phthalate	2120		200	ug/kg	3330		63.6	40-130	4.07	30
Fluoranthene	1930		130	ug/kg	3330		58.0	40-130	6.60	30
Fluorene	2070		130	ug/kg	3330		62.2	40-130	3.91	30
Hexachlorobenzene	1900		130	ug/kg	3330		57.1	40-130	7.62	30
Hexachlorobutadiene	1980		130	ug/kg	3330		59.5	40-130	4.63	30
Hexachlorocyclopentadiene	1930		330	ug/kg	3330		57.8	40-130	7.23	30
Hexachloroethane	1710		130	ug/kg	3330		51.2	40-130	7.23	30
Indeno(1,2,3-cd)pyrene	1850		130	ug/kg	3330		55.6	40-130	7.71	30
Isophorone	2000		130	ug/kg	3330		60.1	40-130	5.60	30
Naphthalene	1970		130	ug/kg	3330		59.0	40-130	4.28	30
N-Nitrosodimethylamine	1710		130	ug/kg	3330		51.4	40-130	8.96	30
N-Nitrosodi-n-propylamine	1790		130	ug/kg	3330		53.6	40-130	5.55	30
N-Nitrosodiphenylamine	2380		130	ug/kg	3330		71.4	40-130	6.61	30
Pentachlorophenol	1530		330	ug/kg	3330		45.9	15-140	2.96	30
Phenanthrene	1910		130	ug/kg	3330		57.4	40-130	6.15	30
Pyrene	1890		130	ug/kg	3330		56.7	40-130	7.27	30
m&p-Cresol	1790		260	ug/kg	3330		53.6	40-130	4.20	30
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<i>Surrogate: Nitrobenzene-d5</i>			2030	ug/kg	3330		60.8	30-126		
<i>Surrogate: p-Terphenyl-d14</i>			2390	ug/kg	3330		71.8	47-130		
<i>Surrogate: 2-Fluorobiphenyl</i>			2180	ug/kg	3330		65.3	34-130		
<i>Surrogate: Phenol-d6</i>			1960	ug/kg	3330		58.9	30-130		
<i>Surrogate: 2,4,6-Tribromophenol</i>			1930	ug/kg	3330		58.0	30-130		
<i>Surrogate: 2-Fluorophenol</i>			2010	ug/kg	3330		60.4	30-130		

Quality Control
(Continued)

Polychlorinated Biphenyls (PCBs)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0183 - 1_Semivolatiles Extractions										
Blank (B4C0183-BLK1)										
					Prepared: 03/06/24 Analyzed: 03/07/24					
Aroclor-1016	ND		66	ug/kg						
Aroclor-1221	ND		66	ug/kg						
Aroclor-1232	ND		66	ug/kg						
Aroclor-1242	ND		66	ug/kg						
Aroclor-1248	ND		66	ug/kg						
Aroclor-1254	ND		66	ug/kg						
Aroclor-1260	ND		66	ug/kg						
Aroclor-1262	ND		66	ug/kg						
Aroclor-1268	ND		66	ug/kg						
PCBs (Total)	ND		66	ug/kg						
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene (TCMX)</i>			12.1	ug/kg	13.3		90.5	36.2-130		
<i>Surrogate: Decachlorobiphenyl (DCBP)</i>			12.2	ug/kg	13.3		91.4	43.3-130		
LCS (B4C0183-BS1)										
					Prepared: 03/06/24 Analyzed: 03/07/24					
Aroclor-1016	134		66	ug/kg	167		80.2	58.2-125		
Aroclor-1260	146		66	ug/kg	167		87.8	65.5-130		
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene (TCMX)</i>			4.38	ug/kg	6.67		65.6	36.2-130		
<i>Surrogate: Decachlorobiphenyl (DCBP)</i>			3.94	ug/kg	6.67		59.1	43.3-130		
LCS Dup (B4C0183-BSD1)										
					Prepared: 03/06/24 Analyzed: 03/07/24					
Aroclor-1016	148		66	ug/kg	167		89.1	58.2-125	10.5	20
Aroclor-1260	158		66	ug/kg	167		94.9	65.5-130	7.74	20
<i>Surrogate: 2,4,5,6-Tetrachloro-m-xylene (TCMX)</i>			12.7	ug/kg	13.3		95.5	36.2-130		
<i>Surrogate: Decachlorobiphenyl (DCBP)</i>			12.4	ug/kg	13.3		93.0	43.3-130		

Quality Control
(Continued)

Extractable Petroleum Hydrocarbons (MADEP-EPH)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0052 - 1_Semivolatiles Extractions										
Blank (B4C0052-BLK1)					Prepared: 03/01/24 Analyzed: 03/04/24					
Unadjusted C11-C22 Aromatic Hydrocarbons	ND		6.63	mg/kg						
Naphthalene	ND		0.33	mg/kg						
2-Methylnaphthalene	ND		0.33	mg/kg						
Phenanthrene	ND		0.33	mg/kg						
Acenaphthene	ND		0.33	mg/kg						
Acenaphthylene	ND		0.33	mg/kg						
Fluorene	ND		0.33	mg/kg						
Anthracene	ND		0.33	mg/kg						
Fluoranthene	ND		0.33	mg/kg						
Pyrene	ND		0.33	mg/kg						
Benzo(a)anthracene	ND		0.33	mg/kg						
Chrysene	ND		0.33	mg/kg						
Benzo(b)fluoranthene	ND		0.33	mg/kg						
Benzo(k)fluoranthene	ND		0.33	mg/kg						
Benzo(a)pyrene	ND		0.33	mg/kg						
Indeno(1,2,3-cd)pyrene	ND		0.33	mg/kg						
Dibenz(a,h)anthracene	ND		0.33	mg/kg						
Benzo(g,h,i)perylene	ND		0.33	mg/kg						
C9-C18 Aliphatic Hydrocarbons	ND		13.2	mg/kg						
C19-C36 Aliphatic Hydrocarbons	ND		13.2	mg/kg						
C11-C22 Aromatic Hydrocarbons	ND		6.63	mg/kg						
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Surrogate: Chlorooctadecane			3.45	mg/kg	8.28		41.6	40-140		
Surrogate: o-Terphenyl			3.63	mg/kg	8.28		43.8	40-140		
Surrogate: 2-Fluorobiphenyl			3.16	mg/kg	3.31		95.3	40-140		
Surrogate: 2-Bromonaphthalene			3.18	mg/kg	3.31		96.0	40-140		
LCS (B4C0052-BS1)					Prepared: 03/01/24 Analyzed: 03/04/24					
Naphthalene	1.40		0.33	mg/kg	2.65		52.8	40-140		
2-Methylnaphthalene	1.44		0.33	mg/kg	2.65		54.2	40-140		
Phenanthrene	1.51		0.33	mg/kg	2.65		56.8	40-140		
Acenaphthene	1.43		0.33	mg/kg	2.65		53.8	40-140		
Acenaphthylene	1.44		0.33	mg/kg	2.65		54.3	40-140		
Fluorene	1.37		0.33	mg/kg	2.65		51.8	40-140		
Anthracene	1.53		0.33	mg/kg	2.65		57.7	40-140		
Fluoranthene	1.58		0.33	mg/kg	2.65		59.5	40-140		
Pyrene	1.56		0.33	mg/kg	2.65		59.1	40-140		
Benzo(a)anthracene	1.67		0.33	mg/kg	2.65		63.2	40-140		
Chrysene	1.75		0.33	mg/kg	2.65		66.2	40-140		
Benzo(b)fluoranthene	1.79		0.33	mg/kg	2.65		67.5	40-140		
Benzo(k)fluoranthene	1.73		0.33	mg/kg	2.65		65.4	40-140		
Benzo(a)pyrene	1.65		0.33	mg/kg	2.65		62.4	40-140		
Indeno(1,2,3-cd)pyrene	1.64		0.33	mg/kg	2.65		62.0	40-140		
Dibenz(a,h)anthracene	1.72		0.33	mg/kg	2.65		64.8	40-140		
Benzo(g,h,i)perylene	1.78		0.33	mg/kg	2.65		67.0	40-140		
EPH_LCS_Aliphatic_C19-C36	9.01		0.00	mg/kg	21.2		42.5	40-140		
EPH_LCS_Aliphatic_C9-C18	6.35		0.00	mg/kg	15.9		40.0	40-140		
EPH_LCS_Aromatic_C11-C22	27.0		0.00	mg/kg	45.0		59.9	40-140		
Nonane	0.89		0.33	mg/kg	2.65		33.4	30-140		
Decane	1.07		0.33	mg/kg	2.65		40.3	40-140		
Dodecane	1.12		0.33	mg/kg	2.65		42.1	40-140		
Tetradecane	1.09		0.33	mg/kg	2.65		41.3	40-140		
Hexadecane	1.11		0.33	mg/kg	2.65		41.9	40-140		
Octadecane	1.08		0.33	mg/kg	2.65		40.7	40-140		
Nonadecane	1.16		0.33	mg/kg	2.65		43.8	40-140		
Eicosane	1.07		0.33	mg/kg	2.65		40.4	40-140		
Docosane	1.11		0.33	mg/kg	2.65		42.0	40-140		
Tetracosane	1.16		0.33	mg/kg	2.65		43.6	40-140		

Quality Control
(Continued)

Extractable Petroleum Hydrocarbons (MADEP-EPH) (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4C0052 - 1_Semivolatiles Extractions (Continued)										
LCS (B4C0052-BS1)										
					Prepared: 03/01/24 Analyzed: 03/04/24					
Hexacosane	1.15		0.33	mg/kg	2.65		43.2	40-140		
Octacosane	1.10		0.33	mg/kg	2.65		41.6	40-140		
Triacotane	1.17		0.33	mg/kg	2.65		44.0	40-140		
Hexatriacontane	1.09		0.33	mg/kg	2.65		41.3	40-140		

<i>Surrogate: Chlorooctadecane</i>			<i>3.42</i>	mg/kg	<i>8.28</i>		<i>41.3</i>	<i>40-140</i>		
<i>Surrogate: o-Terphenyl</i>			<i>4.51</i>	mg/kg	<i>8.28</i>		<i>54.4</i>	<i>40-140</i>		
<i>Surrogate: 2-Fluorobiphenyl</i>			<i>3.88</i>	mg/kg	<i>3.31</i>		<i>117</i>	<i>40-140</i>		
<i>Surrogate: 2-Bromonaphthalene</i>			<i>3.89</i>	mg/kg	<i>3.31</i>		<i>117</i>	<i>40-140</i>		

LCS Dup (B4C0052-BSD1)										
					Prepared: 03/01/24 Analyzed: 03/04/24					
Naphthalene	1.25		0.33	mg/kg	2.65		47.1	40-140	11.4	25
2-Methylnaphthalene	1.28		0.33	mg/kg	2.65		48.4	40-140	11.3	25
Phenanthrene	1.40		0.33	mg/kg	2.65		52.7	40-140	7.44	25
Acenaphthene	1.43		0.33	mg/kg	2.65		54.1	40-140	0.556	25
Acenaphthylene	1.27		0.33	mg/kg	2.65		48.0	40-140	12.3	25
Fluorene	1.44		0.33	mg/kg	2.65		54.5	40-140	5.08	25
Anthracene	1.41		0.33	mg/kg	2.65		53.3	40-140	7.88	25
Fluoranthene	1.36		0.33	mg/kg	2.65		51.2	40-140	15.0	25
Pyrene	1.49		0.33	mg/kg	2.65		56.3	40-140	4.81	25
Benzo(a)anthracene	1.50		0.33	mg/kg	2.65		56.8	40-140	10.6	25
Chrysene	1.77		0.33	mg/kg	2.65		66.8	40-140	0.827	25
Benzo(b)fluoranthene	1.56		0.33	mg/kg	2.65		58.7	40-140	13.9	25
Benzo(k)fluoranthene	1.62		0.33	mg/kg	2.65		61.3	40-140	6.47	25
Benzo(a)pyrene	1.64		0.33	mg/kg	2.65		61.7	40-140	1.13	25
Indeno(1,2,3-cd)pyrene	1.50		0.33	mg/kg	2.65		56.8	40-140	8.75	25
Dibenz(a,h)anthracene	1.77		0.33	mg/kg	2.65		67.0	40-140	3.26	25
Benzo(g,h,i)perylene	1.60		0.33	mg/kg	2.65		60.6	40-140	10.1	25
EPH_LCS_Aliphatic_C19-C36	9.94		0.00	mg/kg	21.2		46.9	40-140	9.85	25
EPH_LCS_Aliphatic_C9-C18	6.53		0.00	mg/kg	15.9		41.1	40-140	2.72	25
EPH_LCS_Aromatic_C11-C22	25.3		0.00	mg/kg	45.0		56.2	40-140	6.40	25
Nonane	0.83		0.33	mg/kg	2.65		31.2	30-140	6.80	25
Decane	1.12		0.33	mg/kg	2.65		42.3	40-140	4.84	25
Dodecane	1.07		0.33	mg/kg	2.65		40.5	40-140	3.87	25
Tetradecane	1.07		0.33	mg/kg	2.65		40.3	40-140	2.57	25
Hexadecane	1.08		0.33	mg/kg	2.65		40.6	40-140	3.09	25
Octadecane	1.13		0.33	mg/kg	2.65		42.6	40-140	4.56	25
Nonadecane	1.15		0.33	mg/kg	2.65		43.6	40-140	0.515	25
Eicosane	1.23		0.33	mg/kg	2.65		46.4	40-140	13.7	25
Docosane	1.28		0.33	mg/kg	2.65		48.5	40-140	14.2	25
Tetracosane	1.34		0.33	mg/kg	2.65		50.5	40-140	14.6	25
Hexacosane	1.33		0.33	mg/kg	2.65		50.2	40-140	14.9	25
Octacosane	1.28		0.33	mg/kg	2.65		48.4	40-140	15.1	25
Triacotane	1.22		0.33	mg/kg	2.65		45.9	40-140	4.12	25
Hexatriacontane	1.11		0.33	mg/kg	2.65		41.9	40-140	1.50	25

<i>Surrogate: Chlorooctadecane</i>			<i>3.35</i>	mg/kg	<i>8.28</i>		<i>40.5</i>	<i>40-140</i>		
<i>Surrogate: o-Terphenyl</i>			<i>3.58</i>	mg/kg	<i>8.28</i>		<i>43.3</i>	<i>40-140</i>		
<i>Surrogate: 2-Fluorobiphenyl</i>			<i>2.84</i>	mg/kg	<i>3.31</i>		<i>85.9</i>	<i>40-140</i>		
<i>Surrogate: 2-Bromonaphthalene</i>			<i>2.86</i>	mg/kg	<i>3.31</i>		<i>86.5</i>	<i>40-140</i>		

Notes and Definitions

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

NEW ENGLAND TESTING LABORATORY,
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 1-888-863-8522



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PROJ. NO.		PROJECT NAME/LOCATION		AQUEOUS	SOIL	OTHER	NO. OF CONTAINERS	PRESERVATIVE	TESTS**	REMARKS	
2554		Vacant Land 432 Whitney St., Northborough, MA									
CLIENT		CAPital Environmental, LLC 46 Washburn St., Northborough, MA									
REPORT TO:											
INVOICE TO:											
DATE	TIME	COMP	GRAB	SAMPLE I.D.							
2/24/24	9 ³⁰ A	X		TP-1	18"	X	2VOA 2GLASS	ICE M	X X	X X	use glass jar for dry lot.
2/28/24	9 ⁴⁰ A	X		P-1	4'	X	2VOA 2GLASS	ICE M	X X	X X	
2/28/24	10 ⁰⁰ A	X		TP-2	18"	X	2VOA 2GLASS	ICE M	X X	X X	
2/29/24	10 ¹⁰ A	X		TP-3	18"	X	2VOA 2GLASS	ICE M	X X	X X	
2/29/24	10 ²⁵ A	X		TP-4	18"	X	2VOA 2GLASS	ICE M	X X	X X	
2/29/24	10 ⁴⁰ A	X		P-2	4'	X	2VOA 2GLASS	ICE M	X X	X X	

TESTS**
 PCBs, EPH w/ target, Microle 14
 SVOCs, Corrosivity
 VOCs low
 VPH w/ target

Sampled by: (Signature) <i>Rob Berger</i>	Date/Time 3/1/24 7 ³⁰ A	Received by: (Signature)	Date/Time	Laboratory Remarks: Temp. received: <u>2</u> Cooled <input type="checkbox"/>	Special Instructions: List Specific Detection Limit Requirements:
Relinquished by: (Signature) <i>Ryan</i>	Date/Time 13:29	Received by: (Signature) <i>Ryan</i>	Date/Time 3/1/24 10:23		
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature) <i>NR</i>	Date/Time 13:29 3/1/24		
				Turnaround (Business Days) <u>50 DAY</u>	

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

MassDEP Analytical Protocol Certification Form

Laboratory Name: New England Testing Laboratory, Inc.

Project #: 2554

Project Location: Northborough, MA

RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
4C01011

Matrices: Groundwater/Surface Water Soil/Sediment Drinking Water Air Other:

CAM Protocol (check all that apply below):

8260 VOC CAM II A <input checked="" type="checkbox"/>	7470/7471 Hg CAM III B <input checked="" type="checkbox"/>	MassDEP VPH (GC/PID/FID) CAM IV A <input checked="" type="checkbox"/>	8082 PCB CAM V A <input checked="" type="checkbox"/>	9014 Total Cyanide/PAC CAM VI A <input type="checkbox"/>	6860 Perchlorate CAM VIII B <input type="checkbox"/>
8270 SVOC CAM II B <input checked="" type="checkbox"/>	7010 Metals CAM III C <input type="checkbox"/>	MassDEP VPH (GC/MS) CAM IV C <input type="checkbox"/>	8081 Pesticides CAM V B <input type="checkbox"/>	7196 Hex Cr CAM VI B <input type="checkbox"/>	MassDEP APH CAM IX A <input type="checkbox"/>
6010 Metals CAM III A <input checked="" type="checkbox"/>	6020 Metals CAM III D <input type="checkbox"/>	MassDEP EPH CAM IV B <input checked="" type="checkbox"/>	8151 Herbicides CAM V C <input type="checkbox"/>	8330 Explosives CAM VIII A <input type="checkbox"/>	TO-15 VOC CAM IX B <input type="checkbox"/>

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
E	VPH, EPH, APH, and TO-15 only a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
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Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No ¹

¹All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: 

Position: Laboratory Director

Printed Name: Richard Warila

Date: 3/11/2024