



PHASE II LIMITED SUBSURFACE INVESTIGATION

Cutler Elementary School
237 Asbury Street
South Hamilton, Massachusetts
01982

Prepared for

JCJ Architecture
21 West 3rd Street
Boston, Massachusetts 02127

September 9, 2024

CDW Project #2100.0

TABLE OF CONTENTS

Page

1.0	INTRODUCTION	1
1.1	Purpose.....	1
1.2	Site & Surrounding Area Description.....	1
2.0	SUMMARY OF PHASE I SITE ASSESSMENT.....	1
3.0	LIMITED SUBSURFACE INVESTIGATION	2
3.1	Soil Borings	2
3.2	Soil Screening and Laboratory Samples	2
4.0	NATURE AND EXTENT OF CONTAMINATION	3
4.1	Soil Classifications.....	3
4.2	Soil Sample Analysis Results	3
4.4	Laboratory Quality Assurance/Quality Control.....	4
5.0	FINDINGS & CONCLUSIONS.....	4
5.1	Findings.....	4
5.2	Conclusions.....	4
5.3	Recommendations.....	5
5.4	Cost Estimate	6
6.0	LIMITATIONS.....	6

FIGURES

- Figure 1: Site Location Map
Figure 2: Site Plan with Sampling Locations

TABLES

- Table 1: Laboratory Analysis of Soil Samples

APPENDICES

- APPENDIX A: Soil Boring Logs
APPENDIX B: Soil Laboratory Analytical Report

EXECUTIVE SUMMARY

CDW Consultants, Inc. (CDW), conducted a limited subsurface investigation at the Cutler Elementary School, located at 237 Asbury Street, South Hamilton, Massachusetts. The investigation included the advancement of soil borings, sampling and analysis. This investigation was conducted on August 5 and 6, 2024 and was performed in accordance with Massachusetts General Law (MGL) Chapter 21E. The limited investigation was completed to evaluate the current condition of soil at the Site in the vicinity of Recognized Environmental Conditions (RECs), identified in the Phase 1 Environmental Site Assessment, dated October 2023.

CDW advanced fifteen (15) soil borings (GP-1 through GP-15) at the Site. The soil borings were to be advanced using a direct push technology drill rig. Soil recovery within the acetate sleeves did not indicate the presence of odors, staining, or PID readings greater than background.

Soils encountered during drilling were described as tan to brown fine sand with trace amounts of silt, medium sand, coarse sand, and gravel. Clay was encountered at the bottom of GP-11 at 14 feet below grade and GP-3 at 10 feet below surface grade. Silt with trace clay was also encountered in GP-8, GP-9, GP-5, GP-4. The soils observed for the first five feet are consistent with sandy fill. The soils below the fill layer were consistent with glacial till. Neither groundwater nor bedrock was encountered.

Laboratory analysis of soil samples did not contain detectable concentrations of VOCs or VPH (MassDEP-VPH). GP-3 contained detectable concentrations of C11-C22 Aromatic Hydrocarbons, and C19-C36 Aliphatic Hydrocarbons. These concentrations were well below RCS-1 reportable conditions.

Soil samples collected for analysis for MCP-14 metals identified varying low-level concentrations of Barium, Chromium, Lead, Nickel, Vanadium, Zinc and Mercury. These concentrations were well below RCS-1 reportable conditions. Arsenic was detected in low levels in all samples, however GP-3 (25.8 mg/kg), GP-7 (46.4 mg/kg) and GP-13 (81.3 mg/kg) contained concentrations that exceeded RCS-1 reportable conditions. The source of the arsenic in soil is likely to be naturally occurring. The Site is located in an area documented by the U.S. Geological Survey (2017) as an area of elevated arsenic measured in soil. Additionally, no groundwater was encountered to mobilize the arsenic. Therefore under 310 CMR 40.0317, this condition may be exempt from reporting requirements under 40.0300.



1.0 INTRODUCTION

CDW Consultants, Inc. (CDW), on behalf of our client, JCJ Architecture, conducted a limited subsurface investigation at the Cutler Elementary School, located at 237 Asbury Street, South Hamilton, Massachusetts (Site). The investigation included the advancement of soil borings, soil screening and sampling and analysis. This investigation was conducted in August 2024 and was performed in accordance with Massachusetts General Law (MGL) Chapter 21E.

1.1 Purpose

The limited investigation was completed to evaluate the current condition of soil at the Site in the vicinity of Recognized Environmental Conditions (RECs), identified in the Phase 1 Environmental Site Assessment, dated October 2023.

1.2 Site & Surrounding Area Description

The Cutler Elementary School is a 45,800-sf building constructed in 1951 with modular additions in 1952 and 1956. Another addition was constructed in 1989 (additional classrooms and gym). The school is located on 11.5 acres and serves approximately 300 students in Grades K-5. The Site also contains a bituminous paved parking lots with a baseball field, basketball court and playground. The Site is bound to the north by woods and a horse farm and Harvard Polo Club. To the south and west by Asbury Street with residential properties beyond. To the east by more residential properties and woods. Septic systems are located on the south side near the 1989 addition and gym, and the north-northwest side of the Site building.

2.0 SUMMARY OF PHASE I SITE ASSESSMENT

CDW completed a Phase I Environmental Site Assessment in September and October 2023. CDW has performed the Phase I Environmental Site Assessment of the Subject Property in conformance with the scope and limitations of ASTM Standard E 1527-21. The purpose of the investigation was to determine whether RECs existed for the Site. RECs are indicative of the presence or likely presence of oil or hazardous materials under conditions that indicate an existing release, a past release, or future threat of release. RECs at the Site consist of:

- There is a fuel oil tank and associated piping located under the gym floor. No documentation exists as to the size. It's referred to on building plans from the Mount Version Group, dated 1989.
- The Subject Property's septic systems have been in use historically for the Subject Property. The septic system has not served a commercial property that may have included a dry



cleaner, gas station, or some other use with potential to discharge more than domestic wastewater. However, since the septic systems are listed on the USEPA FINDS database, CDW does consider the two septic systems as possible RECs.

CDW did not identify activities at neighboring properties that would indicate a significant potential for RECs, based on visual inspection and the information contained in the databases reviewed. The Subject Property does not appear on any federal, state or local environmental databases as having any incidences of spills or hazardous waste releases.

3.0 LIMITED SUBSURFACE INVESTIGATION

In July 2024, CDW completed a limited subsurface investigation. The investigation included soil borings, field screening of soil samples, soil sampling and analyses. The limited subsurface investigation was conducted in the vicinity of RECs listed above.

3.1 Soil Borings

On August 5 and 6, 2024, CDW advanced fifteen (15) soil borings (GP-1 through GP-15) at the Site. The soil borings were to be advanced using a direct push technology drill rig. CDW's subcontractor, Crawford Drilling, of Westminister, Massachusetts, conducted the advancement of the soil borings. Soil recovery within the acetate sleeves did not indicate the presence of odors, staining, or photoionization detector (PID) readings greater than background. Refer to Figures 2 for the soil boring locations.

Soils encountered during drilling were described as tan to brown fine sand with trace amounts of silt, medium sand, coarse sand, and gravel. Clay was encountered at the bottom of GP-11 at 14 feet below grade and GP-3 at 10 feet below surface grade. Silt with trace clay was also encountered in GP-8, GP-9, GP-5, GP-4. The soils observed for the first five feet are consistent with sandy fill. The soils below the fill layer were consistent with glacial till. Neither groundwater nor bedrock was encountered. The boring logs are provided in Appendix A.

3.2 Soil Screening and Laboratory Samples

CDW used PID to field-screen soil samples for the presence of total organic volatiles (TOVs) using the headspace method. The PID is an instrument used to quantify TOVs and has a detection limit of 1 part per million by volume (ppmv). The field-screening results did not indicate detectable levels of TOVs in any of the borings. The PID headspace analysis results are summarized on the boring logs in Appendix A.

CDW collected and submitted a total of fifteen (15) soil samples for laboratory analysis for extractible petroleum hydrocarbons (EPH) with target PAHs, volatile petroleum hydrocarbons

(VPH) with target volatile organic compounds (VOCs), and MCP-14 Metals. Due to the lack of PID reading, the soils in the acetate sleeves from 5-10 feet below grade were composited into one sample. From 8-10 feet below grade grab samples were obtained from each boring. The soil samples were preserved by refrigeration and methanol, as appropriate for the analytical method, and were delivered to the laboratory accompanied by a completed chain-of-custody record. CDW's subcontractor, New England Testing Laboratory, Inc., completed the laboratory sample analyses.

4.0 NATURE AND EXTENT OF CONTAMINATION

CDW evaluated the results of the field observations, soil sampling, and laboratory analysis conducted for this subsurface investigation. The laboratory analysis results were compared with applicable Massachusetts Contingency Plan (MCP) Reportable Concentrations (RCs) under applicable soil categories.

4.1 Soil Classifications

The results of laboratory soil analyses were compared with RCs to identify any reporting conditions. The selection of a soil classification of RCS-1, as defined in the MCP, 310 CMR 40.0361(1)(a), for the comparison of RCs, is applicable to the Site because all of the soil sample locations are within 500 feet of a school, residence or park.

4.2 Soil Sample Analysis Results

Laboratory analysis of soil samples did not contain detectable concentrations of VOCs or VPH (MassDEP-VPH). GP-3 contained detectable concentrations of C11-C22 Aromatic Hydrocarbons, and C19-C36 Aliphatic Hydrocarbons. These concentrations were well below RCS-1 reportable conditions.

Soil samples collected for analysis for MCP-14 metals identified varying low-level concentrations of Barium, Chromium, Lead, Nickel, Vanadium, Zinc and Mercury. These concentrations were well below RCS-1 reportable conditions.

Arsenic was detected in low levels in all samples, however GP-3 (25.8 mg/kg), GP-7 (46.4 mg/kg) and GP-13 (81.3 mg/kg) contained concentrations of arsenic that exceeded RCS-1 reportable concentrations. The source of the arsenic in soil is likely to be naturally occurring. The Site is located in an area documented by the U.S. Geological Survey (2017) as an area of elevated arsenic measured in soil. While concentrations detected over 20 mg/kg are considered exempt due to naturally occurring conditions, 20 mg/kg is used as a general indicator of conditions and human health risk and the potential for exposure to this soil should be evaluated as part of future construction activities.

4.4 Laboratory Quality Assurance/Quality Control

Soil samples collected were logged and preserved on ice inside the transport cooler. The chain-of-custody always remained with the samples, as the samples were transported by the sampler to CDW's sample storage refrigerator, picked up by the laboratory courier, and transported by the courier to the laboratory. All sample containers were packed to maintain a temperature of 4°C (± 2 °C) and all temperatures were recorded on the chain of custody.

CDW's subcontractor, New England Testing Laboratory conducted internal Precision, Accuracy, Representativeness, Completeness, and Comparability of all aspects of the data analysis process for Presumptive Certainty as specified in CAM VII, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data." All Quality Control performance standards specified in the CAM protocol(s) were achieved for soil analysis. Refer to the laboratory analytical reports in Appendix B for complete summaries.

5.0 FINDINGS & CONCLUSIONS

Based upon the results of subsurface soil testing and site observations, CDW is presenting our findings and conclusions, and a summary of the key observations upon which these conclusions are based. This investigation was intended to provide a general assessment of current subsurface conditions and was limited in nature and scope.

5.1 Findings

CDW completed fifteen soil borings at the Site as part of a limited subsurface investigation. Field screening for TOVs in soil did not identify PID readings above background. No groundwater or bedrock was encountered. There was no evidence of contamination via staining, odors or petroleum in any of the soil borings.

5.2 Conclusions

Laboratory analysis of soil samples did not contain detectable concentrations of VOCs or VPH (MassDEP-VPH). GP-3 contained detectable concentrations of C11-C22 Aromatic Hydrocarbons, and C19-C36 Aliphatic Hydrocarbons. These concentrations were well below RCS-1 reportable conditions.

Soil samples collected for analysis for MCP-14 metals identified varying low-level concentrations of Barium, Chromium, Lead, Nickel, Vanadium, Zinc and Mercury. These concentrations were well below RCS-1 reportable conditions.

Arsenic was detected in low levels in all samples, and in GP-3 (25.8 mg/kg), GP-7 (46.4 mg/kg) and GP-13 (81.3 mg/kg) contained concentrations that exceeded RCS-1 reportable conditions. The source of the arsenic in soil is likely to be naturally occurring. The Site is located in an area documented by the U.S. Geological Survey (2017) as an area of elevated arsenic measured in soil. Additionally, no groundwater was encountered to mobilize the arsenic. Therefore under 310 CMR 40.0317, this condition may be exempt from reporting requirements under 40.0300.

5.3 Recommendations

Based on the results of the subsurface investigation, CDW has the following recommendations:

The soils on the site contain certain metals below the MCP Reportable Concentrations. These soils are therefore not regulated by the MCP and are not considered a remediation waste once excavated. The soils may be re-used on-site without restriction. Although the presence of the metals is consistent with natural background levels, reuse of these soils off-site needs to be evaluated such that the quality of the exported Site soils is acceptable to the destination site pursuant to MassDEP regulations and policies.

Historical research does not guarantee that all former Site use, storage and disposal practices have been properly recorded and/or are presently known. If evidence of a release to soil and/or groundwater is encountered, measures must be conducted to properly manage those conditions. This study is preliminary in nature and designed to provide a general understanding of soil concentrations throughout the project area. This testing is not to be relied upon for characterization or disposal profiling purposes. Any soils destined for off-site disposal or reuse must be characterized to determine appropriate disposal or reuse options. Any soil used for filling or capping should be tested for arsenic prior to importing. A Soil Management Plan and Health and Safety Plan should be implemented by the Site contractor to manage soil and groundwater and establish procedures for worker health and safety. Also, any soil intended for excavation and disposal outside the property boundaries should be evaluated by an MCP Licensed Site Professional (LSP) prior to off-site disposal.

During the construction phase, if soil will have to be exported, sampling of stockpiled soil will have to occur. The laboratory analytical parameters are dependent on the requirements of the receiving disposal facilities. Pre-characterization begins with collecting one representative composite sample per every 500 cubic yards of soil to be exported for a standard suite of potential contaminants including, but not limited to: MassDEP 14 metals, total petroleum hydrocarbons (TPH), VOCs, SVOCs, Poly-chlorinated Biphenyls (PCBs), Pesticides and herbicides, and ignitability, corrosivity etc. From these results, facilities may be identified that may also require analyses of additional compounds or testing at greater frequencies.



The sampling and analytical program was specific to one or more areas of the Site where potential contamination could or occur. As such, contingency plans should be in place to manage any potentially contaminated soil that may be encountered during new construction. CDW recommends that a contingency be factored into soil excavation planning to allow for evaluation, testing and disposal of any impacted soils discovered during construction that were not discovered during this limited site investigation. Historical research does not guarantee that all former Site use, storage and disposal practices have been properly recorded and/or are presently known. If evidence of a release to soil is encountered, measures must be conducted to properly manage those conditions.

Another option is to reuse soil that is not grossly contaminated on-site. MassDEP permits on-site soil reuse typically when contaminant concentrations do not pose a significant risk to human health and the environment and reuse of soil will not degrade the soil quality at the site. The Similar Soils provision prohibits contaminated soil from being moved to a portion of the site that has lesser contaminant concentrations (i.e., a cleaner area of the site), so some site investigation may be necessary to document site conditions for reuse.

5.4 Cost Estimate

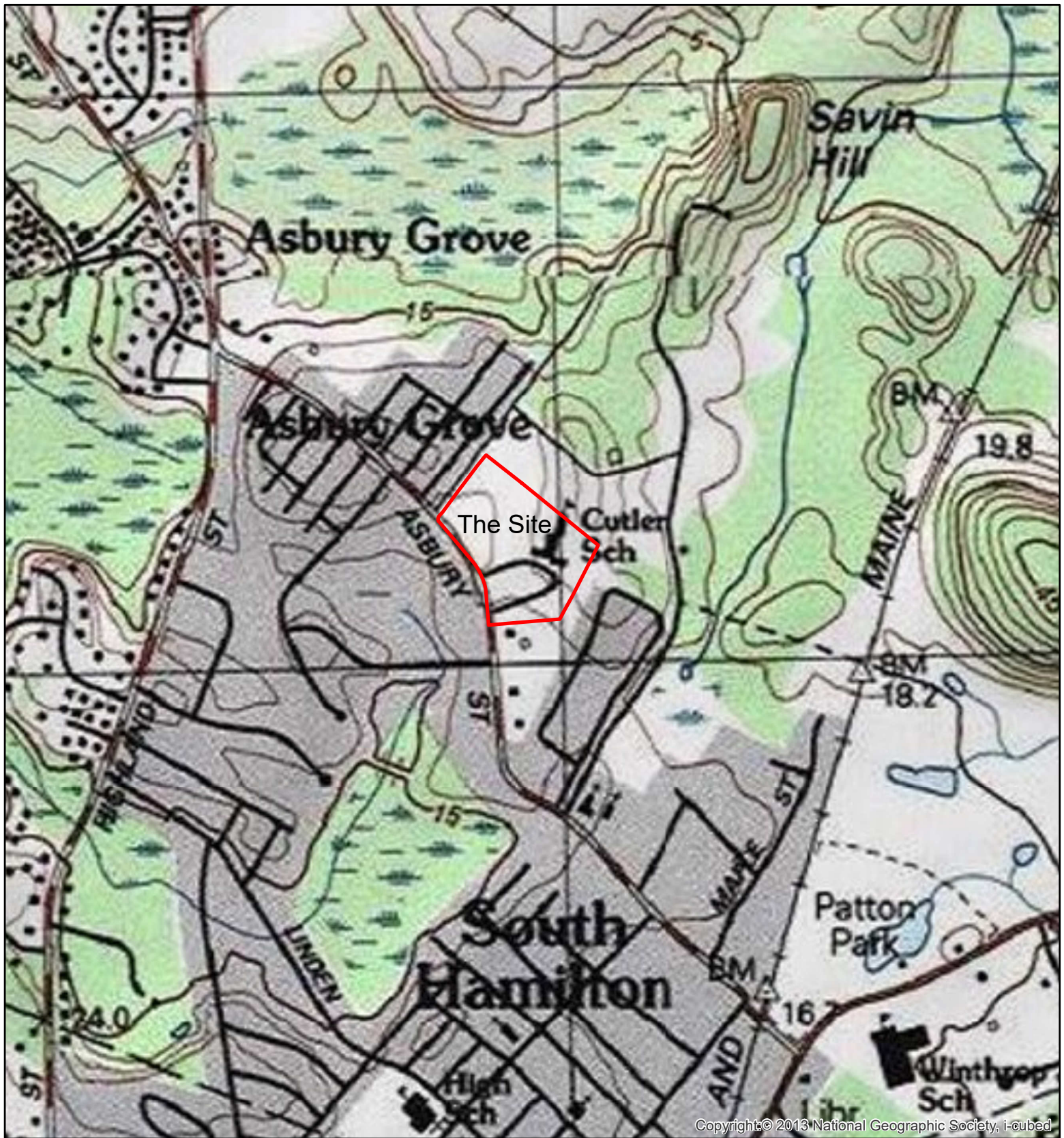
A preliminary cost estimate for known soils impacted with arsenic is provided in the below table.

Material	Location	Amount	Unit (Per Ton)	Total
Soils Containing Arsenic Greater Than RCS-1	Vicinity of GP-3, GP-7 and GP-13	750 CY (1,125 Ton)	\$250	\$281,250
		20% Contingency (Oil Tank)	20% Contingency (56,250)	\$56,250
			TOTAL	\$337,500

6.0 LIMITATIONS

The findings are limited to the information available at the time of the investigation and the scope of services as defined. The results of the limited subsurface exploration performed on this Site provide the basis for the findings and are representative of conditions at the time of the investigation. No other conclusions, interpretations, or recommendations are contained or implied in this report other than those expressed. Also, CDW makes no warranty, expressed or implied, on the accuracy of the work and information completed by others and upon which CDW has relied to prepare this report. No other use of this report is warranted without the written consent of CDW Consultants, Inc.

FIGURES



CDW CONSULTANTS, INC.



Cutler Elementary School
237 Asbury Street South Hamilton, Massachusetts

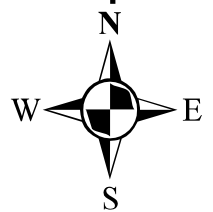


Figure 1 - Site Locus Map

SOURCE : MassGIS

1 inch = 1,000 feet

TABLES

TABLE 1
Soil Analytical Results
Cutler Elementary School

NETLAB Case Number: 4H07007			GP-1 (0-5')	
Lab Sample Number:			4H07007-01	
Date Sampled:			8/5/2024 0:00	
Date Received:			8/7/2024 11:22	
Parameter	MOHML Reportable Concentration S-1	Units	Sample Result	Reporting Limit
Extractable Petroleum Hydrocarbons (MADEP-EPH)				
Naphthalene	4	mg/kg	ND	0.34
2-Methylnaphthalene	0.7	mg/kg	ND	0.34
Phenanthrene	10	mg/kg	ND	0.34
Acenaphthene	4	mg/kg	ND	0.34
Acenaphthylene	2	mg/kg	ND	0.34
Fluorene	1000	mg/kg	ND	0.34
Anthracene	1000	mg/kg	ND	0.34
Fluoranthene	1000	mg/kg	ND	0.34
Pyrene	1000	mg/kg	ND	0.34
Benzo(a)anthracene	20	mg/kg	ND	0.34
Chrysene	200	mg/kg	ND	0.34
Benzo(b)fluoranthene	20	mg/kg	ND	0.34
Benzo(k)fluoranthene	200	mg/kg	ND	0.34
Benzo(a)pyrene	2	mg/kg	ND	0.34
Indeno(1,2,3-cd)pyrene	20	mg/kg	ND	0.34
Dibenz(a,h)anthracene	2	mg/kg	ND	0.34
Benzo(g,h,i)perylene	1000	mg/kg	ND	0.34
C9-C18 Aliphatic Hydrocarbons	1000	mg/kg	ND	13.9
C19-C36 Aliphatic Hydrocarbons	3000	mg/kg	ND	13.9
C11-C22 Aromatic Hydrocarbons	1000	mg/kg	ND	6.96
Total Metals				
Antimony	20	mg/kg	ND	0.86
Arsenic	20	mg/kg	13.9	1.3
Barium	1000	mg/kg	26.7	0.43
Beryllium	100	mg/kg	ND	0.43
Cadmium	80	mg/kg	ND	0.65
Chromium	100	mg/kg	23.5	0.65
Lead	200	mg/kg	14.2	0.65
Nickel	700	mg/kg	15	0.65
Selenium	400	mg/kg	ND	1.3
Silver	100	mg/kg	ND	1.3
Vanadium	500	mg/kg	31.6	0.43
Zinc	1000	mg/kg	75.1	2.6
Thallium	8	mg/kg	ND	0.43
Mercury	20	mg/kg	ND	0.096
Volatile Organic Compounds 8260C (5035-LL)				
Acetone	6	mg/kg	--	--
Benzene	2	mg/kg	--	--
Bromobenzene	100	mg/kg	--	--
Bromochloromethane	--	mg/kg	--	--
Bromodichloromethane	0.1	mg/kg	--	--
Bromoform	0.1	mg/kg	--	--
Bromomethane	0.5	mg/kg	--	--
2-Butanone	4	mg/kg	--	--
tert-Butyl alcohol	100	mg/kg	--	--
sec-Butylbenzene		mg/kg	--	--
n-Butylbenzene	--	mg/kg	--	--
tert-Butylbenzene	100	mg/kg	--	--
Methyl t-butyl ether (MTBE)	0.1	mg/kg	--	--
Carbon Disulfide	100	mg/kg	--	--

mg/kg = Milligrams per kilograms

ND=Not Detected

MOHML=Massachusetts oil and hazardous material list.

Bold = Exceeds Reportable Concentration.

TABLE 1
Soil Analytical Results
Cutler Elementary School

NETLAB Case Number: 4H07007		GP-1 (0-5')		
Lab Sample Number:		4H07007-01		
Date Sampled:		8/5/2024 0:00		
Date Received:		8/7/2024 11:22		
Parameter	MOHML Reportable Concentration S-1	Units	Sample Result	Reporting Limit
Carbon Tetrachloride	5	mg/kg	--	--
Chlorobenzene	1	mg/kg	--	--
Chloroethane	100	mg/kg	--	--
Chloroform	0.2	mg/kg	--	--
Chloromethane	100	mg/kg	--	--
4-Chlorotoluene	--	mg/kg	--	--
2-Chlorotoluene	100	mg/kg	--	--
1,2-Dibromo-3-chloropropane (DBCP)	10	mg/kg	--	--
Dibromochloromethane	0.005	mg/kg	--	--
1,2-Dibromoethane (EDB)	0.1	mg/kg	--	--
Dibromomethane	500	mg/kg	--	--
1,2-Dichlorobenzene	9	mg/kg	--	--
1,3-Dichlorobenzene	3	mg/kg	--	--
1,4-Dichlorobenzene	0.7	mg/kg	--	--
1,1-Dichloroethane	0.4	mg/kg	--	--
1,2-Dichloroethane	0.1	mg/kg	--	--
1,2 Dichloroethene, Total	0.3	mg/kg	--	--
trans-1,2-Dichloroethene	1	mg/kg	--	--
cis-1,2-Dichloroethene	0.1	mg/kg	--	--
1,1-Dichloroethene	3	mg/kg	--	--
1,2-Dichloropropane	0.1	mg/kg	--	--
2,2-Dichloropropane	--	mg/kg	--	--
cis-1,3-Dichloropropene	0.01	mg/kg	--	--
trans-1,3-Dichloropropene	0.01	mg/kg	--	--
1,1-Dichloropropene	--	mg/kg	--	--
1,3-Dichloropropene (cis + trans)	0.01	mg/kg	--	--
Diethyl ether	100	mg/kg	--	--
1,4-Dioxane	0.2	mg/kg	--	--
Ethylbenzene	40	mg/kg	--	--
Hexachlorobutadiene	30	mg/kg	--	--
2-Hexanone	100	mg/kg	--	--
Isopropylbenzene	1000	mg/kg	--	--
p-Isopropyltoluene	100	mg/kg	--	--
Methylene Chloride	0.1	mg/kg	--	--
4-Methyl-2-pentanone	0.4	mg/kg	--	--
Naphthalene	4	mg/kg	--	--
n-Propylbenzene	100	mg/kg	--	--
Styrene	3	mg/kg	--	--
1,1,1,2-Tetrachloroethane	0.1	mg/kg	--	--
Tetrachloroethene	1	mg/kg	--	--
Tetrahydrofuran	500	mg/kg	--	--
Toluene	30	mg/kg	--	--
1,2,4-Trichlorobenzene	2	mg/kg	--	--
1,2,3-Trichlorobenzene	--	mg/kg	--	--
1,1,2-Trichloroethane	0.1	mg/kg	--	--
1,1,1-Trichloroethane	30	mg/kg	--	--
Trichloroethene	0.3	mg/kg	--	--
1,2,3-Trichloropropane	100	mg/kg	--	--
1,3,5-Trimethylbenzene	10	mg/kg	--	--
1,2,4-Trimethylbenzene	1000	mg/kg	--	--
Vinyl Chloride	0.3	mg/kg	--	--
o-Xylene	see Total xylenes	mg/kg	--	--
m&p-Xylene	see Total xylenes	mg/kg	--	--
Total xylenes	100	mg/kg	--	--

mg/kg = Milligrams per kilograms

ND=Not Detected

MOHML=Massachusetts oil and hazardous material list.

Bold = Exceeds Reportable Concentration.

TABLE 1
Soil Analytical Results
Cutler Elementary School

NETLAB Case Number: 4H07007			GP-1 (0-5')	
Lab Sample Number:			4H07007-01	
Date Sampled:			8/5/2024 0:00	
Date Received:			8/7/2024 11:22	
Parameter	MOHML Reportable Concentration S-1	Units	Sample Result	Reporting Limit
1,1,1,2,2-Tetrachloroethane	0.005	mg/kg	--	--
tert-Amyl methyl ether	--	mg/kg	--	--
1,3-Dichloropropane	500	mg/kg	--	--
Ethyl tert-butyl ether	--	mg/kg	--	--
Diisopropyl ether	100	mg/kg	--	--
Trichlorofluoromethane	1000	mg/kg	--	--
Dichlorodifluoromethane	1000	mg/kg	--	--
Volatile Petroleum Hydrocarbons (MADEP-VPH)				
Benzene	2	mg/kg	--	--
Ethylbenzene	40	mg/kg	--	--
Methyl t-butyl ether (MTBE)	0.1	mg/kg	--	--
Naphthalene	4	mg/kg	--	--
Toluene	30	mg/kg	--	--
m&p-Xylene	see Total xylenes	mg/kg	--	--
o-Xylene	see Total xylenes	mg/kg	--	--
Total xylenes	100	mg/kg	--	--
C5-C8 Aliphatic Hydrocarbons	100	mg/kg	--	--
C9-C12 Aliphatic Hydrocarbons	1000	mg/kg	--	--
C9-C10 Aromatic Hydrocarbons	100	mg/kg	--	--

mg/kg = Milligrams per kilograms

ND=Not Detected

MOHML=Massachusetts oil and hazardous material list.

Bold = Exceeds Reportable Concentration.

TABLE 1
Soil Analytical Results
Cutler Elementary School

NETLAB Case Number: 4H07007			GP-1 (4-5')		GP-2 (0-5')		GP-2 (4-5')		GP-3 (1-6')	
Lab Sample Number:			4H07007-02		4H07007-03		4H07007-04		4H07007-05	
Date Sampled:			8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00	
Date Received:			8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22	
Parameter	MOHML Reportable Concentration S-1	Units	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit
Extractable Petroleum Hydrocarbons (MADEP-EPH)										
Naphthalene	4	mg/kg	--	--	ND	0.38	--	--	ND	0.35
2-Methylnaphthalene	0.7	mg/kg	--	--	ND	0.38	--	--	ND	0.35
Phenanthrene	10	mg/kg	--	--	ND	0.38	--	--	ND	0.35
Acenaphthene	4	mg/kg	--	--	ND	0.38	--	--	ND	0.35
Acenaphthylene	2	mg/kg	--	--	ND	0.38	--	--	ND	0.35
Fluorene	1000	mg/kg	--	--	ND	0.38	--	--	ND	0.35
Anthracene	1000	mg/kg	--	--	ND	0.38	--	--	ND	0.35
Fluoranthene	1000	mg/kg	--	--	ND	0.38	--	--	ND	0.35
Pyrene	1000	mg/kg	--	--	ND	0.38	--	--	ND	0.35
Benzo(a)anthracene	20	mg/kg	--	--	ND	0.38	--	--	ND	0.35
Chrysene	200	mg/kg	--	--	ND	0.38	--	--	ND	0.35
Benzo(b)fluoranthene	20	mg/kg	--	--	ND	0.38	--	--	ND	0.35
Benzo(k)fluoranthene	200	mg/kg	--	--	ND	0.38	--	--	ND	0.35
Benzo(a)pyrene	2	mg/kg	--	--	ND	0.38	--	--	ND	0.35
Indeno(1,2,3-cd)pyrene	20	mg/kg	--	--	ND	0.38	--	--	ND	0.35
Dibenz(a,h)anthracene	2	mg/kg	--	--	ND	0.38	--	--	ND	0.35
Benzo(g,h,i)perylene	1000	mg/kg	--	--	ND	0.38	--	--	ND	0.35
C9-C18 Aliphatic Hydrocarbons	1000	mg/kg	--	--	ND	15.1	--	--	ND	14.2
C19-C36 Aliphatic Hydrocarbons	3000	mg/kg	--	--	ND	15.1	--	--	16.2	14.2
C11-C22 Aromatic Hydrocarbons	1000	mg/kg	--	--	ND	7.58	--	--	8.19	7.1
Total Metals										
Antimony	20	mg/kg	--	--	ND	0.89	--	--	ND	0.81
Arsenic	20	mg/kg	--	--	13.8	1.35	--	--	9.72	1.23
Barium	1000	mg/kg	--	--	25.2	0.45	--	--	26.2	0.41
Beryllium	100	mg/kg	--	--	ND	0.45	--	--	ND	0.41
Cadmium	80	mg/kg	--	--	ND	0.68	--	--	ND	0.62
Chromium	100	mg/kg	--	--	18.8	0.68	--	--	17.4	0.62
Lead	200	mg/kg	--	--	12.7	0.68	--	--	11.9	0.62
Nickel	700	mg/kg	--	--	13.5	0.68	--	--	11	0.62
Selenium	400	mg/kg	--	--	ND	1.35	--	--	ND	1.23
Silver	100	mg/kg	--	--	ND	1.35	--	--	ND	1.23
Vanadium	500	mg/kg	--	--	28.1	0.45	--	--	30	0.41
Zinc	1000	mg/kg	--	--	73	2.7	--	--	53.3	2.5
Thallium	8	mg/kg	--	--	ND	0.45	--	--	ND	0.41
Mercury	20	mg/kg	--	--	ND	0.113	--	--	ND	0.091
Volatile Organic Compounds 8260C (5035-LL)										
Acetone	6	mg/kg	ND	0.105	--	--	ND	0.127	--	--
Benzene	2	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Bromobenzene	100	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Bromochloromethane	--	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Bromodichloromethane	0.1	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Bromoform	0.1	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Bromomethane	0.5	mg/kg	ND	0.005	--	--	ND	0.006	--	--
2-Butanone	4	mg/kg	ND	0.105	--	--	ND	0.127	--	--
tert-Butyl alcohol	100	mg/kg	ND	0.005	--	--	ND	0.006	--	--
sec-Butylbenzene	--	mg/kg	ND	0.005	--	--	ND	0.006	--	--
n-Butylbenzene	--	mg/kg	ND	0.005	--	--	ND	0.006	--	--
tert-Butylbenzene	100	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Methyl t-butyl ether (MTBE)	0.1	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Carbon Disulfide	100	mg/kg	ND	0.005	--	--	ND	0.006	--	--

mg/kg = Milligrams per kilograms

ND=Not Detected

MOHML=Massachusetts oil and hazardous material list.

Bold = Exceeds Reportable Concentration.

TABLE 1
Soil Analytical Results
Cutler Elementary School

NETLAB Case Number: 4H07007			GP-1 (4-5')		GP-2 (0-5')		GP-2 (4-5')		GP-3 (1-6')	
Lab Sample Number:			4H07007-02		4H07007-03		4H07007-04		4H07007-05	
Date Sampled:			8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00	
Date Received:			8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22	
Parameter	MOHML Reportable Concentration S-1	Units	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit
Carbon Tetrachloride	5	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Chlorobenzene	1	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Chloroethane	100	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Chloroform	0.2	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Chloromethane	100	mg/kg	ND	0.005	--	--	ND	0.006	--	--
4-Chlorotoluene	--	mg/kg	ND	0.005	--	--	ND	0.006	--	--
2-Chlorotoluene	100	mg/kg	ND	0.005	--	--	ND	0.006	--	--
1,2-Dibromo-3-chloropropane (DBCP)	10	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Dibromochloromethane	0.005	mg/kg	ND	0.005	--	--	ND	0.006	--	--
1,2-Dibromoethane (EDB)	0.1	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Dibromomethane	500	mg/kg	ND	0.005	--	--	ND	0.006	--	--
1,2-Dichlorobenzene	9	mg/kg	ND	0.005	--	--	ND	0.006	--	--
1,3-Dichlorobenzene	3	mg/kg	ND	0.005	--	--	ND	0.006	--	--
1,4-Dichlorobenzene	0.7	mg/kg	ND	0.005	--	--	ND	0.006	--	--
1,1-Dichloroethane	0.4	mg/kg	ND	0.005	--	--	ND	0.006	--	--
1,2-Dichloroethane	0.1	mg/kg	ND	0.005	--	--	ND	0.006	--	--
1,2 Dichloroethene, Total	0.3	mg/kg	ND	0.005	--	--	ND	0.006	--	--
trans-1,2-Dichloroethene	1	mg/kg	ND	0.005	--	--	ND	0.006	--	--
cis-1,2-Dichloroethene	0.1	mg/kg	ND	0.005	--	--	ND	0.006	--	--
1,1-Dichloroethene	3	mg/kg	ND	0.005	--	--	ND	0.006	--	--
1,2-Dichloropropane	0.1	mg/kg	ND	0.005	--	--	ND	0.006	--	--
2,2-Dichloropropane	--	mg/kg	ND	0.005	--	--	ND	0.006	--	--
cis-1,3-Dichloropropene	0.01	mg/kg	ND	0.005	--	--	ND	0.006	--	--
trans-1,3-Dichloropropene	0.01	mg/kg	ND	0.005	--	--	ND	0.006	--	--
1,1-Dichloropropene	--	mg/kg	ND	0.005	--	--	ND	0.006	--	--
1,3-Dichloropropene (cis + trans)	0.01	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Diethyl ether	100	mg/kg	ND	0.005	--	--	ND	0.006	--	--
1,4-Dioxane	0.2	mg/kg	ND	0.105	--	--	ND	0.127	--	--
Ethylbenzene	40	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Hexachlorobutadiene	30	mg/kg	ND	0.005	--	--	ND	0.006	--	--
2-Hexanone	100	mg/kg	ND	0.105	--	--	ND	0.127	--	--
Isopropylbenzene	1000	mg/kg	ND	0.005	--	--	ND	0.006	--	--
p-Isopropyltoluene	100	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Methylene Chloride	0.1	mg/kg	ND	0.005	--	--	ND	0.006	--	--
4-Methyl-2-pentanone	0.4	mg/kg	ND	0.105	--	--	ND	0.127	--	--
Naphthalene	4	mg/kg	ND	0.005	--	--	ND	0.006	--	--
n-Propylbenzene	100	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Styrene	3	mg/kg	ND	0.005	--	--	ND	0.006	--	--
1,1,1,2-Tetrachloroethane	0.1	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Tetrachloroethene	1	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Tetrahydrofuran	500	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Toluene	30	mg/kg	ND	0.005	--	--	ND	0.006	--	--
1,2,4-Trichlorobenzene	2	mg/kg	ND	0.005	--	--	ND	0.006	--	--
1,2,3-Trichlorobenzene	--	mg/kg	ND	0.005	--	--	ND	0.006	--	--
1,1,2-Trichloroethane	0.1	mg/kg	ND	0.005	--	--	ND	0.006	--	--
1,1,1-Trichloroethane	30	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Trichloroethene	0.3	mg/kg	ND	0.005	--	--	ND	0.006	--	--
1,2,3-Trichloropropane	100	mg/kg	ND	0.005	--	--	ND	0.006	--	--
1,3,5-Trimethylbenzene	10	mg/kg	ND	0.005	--	--	ND	0.006	--	--
1,2,4-Trimethylbenzene	1000	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Vinyl Chloride	0.3	mg/kg	ND	0.005	--	--	ND	0.006	--	--
o-Xylene	see Total xylenes	mg/kg	ND	0.005	--	--	ND	0.006	--	--
m&p-Xylene	see Total xylenes	mg/kg	ND	0.01	--	--	ND	0.013	--	--
Total xylenes	100	mg/kg	ND	0.005	--	--	ND	0.006	--	--

mg/kg = Milligrams per kilograms

ND=Not Detected

MOHML=Massachusetts oil and hazardous material list.

Bold = Exceeds Reportable Concentration.

TABLE 1
Soil Analytical Results
Cutler Elementary School

NETLAB Case Number: 4H07007			GP-1 (4-5')		GP-2 (0-5')		GP-2 (4-5')		GP-3 (1-6')	
Lab Sample Number:			4H07007-02		4H07007-03		4H07007-04		4H07007-05	
Date Sampled:			8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00	
Date Received:			8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22	
Parameter	MOHML Reportable Concentration S-1	Units	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit
1,1,2,2-Tetrachloroethane	0.005	mg/kg	ND	0.005	--	--	ND	0.006	--	--
tert-Amyl methyl ether	--	mg/kg	ND	0.005	--	--	ND	0.006	--	--
1,3-Dichloropropane	500	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Ethyl tert-butyl ether	--	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Diisopropyl ether	100	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Trichlorofluoromethane	1000	mg/kg	ND	0.005	--	--	ND	0.006	--	--
Dichlorodifluoromethane	1000	mg/kg	ND	0.005	--	--	ND	0.006	--	--
			ND	0.005						
Volatile Petroleum Hydrocarbons (MADEP-VPH)										
Benzene	2	mg/kg	ND	12.9	--	--	ND	16	--	--
Ethylbenzene	40	mg/kg	ND	16.1	--	--	ND	20	--	--
Methyl t-butyl ether (MTBE)	0.1	mg/kg	ND	0.3	--	--	ND	0.4	--	--
Naphthalene	4	mg/kg	ND	0.3	--	--	ND	0.4	--	--
Toluene	30	mg/kg	ND	0.06	--	--	ND	0.08	--	--
m&p-Xylene	see Total xylenes	mg/kg	ND	0.6	--	--	ND	0.8	--	--
o-Xylene	see Total xylenes	mg/kg	ND	0.3	--	--	ND	0.4	--	--
Total xylenes	100	mg/kg	ND	0.6	--	--	ND	0.8	--	--
C5-C8 Aliphatic Hydrocarbons	100	mg/kg	ND	0.6	--	--	ND	0.8	--	--
C9-C12 Aliphatic Hydrocarbons	1000	mg/kg	ND	0.6	--	--	ND	0.8	--	--
C9-C10 Aromatic Hydrocarbons	100	mg/kg	ND	12.9	--	--	ND	16	--	--

mg/kg = Milligrams per kilograms

ND=Not Detected

MOHML=Massachusetts oil and hazardous material list.

Bold = Exceeds Reportable Concentration.

TABLE 1
Soil Analytical Results
Cutler Elementary School

NETLAB Case Number: 4H07007			GP-3 (5-6')		GP-4 (1-6')		GP-4 (5-6')		GP-3 (1-6')	
Lab Sample Number:			4H07007-06		4H07007-07		4H07007-08		4H07007-09	
Date Sampled:			8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00	
Date Received:			8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22	
Parameter	MOHML Reportable Concentration S-1	Units	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit
Extractable Petroleum Hydrocarbons (MADEP-EPH)										
Naphthalene	4	mg/kg	--	--	ND	0.34	--	--	ND	0.35
2-Methylnaphthalene	0.7	mg/kg	--	--	ND	0.34	--	--	ND	0.35
Phenanthrene	10	mg/kg	--	--	ND	0.34	--	--	ND	0.35
Acenaphthene	4	mg/kg	--	--	ND	0.34	--	--	ND	0.35
Acenaphthylene	2	mg/kg	--	--	ND	0.34	--	--	ND	0.35
Fluorene	1000	mg/kg	--	--	ND	0.34	--	--	ND	0.35
Anthracene	1000	mg/kg	--	--	ND	0.34	--	--	ND	0.35
Fluoranthene	1000	mg/kg	--	--	ND	0.34	--	--	ND	0.35
Pyrene	1000	mg/kg	--	--	ND	0.34	--	--	ND	0.35
Benzo(a)anthracene	20	mg/kg	--	--	ND	0.34	--	--	ND	0.35
Chrysene	200	mg/kg	--	--	ND	0.34	--	--	ND	0.35
Benzo(b)fluoranthene	20	mg/kg	--	--	ND	0.34	--	--	ND	0.35
Benzo(k)fluoranthene	200	mg/kg	--	--	ND	0.34	--	--	ND	0.35
Benzo(a)pyrene	2	mg/kg	--	--	ND	0.34	--	--	ND	0.35
Indeno(1,2,3-cd)pyrene	20	mg/kg	--	--	ND	0.34	--	--	ND	0.35
Dibenz(a,h)anthracene	2	mg/kg	--	--	ND	0.34	--	--	ND	0.35
Benzo(g,h,i)perylene	1000	mg/kg	--	--	ND	0.34	--	--	ND	0.35
C9-C18 Aliphatic Hydrocarbons	1000	mg/kg	--	--	ND	13.7	--	--	ND	14
C19-C36 Aliphatic Hydrocarbons	3000	mg/kg	--	--	ND	13.7	--	--	ND	14
C11-C22 Aromatic Hydrocarbons	1000	mg/kg	--	--	ND	6.88	--	--	ND	7.01
Total Metals										
Antimony	20	mg/kg	--	--	ND	0.72	--	--	ND	0.86
Arsenic	20	mg/kg	--	--	18.5	1.09	--	--	25.8	1.31
Barium	1000	mg/kg	--	--	28.8	0.36	--	--	28.1	0.43
Beryllium	100	mg/kg	--	--	ND	0.36	--	--	ND	0.43
Cadmium	80	mg/kg	--	--	ND	0.54	--	--	ND	0.66
Chromium	100	mg/kg	--	--	30.9	0.54	--	--	15.7	0.66
Lead	200	mg/kg	--	--	15.5	0.54	--	--	22.7	0.66
Nickel	700	mg/kg	--	--	21.4	0.54	--	--	18	0.66
Selenium	400	mg/kg	--	--	ND	1.09	--	--	ND	1.31
Silver	100	mg/kg	--	--	ND	1.09	--	--	ND	1.31
Vanadium	500	mg/kg	--	--	38.8	0.36	--	--	30.6	0.43
Zinc	1000	mg/kg	--	--	72.6	2.2	--	--	77.9	2.6
Thallium	8	mg/kg	--	--	ND	0.36	--	--	ND	0.43
Mercury	20	mg/kg	--	--	ND	0.092	--	--	ND	0.099
Volatile Organic Compounds 8260C (5035-LL)										
Acetone	6	mg/kg	ND	0.11	--	--	ND	0.104	--	--
Benzene	2	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Bromobenzene	100	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Bromochloromethane	--	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Bromodichloromethane	0.1	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Bromoform	0.1	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Bromomethane	0.5	mg/kg	ND	0.005	--	--	ND	0.005	--	--
2-Butanone	4	mg/kg	ND	0.11	--	--	ND	0.104	--	--
tert-Butyl alcohol	100	mg/kg	ND	0.005	--	--	ND	0.005	--	--
sec-Butylbenzene	--	mg/kg	ND	0.005	--	--	ND	0.005	--	--
n-Butylbenzene	--	mg/kg	ND	0.005	--	--	ND	0.005	--	--
tert-Butylbenzene	100	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Methyl t-butyl ether (MTBE)	0.1	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Carbon Disulfide	100	mg/kg	ND	0.005	--	--	ND	0.005	--	--

mg/kg = Milligrams per kilograms

ND=Not Detected

MOHML=Massachusetts oil and hazardous material list.

Bold = Exceeds Reportable Concentration.

TABLE 1
Soil Analytical Results
Cutler Elementary School

NETLAB Case Number: 4H07007			GP-3 (5-6')		GP-4 (1-6')		GP-4 (5-6')		GP-3 (1-6')	
Lab Sample Number:			4H07007-06		4H07007-07		4H07007-08		4H07007-09	
Date Sampled:			8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00	
Date Received:			8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22	
Parameter	MOHML Reportable Concentration S-1	Units	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit
Carbon Tetrachloride	5	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Chlorobenzene	1	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Chloroethane	100	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Chloroform	0.2	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Chloromethane	100	mg/kg	ND	0.005	--	--	ND	0.005	--	--
4-Chlorotoluene	--	mg/kg	ND	0.005	--	--	ND	0.005	--	--
2-Chlorotoluene	100	mg/kg	ND	0.005	--	--	ND	0.005	--	--
1,2-Dibromo-3-chloropropane (DBCP)	10	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Dibromochloromethane	0.005	mg/kg	ND	0.005	--	--	ND	0.005	--	--
1,2-Dibromoethane (EDB)	0.1	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Dibromomethane	500	mg/kg	ND	0.005	--	--	ND	0.005	--	--
1,2-Dichlorobenzene	9	mg/kg	ND	0.005	--	--	ND	0.005	--	--
1,3-Dichlorobenzene	3	mg/kg	ND	0.005	--	--	ND	0.005	--	--
1,4-Dichlorobenzene	0.7	mg/kg	ND	0.005	--	--	ND	0.005	--	--
1,1-Dichloroethane	0.4	mg/kg	ND	0.005	--	--	ND	0.005	--	--
1,2-Dichloroethane	0.1	mg/kg	ND	0.005	--	--	ND	0.005	--	--
1,2 Dichloroethene, Total	0.3	mg/kg	ND	0.005	--	--	ND	0.005	--	--
trans-1,2-Dichloroethene	1	mg/kg	ND	0.005	--	--	ND	0.005	--	--
cis-1,2-Dichloroethene	0.1	mg/kg	ND	0.005	--	--	ND	0.005	--	--
1,1-Dichloroethene	3	mg/kg	ND	0.005	--	--	ND	0.005	--	--
1,2-Dichloropropane	0.1	mg/kg	ND	0.005	--	--	ND	0.005	--	--
2,2-Dichloropropane	--	mg/kg	ND	0.005	--	--	ND	0.005	--	--
cis-1,3-Dichloropropene	0.01	mg/kg	ND	0.005	--	--	ND	0.005	--	--
trans-1,3-Dichloropropene	0.01	mg/kg	ND	0.005	--	--	ND	0.005	--	--
1,1-Dichloropropene	--	mg/kg	ND	0.005	--	--	ND	0.005	--	--
1,3-Dichloropropene (cis + trans)	0.01	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Diethyl ether	100	mg/kg	ND	0.005	--	--	ND	0.005	--	--
1,4-Dioxane	0.2	mg/kg	ND	0.11	--	--	ND	0.104	--	--
Ethylbenzene	40	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Hexachlorobutadiene	30	mg/kg	ND	0.005	--	--	ND	0.005	--	--
2-Hexanone	100	mg/kg	ND	0.11	--	--	ND	0.104	--	--
Isopropylbenzene	1000	mg/kg	ND	0.005	--	--	ND	0.005	--	--
p-Isopropyltoluene	100	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Methylene Chloride	0.1	mg/kg	ND	0.005	--	--	ND	0.005	--	--
4-Methyl-2-pentanone	0.4	mg/kg	ND	0.11	--	--	ND	0.104	--	--
Naphthalene	4	mg/kg	ND	0.005	--	--	ND	0.005	--	--
n-Propylbenzene	100	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Styrene	3	mg/kg	ND	0.005	--	--	ND	0.005	--	--
1,1,1,2-Tetrachloroethane	0.1	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Tetrachloroethene	1	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Tetrahydrofuran	500	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Toluene	30	mg/kg	ND	0.005	--	--	ND	0.005	--	--
1,2,4-Trichlorobenzene	2	mg/kg	ND	0.005	--	--	ND	0.005	--	--
1,2,3-Trichlorobenzene	--	mg/kg	ND	0.005	--	--	ND	0.005	--	--
1,1,2-Trichloroethane	0.1	mg/kg	ND	0.005	--	--	ND	0.005	--	--
1,1,1-Trichloroethane	30	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Trichloroethene	0.3	mg/kg	ND	0.005	--	--	ND	0.005	--	--
1,2,3-Trichloropropane	100	mg/kg	ND	0.005	--	--	ND	0.005	--	--
1,3,5-Trimethylbenzene	10	mg/kg	ND	0.005	--	--	ND	0.005	--	--
1,2,4-Trimethylbenzene	1000	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Vinyl Chloride	0.3	mg/kg	ND	0.005	--	--	ND	0.005	--	--
o-Xylene	see Total xylenes	mg/kg	ND	0.005	--	--	ND	0.005	--	--
m&p-Xylene	see Total xylenes	mg/kg	ND	0.011	--	--	ND	0.01	--	--
Total xylenes	100	mg/kg	ND	0.005	--	--	ND	0.005	--	--

mg/kg = Milligrams per kilograms

ND=Not Detected

MOHML=Massachusetts oil and hazardous material list.

Bold = Exceeds Reportable Concentration.

TABLE 1
Soil Analytical Results
Cutler Elementary School

NETLAB Case Number: 4H07007			GP-3 (5-6')		GP-4 (1-6')		GP-4 (5-6')		GP-3 (1-6')	
Lab Sample Number:			4H07007-06		4H07007-07		4H07007-08		4H07007-09	
Date Sampled:			8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00	
Date Received:			8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22	
Parameter	MOHML Reportable Concentration S-1	Units	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit
1,1,2,2-Tetrachloroethane	0.005	mg/kg	ND	0.005	--	--	ND	0.005	--	--
tert-Amyl methyl ether	--	mg/kg	ND	0.005	--	--	ND	0.005	--	--
1,3-Dichloropropane	500	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Ethyl tert-butyl ether	--	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Diisopropyl ether	100	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Trichlorofluoromethane	1000	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Dichlorodifluoromethane	1000	mg/kg	ND	0.005	--	--	ND	0.005	--	--
Volatile Petroleum Hydrocarbons (MADEP-VPH)										
Benzene	2	mg/kg	ND	12.4	--	--	ND	0.3	--	--
Ethylbenzene	40	mg/kg	ND	15.6	--	--	ND	0.3	--	--
Methyl t-butyl ether (MTBE)	0.1	mg/kg	ND	0.3	--	--	ND	0.06	--	--
Naphthalene	4	mg/kg	ND	0.3	--	--	ND	0.6	--	--
Toluene	30	mg/kg	ND	0.06	--	--	ND	0.3	--	--
m&p-Xylene	see Total xylenes	mg/kg	ND	0.6	--	--	ND	0.6	--	--
o-Xylene	see Total xylenes	mg/kg	ND	0.3	--	--	ND	0.6	--	--
Total xylenes	100	mg/kg	ND	0.6	--	--	ND	0.6	--	--
C5-C8 Aliphatic Hydrocarbons	100	mg/kg	ND	0.6	--	--	ND	12.5	--	--
C9-C12 Aliphatic Hydrocarbons	1000	mg/kg	ND	0.6	--	--	ND	15.6	--	--
C9-C10 Aromatic Hydrocarbons	100	mg/kg	ND	0.6	--	--	ND	15.6	--	--

mg/kg = Milligrams per kilograms

ND=Not Detected

MOHML=Massachusetts oil and hazardous material list.

Bold = Exceeds Reportable Concentration.

TABLE 1
Soil Analytical Results
Cutler Elementary School

NETLAB Case Number: 4H07007			GP-5 (5-6')		GP-6 (10-15')		GP-6 (13-15')		GP-7 (10-15')	
Lab Sample Number:			4H07007-10		4H07007-11		4H07007-12		4H07007-13	
Date Sampled:			8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00	
Date Received:			8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22	
Parameter	MOHML Reportable Concentration S-1	Units	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit
Extractable Petroleum Hydrocarbons (MADEP-EPH)										
Naphthalene	4	mg/kg	--	--	ND	0.38	--	--	ND	0.39
2-Methylnaphthalene	0.7	mg/kg	--	--	ND	0.38	--	--	ND	0.39
Phenanthrene	10	mg/kg	--	--	ND	0.38	--	--	ND	0.39
Acenaphthene	4	mg/kg	--	--	ND	0.38	--	--	ND	0.39
Acenaphthylene	2	mg/kg	--	--	ND	0.38	--	--	ND	0.39
Fluorene	1000	mg/kg	--	--	ND	0.38	--	--	ND	0.39
Anthracene	1000	mg/kg	--	--	ND	0.38	--	--	ND	0.39
Fluoranthene	1000	mg/kg	--	--	ND	0.38	--	--	ND	0.39
Pyrene	1000	mg/kg	--	--	ND	0.38	--	--	ND	0.39
Benzo(a)anthracene	20	mg/kg	--	--	ND	0.38	--	--	ND	0.39
Chrysene	200	mg/kg	--	--	ND	0.38	--	--	ND	0.39
Benzo(b)fluoranthene	20	mg/kg	--	--	ND	0.38	--	--	ND	0.39
Benzo(k)fluoranthene	200	mg/kg	--	--	ND	0.38	--	--	ND	0.39
Benzo(a)pyrene	2	mg/kg	--	--	ND	0.38	--	--	ND	0.39
Indeno(1,2,3-cd)pyrene	20	mg/kg	--	--	ND	0.38	--	--	ND	0.39
Dibenz(a,h)anthracene	2	mg/kg	--	--	ND	0.38	--	--	ND	0.39
Benzo(g,h,i)perylene	1000	mg/kg	--	--	ND	0.38	--	--	ND	0.39
C9-C18 Aliphatic Hydrocarbons	1000	mg/kg	--	--	ND	15.5	--	--	ND	15.7
C19-C36 Aliphatic Hydrocarbons	3000	mg/kg	--	--	ND	15.5	--	--	ND	15.7
C11-C22 Aromatic Hydrocarbons	1000	mg/kg	--	--	ND	7.77	--	--	ND	7.87
Total Metals										
Antimony	20	mg/kg	--	--	ND	0.89	--	--	ND	0.97
Arsenic	20	mg/kg	--	--	12.6	1.34	--	--	46.4	1.47
Barium	1000	mg/kg	--	--	32.4	0.44	--	--	46.3	0.49
Beryllium	100	mg/kg	--	--	ND	0.44	--	--	ND	0.49
Cadmium	80	mg/kg	--	--	ND	0.67	--	--	ND	0.74
Chromium	100	mg/kg	--	--	14.7	0.67	--	--	24.3	0.74
Lead	200	mg/kg	--	--	14.5	0.67	--	--	9.49	0.74
Nickel	700	mg/kg	--	--	9.97	0.67	--	--	24	0.74
Selenium	400	mg/kg	--	--	ND	1.34	--	--	ND	1.47
Silver	100	mg/kg	--	--	ND	1.34	--	--	ND	1.47
Vanadium	500	mg/kg	--	--	18.9	0.44	--	--	36	0.49
Zinc	1000	mg/kg	--	--	36.4	2.7	--	--	50.1	2.9
Thallium	8	mg/kg	--	--	ND	0.44	--	--	ND	0.49
Mercury	20	mg/kg	--	--	ND	0.1	--	--	ND	0.104
Volatile Organic Compounds 8260C (5035-LL)										
Acetone	6	mg/kg	ND	0.111	--	--	ND	0.125	--	--
Benzene	2	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Bromobenzene	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Bromochloromethane	--	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Bromodichloromethane	0.1	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Bromoform	0.1	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Bromomethane	0.5	mg/kg	ND	0.006	--	--	ND	0.006	--	--
2-Butanone	4	mg/kg	ND	0.111	--	--	ND	0.125	--	--
tert-Butyl alcohol	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--
sec-Butylbenzene	--	mg/kg	ND	0.006	--	--	ND	0.006	--	--
n-Butylbenzene	--	mg/kg	ND	0.006	--	--	ND	0.006	--	--
tert-Butylbenzene	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Methyl t-butyl ether (MTBE)	0.1	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Carbon Disulfide	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--

mg/kg = Milligrams per kilograms

ND=Not Detected

MOHML=Massachusetts oil and hazardous material list.

Bold = Exceeds Reportable Concentration.

TABLE 1
Soil Analytical Results
Cutler Elementary School

NETLAB Case Number: 4H07007			GP-5 (5-6')		GP-6 (10-15')		GP-6 (13-15')		GP-7 (10-15')	
Lab Sample Number:			4H07007-10		4H07007-11		4H07007-12		4H07007-13	
Date Sampled:			8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00	
Date Received:			8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22	
Parameter	MOHML Reportable Concentration S-1	Units	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit
Carbon Tetrachloride	5	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Chlorobenzene	1	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Chloroethane	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Chloroform	0.2	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Chloromethane	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--
4-Chlorotoluene	--	mg/kg	ND	0.006	--	--	ND	0.006	--	--
2-Chlorotoluene	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--
1,2-Dibromo-3-chloropropane (DBCP)	10	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Dibromochloromethane	0.005	mg/kg	ND	0.006	--	--	ND	0.006	--	--
1,2-Dibromoethane (EDB)	0.1	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Dibromomethane	500	mg/kg	ND	0.006	--	--	ND	0.006	--	--
1,2-Dichlorobenzene	9	mg/kg	ND	0.006	--	--	ND	0.006	--	--
1,3-Dichlorobenzene	3	mg/kg	ND	0.006	--	--	ND	0.006	--	--
1,4-Dichlorobenzene	0.7	mg/kg	ND	0.006	--	--	ND	0.006	--	--
1,1-Dichloroethane	0.4	mg/kg	ND	0.006	--	--	ND	0.006	--	--
1,2-Dichloroethane	0.1	mg/kg	ND	0.006	--	--	ND	0.006	--	--
1,2 Dichloroethene, Total	0.3	mg/kg	ND	0.006	--	--	ND	0.006	--	--
trans-1,2-Dichloroethene	1	mg/kg	ND	0.006	--	--	ND	0.006	--	--
cis-1,2-Dichloroethene	0.1	mg/kg	ND	0.006	--	--	ND	0.006	--	--
1,1-Dichloroethene	3	mg/kg	ND	0.006	--	--	ND	0.006	--	--
1,2-Dichloropropane	0.1	mg/kg	ND	0.006	--	--	ND	0.006	--	--
2,2-Dichloropropane	--	mg/kg	ND	0.006	--	--	ND	0.006	--	--
cis-1,3-Dichloropropene	0.01	mg/kg	ND	0.006	--	--	ND	0.006	--	--
trans-1,3-Dichloropropene	0.01	mg/kg	ND	0.006	--	--	ND	0.006	--	--
1,1-Dichloropropene	--	mg/kg	ND	0.006	--	--	ND	0.006	--	--
1,3-Dichloropropene (cis + trans)	0.01	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Diethyl ether	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--
1,4-Dioxane	0.2	mg/kg	ND	0.111	--	--	ND	0.125	--	--
Ethylbenzene	40	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Hexachlorobutadiene	30	mg/kg	ND	0.006	--	--	ND	0.006	--	--
2-Hexanone	100	mg/kg	ND	0.111	--	--	ND	0.125	--	--
Isopropylbenzene	1000	mg/kg	ND	0.006	--	--	ND	0.006	--	--
p-Isopropyltoluene	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Methylene Chloride	0.1	mg/kg	ND	0.006	--	--	ND	0.006	--	--
4-Methyl-2-pentanone	0.4	mg/kg	ND	0.111	--	--	ND	0.125	--	--
Naphthalene	4	mg/kg	ND	0.006	--	--	ND	0.006	--	--
n-Propylbenzene	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Styrene	3	mg/kg	ND	0.006	--	--	ND	0.006	--	--
1,1,1,2-Tetrachloroethane	0.1	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Tetrachloroethene	1	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Tetrahydrofuran	500	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Toluene	30	mg/kg	ND	0.006	--	--	ND	0.006	--	--
1,2,4-Trichlorobenzene	2	mg/kg	ND	0.006	--	--	ND	0.006	--	--
1,2,3-Trichlorobenzene	--	mg/kg	ND	0.006	--	--	ND	0.006	--	--
1,1,2-Trichloroethane	0.1	mg/kg	ND	0.006	--	--	ND	0.006	--	--
1,1,1-Trichloroethane	30	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Trichloroethene	0.3	mg/kg	ND	0.006	--	--	ND	0.006	--	--
1,2,3-Trichloropropane	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--
1,3,5-Trimethylbenzene	10	mg/kg	ND	0.006	--	--	ND	0.006	--	--
1,2,4-Trimethylbenzene	1000	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Vinyl Chloride	0.3	mg/kg	ND	0.006	--	--	ND	0.006	--	--
o-Xylene	see Total xylenes	mg/kg	ND	0.006	--	--	ND	0.006	--	--
m&p-Xylene	see Total xylenes	mg/kg	ND	0.011	--	--	ND	0.013	--	--
Total xylenes	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--

mg/kg = Milligrams per kilograms

ND=Not Detected

MOHML=Massachusetts oil and hazardous material list.

Bold = Exceeds Reportable Concentration.

TABLE 1
Soil Analytical Results
Cutler Elementary School

NETLAB Case Number: 4H07007			GP-5 (5-6')		GP-6 (10-15')		GP-6 (13-15')		GP-7 (10-15')	
Lab Sample Number:			4H07007-10		4H07007-11		4H07007-12		4H07007-13	
Date Sampled:			8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00	
Date Received:			8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22	
Parameter	MOHML Reportable Concentration S-1	Units	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit
1,1,2,2-Tetrachloroethane	0.005	mg/kg	ND	0.006	--	--	ND	0.006	--	--
tert-Amyl methyl ether	--	mg/kg	ND	0.006	--	--	ND	0.006	--	--
1,3-Dichloropropane	500	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Ethyl tert-butyl ether	--	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Diisopropyl ether	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Trichlorofluoromethane	1000	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Dichlorodifluoromethane	1000	mg/kg	ND	0.006	--	--	ND	0.006	--	--
Volatile Petroleum Hydrocarbons (MADEP-VPH)										
Benzene	2	mg/kg	ND	0.3	--	--	ND	0.4	--	--
Ethylbenzene	40	mg/kg	ND	0.3	--	--	ND	0.4	--	--
Methyl t-butyl ether (MTBE)	0.1	mg/kg	ND	0.06	--	--	ND	0.08	--	--
Naphthalene	4	mg/kg	ND	0.6	--	--	ND	0.8	--	--
Toluene	30	mg/kg	ND	0.3	--	--	ND	0.4	--	--
m&p-Xylene	see Total xylenes	mg/kg	ND	0.6	--	--	ND	0.8	--	--
o-Xylene	see Total xylenes	mg/kg	ND	0.6	--	--	ND	0.8	--	--
Total xylenes	100	mg/kg	ND	0.6	--	--	ND	0.8	--	--
C5-C8 Aliphatic Hydrocarbons	100	mg/kg	ND	13	--	--	ND	16	--	--
C9-C12 Aliphatic Hydrocarbons	1000	mg/kg	ND	16.2	--	--	ND	20	--	--
C9-C10 Aromatic Hydrocarbons	100	mg/kg	ND	16.2	--	--	ND	20	--	--

mg/kg = Milligrams per kilograms

ND=Not Detected

MOHML=Massachusetts oil and hazardous material list.

Bold = Exceeds Reportable Concentration.

TABLE 1
Soil Analytical Results
Cutler Elementary School

NETLAB Case Number: 4H07007			GP-7 (13-15')		GP-8 (5-10')		GP-8 (8-10')		GP-9 (5-10')		GP-9 (8-10')		GP-10 (1-6')		GP-10 (4-6')	
Lab Sample Number:			4H07007-14		4H07007-15		4H07007-16		4H07007-17		4H07007-18		4H07007-19		4H07007-20	
Date Sampled:			8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00	
Date Received:			8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22	
Parameter	MOHML Reportable Concentration S-1	Units	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit
Extractable Petroleum Hydrocarbons (MADEP-EPH)																
Naphthalene	4	mg/kg	--	--	ND	0.36	--	--	ND	0.38	--	--	ND	0.4	--	--
2-Methylnaphthalene	0.7	mg/kg	--	--	ND	0.36	--	--	ND	0.38	--	--	ND	0.4	--	--
Phenanthrene	10	mg/kg	--	--	ND	0.36	--	--	ND	0.38	--	--	ND	0.4	--	--
Acenaphthene	4	mg/kg	--	--	ND	0.36	--	--	ND	0.38	--	--	ND	0.4	--	--
Acenaphthylene	2	mg/kg	--	--	ND	0.36	--	--	ND	0.38	--	--	ND	0.4	--	--
Fluorene	1000	mg/kg	--	--	ND	0.36	--	--	ND	0.38	--	--	ND	0.4	--	--
Anthracene	1000	mg/kg	--	--	ND	0.36	--	--	ND	0.38	--	--	ND	0.4	--	--
Fluoranthene	1000	mg/kg	--	--	ND	0.36	--	--	ND	0.38	--	--	ND	0.4	--	--
Pyrene	1000	mg/kg	--	--	ND	0.36	--	--	ND	0.38	--	--	ND	0.4	--	--
Benzo(a)anthracene	20	mg/kg	--	--	ND	0.36	--	--	ND	0.38	--	--	ND	0.4	--	--
Chrysene	200	mg/kg	--	--	ND	0.36	--	--	ND	0.38	--	--	ND	0.4	--	--
Benzo(b)fluoranthene	20	mg/kg	--	--	ND	0.36	--	--	ND	0.38	--	--	ND	0.4	--	--
Benzo(k)fluoranthene	200	mg/kg	--	--	ND	0.36	--	--	ND	0.38	--	--	ND	0.4	--	--
Benzo(a)pyrene	2	mg/kg	--	--	ND	0.36	--	--	ND	0.38	--	--	ND	0.4	--	--
Indeno(1,2,3-cd)pyrene	20	mg/kg	--	--	ND	0.36	--	--	ND	0.38	--	--	ND	0.4	--	--
Dibenz(a,h)anthracene	2	mg/kg	--	--	ND	0.36	--	--	ND	0.38	--	--	ND	0.4	--	--
Benzo(g,h,i)perylene	1000	mg/kg	--	--	ND	0.36	--	--	ND	0.38	--	--	ND	0.4	--	--
C9-C18 Aliphatic Hydrocarbons	1000	mg/kg	--	--	ND	14.4	--	--	ND	15.5	--	--	ND	16.3	--	--
C19-C36 Aliphatic Hydrocarbons	3000	mg/kg	--	--	ND	14.4	--	--	ND	15.5	--	--	ND	16.3	--	--
C11-C22 Aromatic Hydrocarbons	1000	mg/kg	--	--	ND	7.23	--	--	ND	7.77	--	--	ND	8.17	--	--
Total Metals																
Antimony	20	mg/kg	--	--	ND	0.76	--	--	ND	0.86	--	--	ND	0.85	--	--
Arsenic	20	mg/kg	--	--	12	1.15	--	--	15.8	1.31	--	--	5.58	1.29	--	--
Barium	1000	mg/kg	--	--	16.3	0.38	--	--	70.6	0.43	--	--	48	0.43	--	--
Beryllium	100	mg/kg	--	--	ND	0.38	--	--	ND	0.43	--	--	ND	0.43	--	--
Cadmium	80	mg/kg	--	--	ND	0.58	--	--	ND	0.65	--	--	ND	0.65	--	--
Chromium	100	mg/kg	--	--	6.85	0.58	--	--	32.3	0.65	--	--	7.69	0.65	--	--
Lead	200	mg/kg	--	--	3.98	0.58	--	--	10.5	0.65	--	--	3.25	0.65	--	--
Nickel	700	mg/kg	--	--	6.84	0.58	--	--	22.3	0.65	--	--	7.29	0.65	--	--
Selenium	400	mg/kg	--	--	ND	1.15	--	--	ND	1.31	--	--	ND	1.29	--	--
Silver	100	mg/kg	--	--	ND	1.15	--	--	ND	1.31	--	--	ND	1.29	--	--
Vanadium	500	mg/kg	--	--	9.21	0.38	--	--	41.3	0.43	--	--	26.9	0.43	--	--
Zinc	1000	mg/kg	--	--	21.1	2.3	--	--	60.6	2.6	--	--	54.8	2.6	--	--
Thallium	8	mg/kg	--	--	ND	0.38	--	--	ND	0.43	--	--	ND	0.43	--	--
Mercury	20	mg/kg	--	--	ND	0.104	--	--	ND	0.108	--	--	ND	0.112	--	--
Volatile Organic Compounds 8260C (5035-LL)																
Acetone	6	mg/kg	ND	0.129	--	--	ND	0.121	--	--	ND	0.121	--	--	ND	0.12
Benzene	2	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Bromobenzene	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Bromochloromethane	--	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Bromodichloromethane	0.1	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Bromoform	0.1	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Bromomethane	0.5	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
2-Butanone	4	mg/kg	ND	0.129	--	--	ND	0.121	--	--	ND	0.121	--	--	ND	0.12
tert-Butyl alcohol	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
sec-Butylbenzene	--	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
n-Butylbenzene	--	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
tert-Butylbenzene	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Methyl t-butyl ether (MTBE)	0.1	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Carbon Disulfide	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006

mg/kg = Milligrams per kilograms

ND=Not Detected

MOHML=Massachusetts oil and hazardous material list.

Bold = Exceeds Reportable Concentration.

TABLE 1
Soil Analytical Results
Cutler Elementary School

NETLAB Case Number: 4H07007			GP-7 (13-15')		GP-8 (5-10')		GP-8 (8-10')		GP-9 (5-10')		GP-9 (8-10')		GP-10 (1-6')		GP-10 (4-6')	
Lab Sample Number:			4H07007-14		4H07007-15		4H07007-16		4H07007-17		4H07007-18		4H07007-19		4H07007-20	
Date Sampled:			8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00	
Date Received:			8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22	
Parameter	MOHML Reportable Concentration S-1	Units	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit
Carbon Tetrachloride	5	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Chlorobenzene	1	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Chloroethane	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Chloroform	0.2	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Chloromethane	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
4-Chlorotoluene	--	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
2-Chlorotoluene	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
1,2-Dibromo-3-chloropropane (DBCP)	10	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Dibromochloromethane	0.005	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
1,2-Dibromoethane (EDB)	0.1	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Dibromomethane	500	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
1,2-Dichlorobenzene	9	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
1,3-Dichlorobenzene	3	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
1,4-Dichlorobenzene	0.7	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
1,1-Dichloroethane	0.4	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
1,2-Dichloroethane	0.1	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
1,2 Dichloroethene, Total	0.3	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
trans-1,2-Dichloroethene	1	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
cis-1,2-Dichloroethene	0.1	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
1,1-Dichloroethene	3	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
1,2-Dichloropropane	0.1	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
2,2-Dichloropropane	--	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
cis-1,3-Dichloropropene	0.01	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
trans-1,3-Dichloropropene	0.01	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
1,1-Dichloropropene	--	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
1,3-Dichloropropene (cis + trans)	0.01	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Diethyl ether	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
1,4-Dioxane	0.2	mg/kg	ND	0.129	--	--	ND	0.121	--	--	ND	0.121	--	--	ND	0.12
Ethylbenzene	40	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Hexachlorobutadiene	30	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
2-Hexanone	100	mg/kg	ND	0.129	--	--	ND	0.121	--	--	ND	0.121	--	--	ND	0.12
Isopropylbenzene	1000	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
p-Isopropyltoluene	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Methylene Chloride	0.1	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
4-Methyl-2-pentanone	0.4	mg/kg	ND	0.129	--	--	ND	0.121	--	--	ND	0.121	--	--	ND	0.12
Naphthalene	4	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
n-Propylbenzene	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Styrene	3	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
1,1,1,2-Tetrachloroethane	0.1	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Tetrachloroethene	1	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Tetrahydrofuran	500	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Toluene	30	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
1,2,4-Trichlorobenzene	2	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
1,2,3-Trichlorobenzene	--	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
1,1,2-Trichloroethane	0.1	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
1,1,1-Trichloroethane	30	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Trichloroethene	0.3	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
1,2,3-Trichloropropane	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
1,3,5-Trimethylbenzene	10	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
1,2,4-Trimethylbenzene	1000	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Vinyl Chloride	0.3	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
o-Xylene	see Total xylenes	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
m&p-Xylene	see Total xylenes	mg/kg	ND	0.013	--	--	ND	0.012	--	--	ND	0.012	--	--	ND	0.012
Total xylenes	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006

mg/kg = Milligrams per kilograms

ND=Not Detected

MOHML=Massachusetts oil and hazardous material list.

Bold = Exceeds Reportable Concentration.

TABLE 1
Soil Analytical Results
Cutler Elementary School

NETLAB Case Number: 4H07007			GP-7 (13-15')		GP-8 (5-10')		GP-8 (8-10')		GP-9 (5-10')		GP-9 (8-10')		GP-10 (1-6')		GP-10 (4-6')	
Lab Sample Number:			4H07007-14		4H07007-15		4H07007-16		4H07007-17		4H07007-18		4H07007-19		4H07007-20	
Date Sampled:			8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00	
Date Received:			8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22	
Parameter	MOHML Reportable Concentration S-1	Units	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit
1,1,2,2-Tetrachloroethane	0.005	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
tert-Amyl methyl ether	--	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
1,3-Dichloropropane	500	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Ethyl tert-butyl ether	--	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Diisopropyl ether	100	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Trichlorofluoromethane	1000	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Dichlorodifluoromethane	1000	mg/kg	ND	0.006	--	--	ND	0.006	--	--	ND	0.006	--	--	ND	0.006
Volatile Petroleum Hydrocarbons (MADEP-VPH)																
Benzene	2	mg/kg	ND	0.3	--	--	ND	0.3	--	--	ND	0.4	--	--	ND	0.4
Ethylbenzene	40	mg/kg	ND	0.3	--	--	ND	0.3	--	--	ND	0.4	--	--	ND	0.4
Methyl t-butyl ether (MTBE)	0.1	mg/kg	ND	0.06	--	--	ND	0.06	--	--	ND	0.07	--	--	ND	0.09
Naphthalene	4	mg/kg	ND	0.6	--	--	ND	0.6	--	--	ND	0.7	--	--	ND	0.9
Toluene	30	mg/kg	ND	0.3	--	--	ND	0.3	--	--	ND	0.4	--	--	ND	0.4
m&p-Xylene	see Total xylenes	mg/kg	ND	0.6	--	--	ND	0.6	--	--	ND	0.7	--	--	ND	0.9
o-Xylene	see Total xylenes	mg/kg	ND	0.6	--	--	ND	0.6	--	--	ND	0.7	--	--	ND	0.9
Total xylenes	100	mg/kg	ND	0.6	--	--	ND	0.6	--	--	ND	0.7	--	--	ND	0.9
C5-C8 Aliphatic Hydrocarbons	100	mg/kg	ND	13	--	--	ND	12.6	--	--	ND	14.9	--	--	ND	17.5
C9-C12 Aliphatic Hydrocarbons	1000	mg/kg	ND	16.2	--	--	ND	15.7	--	--	ND	18.6	--	--	ND	21.9
C9-C10 Aromatic Hydrocarbons	100	mg/kg	ND	16.2	--	--	ND	15.7	--	--	ND	18.6	--	--	ND	21.9

mg/kg = Milligrams per kilograms

ND=Not Detected

MOHML=Massachusetts oil and hazardous material list.

Bold = Exceeds Reportable Concentration.

TABLE 1
Soil Analytical Results
Cutler Elementary School

NETLAB Case Number: 4H07007			GP-11 (1-6')		GP-11 (1-6')		GP-12 (5-10')		GP-12 (8-10')		GP-13 (5-10')		GP-13 (8-10')	
Lab Sample Number:			4H07007-21		4H07007-21		4H07007-23		4H07007-24		4H07007-25		4H07007-26	
Date Sampled:			8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00	
Date Received:			8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22	
Parameter	MOHML Reportable Concentration S-1	Units	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit
Extractable Petroleum Hydrocarbons (MADEP-EPH)														
Naphthalene	4	mg/kg	ND	0.38	--	--	ND	0.35	--	--	ND	0.35	--	--
2-Methylnaphthalene	0.7	mg/kg	ND	0.38	--	--	ND	0.35	--	--	ND	0.35	--	--
Phenanthrene	10	mg/kg	ND	0.38	--	--	ND	0.35	--	--	ND	0.35	--	--
Acenaphthene	4	mg/kg	ND	0.38	--	--	ND	0.35	--	--	ND	0.35	--	--
Acenaphthylene	2	mg/kg	ND	0.38	--	--	ND	0.35	--	--	ND	0.35	--	--
Fluorene	1000	mg/kg	ND	0.38	--	--	ND	0.35	--	--	ND	0.35	--	--
Anthracene	1000	mg/kg	ND	0.38	--	--	ND	0.35	--	--	ND	0.35	--	--
Fluoranthene	1000	mg/kg	ND	0.38	--	--	ND	0.35	--	--	ND	0.35	--	--
Pyrene	1000	mg/kg	ND	0.38	--	--	ND	0.35	--	--	ND	0.35	--	--
Benzo(a)anthracene	20	mg/kg	ND	0.38	--	--	ND	0.35	--	--	ND	0.35	--	--
Chrysene	200	mg/kg	ND	0.38	--	--	ND	0.35	--	--	ND	0.35	--	--
Benzo(b)fluoranthene	20	mg/kg	ND	0.38	--	--	ND	0.35	--	--	ND	0.35	--	--
Benzo(k)fluoranthene	200	mg/kg	ND	0.38	--	--	ND	0.35	--	--	ND	0.35	--	--
Benzo(a)pyrene	2	mg/kg	ND	0.38	--	--	ND	0.35	--	--	ND	0.35	--	--
Indeno(1,2,3-cd)pyrene	20	mg/kg	ND	0.38	--	--	ND	0.35	--	--	ND	0.35	--	--
Dibenz(a,h)anthracene	2	mg/kg	ND	0.38	--	--	ND	0.35	--	--	ND	0.35	--	--
Benzo(g,h,i)perylene	1000	mg/kg	ND	0.38	--	--	ND	0.35	--	--	ND	0.35	--	--
C9-C18 Aliphatic Hydrocarbons	1000	mg/kg	ND	15.3	--	--	ND	14	--	--	ND	14.3	--	--
C19-C36 Aliphatic Hydrocarbons	3000	mg/kg	ND	15.3	--	--	ND	14	--	--	ND	14.3	--	--
C11-C22 Aromatic Hydrocarbons	1000	mg/kg	ND	7.65	--	--	ND	7.02	--	--	ND	7.17	--	--
Total Metals														
Antimony	20	mg/kg	ND	0.77	--	--	ND	0.7	--	--	ND	0.73	--	--
Arsenic	20	mg/kg	15.4	1.17	--	--	10.2	1.07	--	--	81.3	1.1	--	--
Barium	1000	mg/kg	67.7	0.39	--	--	21.4	0.35	--	--	24	0.36	--	--
Beryllium	100	mg/kg	ND	0.39	--	--	0.4	0.35	--	--	ND	0.36	--	--
Cadmium	80	mg/kg	ND	0.58	--	--	ND	0.53	--	--	ND	0.55	--	--
Chromium	100	mg/kg	23.4	0.58	--	--	16.8	0.53	--	--	13	0.55	--	--
Lead	200	mg/kg	8.29	0.58	--	--	7.46	0.53	--	--	8.24	0.55	--	--
Nickel	700	mg/kg	17.5	0.58	--	--	7.83	0.53	--	--	11.6	0.55	--	--
Selenium	400	mg/kg	ND	1.17	--	--	ND	1.07	--	--	ND	1.1	--	--
Silver	100	mg/kg	ND	1.17	--	--	ND	1.07	--	--	ND	1.1	--	--
Vanadium	500	mg/kg	35.8	0.39	--	--	27.9	0.35	--	--	18.3	0.36	--	--
Zinc	1000	mg/kg	62.6	2.3	--	--	49.4	2.1	--	--	40.3	2.2	--	--
Thallium	8	mg/kg	ND	0.39	--	--	ND	0.35	--	--	ND	0.36	--	--
Mercury	20	mg/kg	ND	0.098	--	--	ND	0.094	--	--	ND	0.094	--	--
Volatile Organic Compounds 8260C (5035-LL)														
Acetone	6	mg/kg	--	--	ND	0.114	--	--	ND	0.173	--	--	ND	0.107
Benzene	2	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Bromobenzene	100	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Bromochloromethane	--	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Bromodichloromethane	0.1	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Bromoform	0.1	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Bromomethane	0.5	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
2-Butanone	4	mg/kg	--	--	ND	0.114	--	--	ND	0.173	--	--	ND	0.107
tert-Butyl alcohol	100	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
sec-Butylbenzene	--	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
n-Butylbenzene	--	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
tert-Butylbenzene	100	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Methyl t-butyl ether (MTBE)	0.1	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Carbon Disulfide	100	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005

mg/kg = Milligrams per kilograms

ND=Not Detected

MOHML=Massachusetts oil and hazardous material list.

Bold = Exceeds Reportable Concentration.

TABLE 1
Soil Analytical Results
Cutler Elementary School

NETLAB Case Number: 4H07007			GP-11 (1-6')		GP-11 (1-6')		GP-12 (5-10')		GP-12 (8-10')		GP-13 (5-10')		GP-13 (8-10')	
Lab Sample Number:			4H07007-21		4H07007-21		4H07007-23		4H07007-24		4H07007-25		4H07007-26	
Date Sampled:			8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00	
Date Received:			8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22	
Parameter	MOHML Reportable Concentration S-1	Units	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit
Carbon Tetrachloride	5	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Chlorobenzene	1	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Chloroethane	100	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Chloroform	0.2	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Chloromethane	100	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
4-Chlorotoluene	--	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
2-Chlorotoluene	100	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
1,2-Dibromo-3-chloropropane (DBCP)	10	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Dibromochloromethane	0.005	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
1,2-Dibromoethane (EDB)	0.1	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Dibromomethane	500	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
1,2-Dichlorobenzene	9	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
1,3-Dichlorobenzene	3	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
1,4-Dichlorobenzene	0.7	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
1,1-Dichloroethane	0.4	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
1,2-Dichloroethane	0.1	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
1,2 Dichloroethene, Total	0.3	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
trans-1,2-Dichloroethene	1	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
cis-1,2-Dichloroethene	0.1	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
1,1-Dichloroethene	3	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
1,2-Dichloropropane	0.1	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
2,2-Dichloropropane	--	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
cis-1,3-Dichloropropene	0.01	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
trans-1,3-Dichloropropene	0.01	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
1,1-Dichloropropene	--	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
1,3-Dichloropropene (cis + trans)	0.01	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Diethyl ether	100	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
1,4-Dioxane	0.2	mg/kg	--	--	ND	0.114	--	--	ND	0.173	--	--	ND	0.107
Ethylbenzene	40	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Hexachlorobutadiene	30	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
2-Hexanone	100	mg/kg	--	--	ND	0.114	--	--	ND	0.173	--	--	ND	0.107
Isopropylbenzene	1000	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
p-Isopropyltoluene	100	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Methylene Chloride	0.1	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
4-Methyl-2-pentanone	0.4	mg/kg	--	--	ND	0.114	--	--	ND	0.173	--	--	ND	0.107
Naphthalene	4	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
n-Propylbenzene	100	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Styrene	3	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
1,1,1,2-Tetrachloroethane	0.1	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Tetrachloroethene	1	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Tetrahydrofuran	500	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Toluene	30	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
1,2,4-Trichlorobenzene	2	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
1,2,3-Trichlorobenzene	--	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
1,1,2-Trichloroethane	0.1	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
1,1,1-Trichloroethane	30	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Trichloroethene	0.3	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
1,2,3-Trichloropropane	100	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
1,3,5-Trimethylbenzene	10	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
1,2,4-Trimethylbenzene	1000	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Vinyl Chloride	0.3	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
o-Xylene	see Total xylenes	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
m&p-Xylene	see Total xylenes	mg/kg	--	--	ND	0.011	--	--	ND	0.017	--	--	ND	0.011
Total xylenes	100	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005

mg/kg = Milligrams per kilograms

ND=Not Detected

MOHML=Massachusetts oil and hazardous material list.

Bold = Exceeds Reportable Concentration.

TABLE 1
Soil Analytical Results
Cutler Elementary School

NETLAB Case Number: 4H07007			GP-11 (1-6')		GP-11 (1-6')		GP-12 (5-10')		GP-12 (8-10')		GP-13 (5-10')		GP-13 (8-10')	
Lab Sample Number:			4H07007-21		4H07007-21		4H07007-23		4H07007-24		4H07007-25		4H07007-26	
Date Sampled:			8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00	
Date Received:			8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22	
Parameter	MOHML Reportable Concentration S-1	Units	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit
1,1,2,2-Tetrachloroethane	0.005	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
tert-Amyl methyl ether	--	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
1,3-Dichloropropane	500	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Ethyl tert-butyl ether	--	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Diisopropyl ether	100	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Trichlorofluoromethane	1000	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Dichlorodifluoromethane	1000	mg/kg	--	--	ND	0.006	--	--	ND	0.009	--	--	ND	0.005
Volatile Petroleum Hydrocarbons (MADEP-VPH)														
Benzene	2	mg/kg	--	--	ND	0.3	--	--	ND	0.3	--	--	ND	0.3
Ethylbenzene	40	mg/kg	--	--	ND	0.3	--	--	ND	0.3	--	--	ND	0.3
Methyl t-butyl ether (MTBE)	0.1	mg/kg	--	--	ND	0.07	--	--	ND	0.06	--	--	ND	0.06
Naphthalene	4	mg/kg	--	--	ND	0.7	--	--	ND	0.6	--	--	ND	0.6
Toluene	30	mg/kg	--	--	ND	0.3	--	--	ND	0.3	--	--	ND	0.3
m&p-Xylene	see Total xylenes	mg/kg	--	--	ND	0.7	--	--	ND	0.6	--	--	ND	0.6
o-Xylene	see Total xylenes	mg/kg	--	--	ND	0.7	--	--	ND	0.6	--	--	ND	0.6
Total xylenes	100	mg/kg	--	--	ND	0.7	--	--	ND	0.6	--	--	ND	0.6
C5-C8 Aliphatic Hydrocarbons	100	mg/kg	--	--	ND	14	--	--	ND	12.8	--	--	ND	12.7
C9-C12 Aliphatic Hydrocarbons	1000	mg/kg	--	--	ND	17.5	--	--	ND	16	--	--	ND	15.8
C9-C10 Aromatic Hydrocarbons	100	mg/kg	--	--	ND	17.5	--	--	ND	16	--	--	ND	15.8

mg/kg = Milligrams per kilograms

ND=Not Detected

MOHML=Massachusetts oil and hazardous material list.

Bold = Exceeds Reportable Concentration.

TABLE 1
Soil Analytical Results
Cutler Elementary School

NETLAB Case Number: 4H07007			GP-14 (5-10')		GP-14 (8-10')		GP-15 (5-10')		GP-15 (8-10')	
Lab Sample Number:			4H07007-27		4H07007-28		4H07007-29		4H07007-30	
Date Sampled:			8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00	
Date Received:			8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22	
Parameter	MOHML Reportable Concentration S-1	Units	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit
Extractable Petroleum Hydrocarbons (MADEP-EPH)										
Naphthalene	4	mg/kg	ND	0.35	--	--	ND	0.34	--	--
2-Methylnaphthalene	0.7	mg/kg	ND	0.35	--	--	ND	0.34	--	--
Phenanthrene	10	mg/kg	ND	0.35	--	--	ND	0.34	--	--
Acenaphthene	4	mg/kg	ND	0.35	--	--	ND	0.34	--	--
Acenaphthylene	2	mg/kg	ND	0.35	--	--	ND	0.34	--	--
Fluorene	1000	mg/kg	ND	0.35	--	--	ND	0.34	--	--
Anthracene	1000	mg/kg	ND	0.35	--	--	ND	0.34	--	--
Fluoranthene	1000	mg/kg	ND	0.35	--	--	ND	0.34	--	--
Pyrene	1000	mg/kg	ND	0.35	--	--	ND	0.34	--	--
Benzo(a)anthracene	20	mg/kg	ND	0.35	--	--	ND	0.34	--	--
Chrysene	200	mg/kg	ND	0.35	--	--	ND	0.34	--	--
Benzo(b)fluoranthene	20	mg/kg	ND	0.35	--	--	ND	0.34	--	--
Benzo(k)fluoranthene	200	mg/kg	ND	0.35	--	--	ND	0.34	--	--
Benzo(a)pyrene	2	mg/kg	ND	0.35	--	--	ND	0.34	--	--
Indeno(1,2,3-cd)pyrene	20	mg/kg	ND	0.35	--	--	ND	0.34	--	--
Dibenz(a,h)anthracene	2	mg/kg	ND	0.35	--	--	ND	0.34	--	--
Benzo(g,h,i)perylene	1000	mg/kg	ND	0.35	--	--	ND	0.34	--	--
C9-C18 Aliphatic Hydrocarbons	1000	mg/kg	ND	13.9	--	--	ND	13.9	--	--
C19-C36 Aliphatic Hydrocarbons	3000	mg/kg	ND	13.9	--	--	ND	13.9	--	--
C11-C22 Aromatic Hydrocarbons	1000	mg/kg	ND	6.98	--	--	ND	6.96	--	--
Total Metals										
Antimony	20	mg/kg	ND	0.71	--	--	ND	0.77	--	--
Arsenic	20	mg/kg	18.7	1.07	--	--	13.2	1.17	--	--
Barium	1000	mg/kg	15	0.35	--	--	27.3	0.39	--	--
Beryllium	100	mg/kg	ND	0.35	--	--	ND	0.39	--	--
Cadmium	80	mg/kg	ND	0.53	--	--	ND	0.59	--	--
Chromium	100	mg/kg	8.61	0.53	--	--	43	0.59	--	--
Lead	200	mg/kg	4.6	0.53	--	--	10.8	0.59	--	--
Nickel	700	mg/kg	19.7	0.53	--	--	21.5	0.59	--	--
Selenium	400	mg/kg	ND	1.07	--	--	ND	1.17	--	--
Silver	100	mg/kg	ND	1.07	--	--	ND	1.17	--	--
Vanadium	500	mg/kg	12	0.35	--	--	44.8	0.39	--	--
Zinc	1000	mg/kg	32	2.1	--	--	58.1	2.3	--	--
Thallium	8	mg/kg	ND	0.35	--	--	ND	0.39	--	--
Mercury	20	mg/kg	ND	0.088	--	--	0.137	0.096	--	--
Volatile Organic Compounds 8260C (5035-LL)										
Acetone	6	mg/kg	--	--	ND	0.108	--	--	ND	0.114
Benzene	2	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Bromobenzene	100	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Bromochloromethane	--	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Bromodichloromethane	0.1	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Bromoform	0.1	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Bromomethane	0.5	mg/kg	--	--	ND	0.005	--	--	ND	0.006
2-Butanone	4	mg/kg	--	--	ND	0.108	--	--	ND	0.114
tert-Butyl alcohol	100	mg/kg	--	--	ND	0.005	--	--	ND	0.006
sec-Butylbenzene	--	mg/kg	--	--	ND	0.005	--	--	ND	0.006
n-Butylbenzene	--	mg/kg	--	--	ND	0.005	--	--	ND	0.006
tert-Butylbenzene	100	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Methyl t-butyl ether (MTBE)	0.1	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Carbon Disulfide	100	mg/kg	--	--	ND	0.005	--	--	ND	0.006

mg/kg = Milligrams per kilograms

ND=Not Detected

MOHML=Massachusetts oil and hazardous material list.

Bold = Exceeds Reportable Concentration.

TABLE 1
Soil Analytical Results
Cutler Elementary School

NETLAB Case Number: 4H07007			GP-14 (5-10')		GP-14 (8-10')		GP-15 (5-10')		GP-15 (8-10')	
Lab Sample Number:			4H07007-27		4H07007-28		4H07007-29		4H07007-30	
Date Sampled:			8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00	
Date Received:			8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22	
Parameter	MOHML Reportable Concentration S-1	Units	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit
Carbon Tetrachloride	5	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Chlorobenzene	1	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Chloroethane	100	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Chloroform	0.2	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Chloromethane	100	mg/kg	--	--	ND	0.005	--	--	ND	0.006
4-Chlorotoluene	--	mg/kg	--	--	ND	0.005	--	--	ND	0.006
2-Chlorotoluene	100	mg/kg	--	--	ND	0.005	--	--	ND	0.006
1,2-Dibromo-3-chloropropane (DBCP)	10	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Dibromochloromethane	0.005	mg/kg	--	--	ND	0.005	--	--	ND	0.006
1,2-Dibromoethane (EDB)	0.1	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Dibromomethane	500	mg/kg	--	--	ND	0.005	--	--	ND	0.006
1,2-Dichlorobenzene	9	mg/kg	--	--	ND	0.005	--	--	ND	0.006
1,3-Dichlorobenzene	3	mg/kg	--	--	ND	0.005	--	--	ND	0.006
1,4-Dichlorobenzene	0.7	mg/kg	--	--	ND	0.005	--	--	ND	0.006
1,1-Dichloroethane	0.4	mg/kg	--	--	ND	0.005	--	--	ND	0.006
1,2-Dichloroethane	0.1	mg/kg	--	--	ND	0.005	--	--	ND	0.006
1,2 Dichloroethene, Total	0.3	mg/kg	--	--	ND	0.005	--	--	ND	0.006
trans-1,2-Dichloroethene	1	mg/kg	--	--	ND	0.005	--	--	ND	0.006
cis-1,2-Dichloroethene	0.1	mg/kg	--	--	ND	0.005	--	--	ND	0.006
1,1-Dichloroethene	3	mg/kg	--	--	ND	0.005	--	--	ND	0.006
1,2-Dichloropropane	0.1	mg/kg	--	--	ND	0.005	--	--	ND	0.006
2,2-Dichloropropane	--	mg/kg	--	--	ND	0.005	--	--	ND	0.006
cis-1,3-Dichloropropene	0.01	mg/kg	--	--	ND	0.005	--	--	ND	0.006
trans-1,3-Dichloropropene	0.01	mg/kg	--	--	ND	0.005	--	--	ND	0.006
1,1-Dichloropropene	--	mg/kg	--	--	ND	0.005	--	--	ND	0.006
1,3-Dichloropropene (cis + trans)	0.01	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Diethyl ether	100	mg/kg	--	--	ND	0.005	--	--	ND	0.006
1,4-Dioxane	0.2	mg/kg	--	--	ND	0.108	--	--	ND	0.114
Ethylbenzene	40	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Hexachlorobutadiene	30	mg/kg	--	--	ND	0.005	--	--	ND	0.006
2-Hexanone	100	mg/kg	--	--	ND	0.108	--	--	ND	0.114
Isopropylbenzene	1000	mg/kg	--	--	ND	0.005	--	--	ND	0.006
p-Isopropyltoluene	100	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Methylene Chloride	0.1	mg/kg	--	--	ND	0.005	--	--	ND	0.006
4-Methyl-2-pentanone	0.4	mg/kg	--	--	ND	0.108	--	--	ND	0.114
Naphthalene	4	mg/kg	--	--	ND	0.005	--	--	ND	0.006
n-Propylbenzene	100	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Styrene	3	mg/kg	--	--	ND	0.005	--	--	ND	0.006
1,1,1,2-Tetrachloroethane	0.1	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Tetrachloroethene	1	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Tetrahydrofuran	500	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Toluene	30	mg/kg	--	--	ND	0.005	--	--	ND	0.006
1,2,4-Trichlorobenzene	2	mg/kg	--	--	ND	0.005	--	--	ND	0.006
1,2,3-Trichlorobenzene	--	mg/kg	--	--	ND	0.005	--	--	ND	0.006
1,1,2-Trichloroethane	0.1	mg/kg	--	--	ND	0.005	--	--	ND	0.006
1,1,1-Trichloroethane	30	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Trichloroethene	0.3	mg/kg	--	--	ND	0.005	--	--	ND	0.006
1,2,3-Trichloropropane	100	mg/kg	--	--	ND	0.005	--	--	ND	0.006
1,3,5-Trimethylbenzene	10	mg/kg	--	--	ND	0.005	--	--	ND	0.006
1,2,4-Trimethylbenzene	1000	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Vinyl Chloride	0.3	mg/kg	--	--	ND	0.005	--	--	ND	0.006
o-Xylene	see Total xylenes	mg/kg	--	--	ND	0.005	--	--	ND	0.006
m&p-Xylene	see Total xylenes	mg/kg	--	--	ND	0.011	--	--	ND	0.011
Total xylenes	100	mg/kg	--	--	ND	0.005	--	--	ND	0.006

mg/kg = Milligrams per kilograms

ND=Not Detected

MOHML=Massachusetts oil and hazardous material list.

Bold = Exceeds Reportable Concentration.

TABLE 1
Soil Analytical Results
Cutler Elementary School

NETLAB Case Number: 4H07007			GP-14 (5-10')		GP-14 (8-10')		GP-15 (5-10')		GP-15 (8-10')	
Lab Sample Number:			4H07007-27		4H07007-28		4H07007-29		4H07007-30	
Date Sampled:			8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00		8/5/2024 0:00	
Date Received:			8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22		8/7/2024 11:22	
Parameter	MOHML Reportable Concentration S-1	Units	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit	Sample Result	Reporting Limit
1,1,1,2,2-Tetrachloroethane	0.005	mg/kg	--	--	ND	0.005	--	--	ND	0.006
tert-Amyl methyl ether	--	mg/kg	--	--	ND	0.005	--	--	ND	0.006
1,3-Dichloropropane	500	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Ethyl tert-butyl ether	--	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Diisopropyl ether	100	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Trichlorofluoromethane	1000	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Dichlorodifluoromethane	1000	mg/kg	--	--	ND	0.005	--	--	ND	0.006
Volatile Petroleum Hydrocarbons (MADEP-VPH)										
Benzene	2	mg/kg	--	--	ND	0.3	--	--	ND	0.3
Ethylbenzene	40	mg/kg	--	--	ND	0.3	--	--	ND	0.3
Methyl t-butyl ether (MTBE)	0.1	mg/kg	--	--	ND	0.06	--	--	ND	0.06
Naphthalene	4	mg/kg	--	--	ND	0.6	--	--	ND	0.6
Toluene	30	mg/kg	--	--	ND	0.3	--	--	ND	0.3
m&p-Xylene	see Total xylenes	mg/kg	--	--	ND	0.6	--	--	ND	0.6
o-Xylene	see Total xylenes	mg/kg	--	--	ND	0.6	--	--	ND	0.6
Total xylenes	100	mg/kg	--	--	ND	0.6	--	--	ND	0.6
C5-C8 Aliphatic Hydrocarbons	100	mg/kg	--	--	ND	11.4	--	--	ND	11.9
C9-C12 Aliphatic Hydrocarbons	1000	mg/kg	--	--	ND	14.3	--	--	ND	14.8
C9-C10 Aromatic Hydrocarbons	100	mg/kg	--	--	ND	14.3	--	--	ND	14.8

mg/kg = Milligrams per kilograms

ND=Not Detected

MOHML=Massachusetts oil and hazardous material list.

Bold = Exceeds Reportable Concentration.

APPENDIX A

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 2100
Total Depth: 15 ft
Date Started: 8/5/2024
Casing ID:
Remarks: 6610 DT Geoprobe

Client: JCJ Architects
Location: Cutler Elementary
Completed: 8/6/2024
Ground El. N/A

BORING ID: GP-15
Logged By: BD
Contractor: Crawford
Sheet #: 1

Depth (Feet)	Sample					PID Hdspace (ppmv)	Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery				
0	S1		0'				brown loamy soil with grass and roots	
-1				55"	1		tan to brown/gray gravelly SAND, little medium sand, trace coarse sand; dry See Above	
-2					0.0			
-3					3			
-4					3			
-5					0.0			
-6			5'		5			
-7	S2		5'		5			
-8					0.0			
-9					7			
-10				60"	7			
-11					0.0			
-12					9			
-13					9			
-14					0.0			
-15			10'		10			
-16								
-17								
-18								
-19								
-20								
Groundwater Measurements							Summary	
Date		Time	Depth to Groundwater		Measuring Point	Overburden:	silty sand	
						Rock:	NA	
						Well Depth:	NA	
						Boring:	15'	

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 2100
Total Depth: 15 ft
Date Started: 8/5/2024
Casing ID:
Remarks: 6610 DT Geoprobe

Client:	JCJ Architects
Location:	Cutler Elementary
Completed:	8/6/2024
Ground El.	N/A

BORING ID:	GP-14
Logged By:	BD
Contractor:	Crawford
Sheet #:	1

Depth (Feet)	Sample				PID Hdspace (ppmv)	Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery			
0	S1		0'			brown loamy soil with grass and roots	
-1				50"	1		
					0.0		
-2					3		
-3					3		
					0.0		
-4							
			5'		5		
-5	S2		5'		5		
					0.0		
-6					7		
-7				60"	7	tan to brown medium to fine SAND, little gravel; dry	
					0.0		
-8					9		
-9					9		
					0.0		
-10							
			10'		10		
-11							
-12							
-13							
-14							
-15							
-16							
-17							
-18							
-19							
-20							
Groundwater Measurements						Summary	
Date		Time	Depth to Groundwater		Measuring Point	Overburden:	silty sand
						Rock:	NA
						Well Depth:	NA
						Boring:	15'

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 2100
 Total Depth: 15 ft
 Date Started: 8/5/2024
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: JCJ Architects
 Location: Cutler Elementary
 Completed: 8/6/2024
 Ground El. N/A

BORING ID: GP-13
 Logged By: BD
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample				PID Hdspace (ppmv)	Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery			
0	S1		0'			brown loamy soil with grass and roots	
-1				48"	1		
-2					0.0		
-3					3		
-3					3		
-4					0.0		
-4			5'		5		
-5	S2		5'		5		
-6					0.0		
-6					7		
-7				60"	7	tan to brown medium to fine SAND, little gravel; dry	
-8					0.0		
-8					9		
-9					9	tan to brown fine SAND, trace medium sand; dry	
-10					0.0		
-10			10'		10	Bottom of Exploration at 10 ft; No Refusal	
-11							
-12							
-13							
-14							
-15							
-16							
-17							
-18							
-19							
-20							
Groundwater Measurements						Summary	
Date		Time	Depth to Groundwater		Measuring Point	Overburden:	silty sand
						Rock:	NA
						Well Depth:	NA
						Boring:	15'

TEST BORING LOG

CDW Consultants, Inc.

Project No.:	<u>2100</u>
Total Depth:	<u>15 ft</u>
Date Started:	<u>8/5/2024</u>
Casing ID:	<u></u>
Remarks:	<u>6610 DT Geoprobe</u>

Client:	JCJ Architects
Location:	Cutler Elementary
Completed:	8/6/2024
Ground El.	N/A

BORING ID:	GP-12
Logged By:	BD
Contractor:	Crawford
Sheet #:	1

Depth (Feet)	Sample				PID Hdspace (ppmv)	Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery			
0	S1		0'			brown loamy soil with grass and roots	
-1				48"	1		
-2					0.0		
-3					3		
-4					3		
-5					0.0		
-6					5		
-5	S2		5'		5	tan to brown medium to fine SAND, little gravel; dry	
-6					0.0		
-7					7		
-8				60"	7		
-9					0.0		
-10					9		
-11					0.0		
-12					9		
-13					0.0		
-14					10		
-15							
-16							
-17							
-18							
-19							
-20							
						Bottom of Exploration at 10 ft; No Refusal	
Groundwater Measurements						Summary	
Date	Time	Depth to Groundwater		Measuring Point	Overburden:	silty sand	
					Rock:	NA	
					Well Depth:	NA	
					Boring:	15'	

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 2100
Total Depth: 15 ft
Date Started: 8/5/2024
Casing ID:
Remarks: 6610 DT Geoprobe

Client: JCJ Architects
Location: Cutler Elementary
Completed: 8/6/2024
Ground El. N/A

BORING ID: GP-11
Logged By: BD
Contractor: Crawford
Sheet #: 1

Depth (Feet)	Sample				PID Hdspace (ppmv)	Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery			
0	S1		0'			brown loamy soil with grass and roots	
-1				60"	1	tan medium to fine SAND, little gravel; dry	
-2					0.0		
-3					3		
-3					3	6" of black coarse sand and broken asphalt	
-4					0.0	brown fine SAND, little gravel with concrete tan to brown medium to fine SAND, with gravel; dry tan to brown medium to fine SAND, 4" broken rock with brick pieces tan to gray medium to fine SAND; little gravel; dry	
-4			5'		5		
-5	S2		5'		5		
-6					0.0		
-6					7		
-7				50"	7		
-8					0.0		
-8					9		
-9					9		
-10					0.0		
-10			10'		11		
-11	S3		10'		11	See Above (FILL)	
-12				60"	0.1		
-12					13	tan to orange fine to silty fine SAND; trace clay; dry to moist tan to brown silty fine SAND, with medium to fine sand seams; tip moist to wet	
-13					13		
-14					0.0		
-14			15'		15		
-15						Bottom of Exploration at 15 feet; No Refusal	
-16							
-17							
-18							
-19							
-20							
-20							
Groundwater Measurements						Summary	
Date	Time	Depth to Groundwater		Measuring Point	Overburden:	silty sand	
					Rock:	NA	
					Well Depth:	NA	
					Boring:	15'	

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 2100
 Total Depth: 10 ft
 Date Started: 8/5/2024
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: JCJ Architects
 Location: Cutler Elementary
 Completed: 8/6/2024
 Ground El. N/A

BORING ID: GP-10
 Logged By: BD
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample				PID Hdspace (ppmv)	Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery			
0	S1		0'			brown loamy soil with grass and roots	
-1				55"	1		
-2					0.0		
-3					3		
-4					3		
-5					0.0		
-6			5'		5		
-7	S2		5'		5		
-8					0.0		
-9					7		
-10				60"	7		
-11					0.0		
-12					9		
-13					9		
-14					0.0		
-15			10'		10		
-16							
-17							
-18							
-19							
-20							
Groundwater Measurements						Summary	
Date		Time	Depth to Groundwater		Measuring Point	Overburden: silty sand	
						Rock: NA	
						Well Depth: NA	
						Boring: 10'	

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 2100
 Total Depth: 15 ft
 Date Started: 8/5/2024
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: JCJ Architects
 Location: Cutler Elementary
 Completed: 8/6/2024
 Ground El. N/A

BORING ID: GP-9
 Logged By: BD
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample				PID Hdspace (ppmv)	Sample Description	Well Diagram	
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery				
0	S1		0'			asphalt and gray gravel base		
-1				55"	1	tan to brown/orange fine SAND, little medium sand, trace silt; dry		
-2					0.0			
-3					3	tan to orange fine SAND, little coarse sand, trace silt; dry		
-4					0.0			
-5			5'		5			
-6	S2		5'		5			See Above
-7					0.0			
-8					7			
-9				60"	7			tan to brown fine SAND, trace medium sand; dry
-10					0.0			
-11			10'		11			
-12	S3		10'		11			
-13					0.0			
-14					13	tan to orange fine SAND;dry		
-15					13			
-16					0.0	tan to brown sandy SILT, trace clay		
-17			15'		15			
-18						brown SILT with organics (6")		
-19								
-20						Bottom of Exploration at 15 ft; No Refusal		
Groundwater Measurements						Summary		
Date		Time	Depth to Groundwater		Measuring Point	Overburden: silty sand		
						Rock: NA		
						Well Depth: NA		
						Boring: 15'		

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 2100
 Total Depth: 15 ft
 Date Started: 8/5/2024
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: JCJ Architects
 Location: Cutler Elementary
 Completed: 8/6/2024
 Ground El. N/A

BORING ID: GP-8
 Logged By: BD
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample					PID Hdspace (ppmv)	Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery				
0	S1		0'				asphalt and gray gravel base	
-1				60"	1		tan to brown/orange fine SAND, little medium sand, trace silt; dry	
-2					0.0			
-3					3			
-4					3			
-5					0.0			
-6			5'		5			
-7	S2		5'		5			
-8					0.0			
-9					7			
-10				60"	7			
-11					0.0			
-12					9			
-13					9			
-14					0.0			
-15			10'		11			
-16	S3		10'		11			
-17					0.0			
-18					13			
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TEST BORING LOG

CDW Consultants, Inc.

Project No.: 2100
 Total Depth: 15 ft
 Date Started: 8/5/2024
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: JCJ Architects
 Location: Cutler Elementary
 Completed: 8/6/2024
 Ground El. N/A

BORING ID: GP-7
 Logged By: BD
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample				PID Hdspace (ppmv)	Sample Description	Well Diagram	
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery				
0	S1		0'			brown loamy soil with grass and roots		
-1				60"	1	tan to brown/orange fine SAND, little medium sand, trace silt; dry		
-2					0.0			
-3					3	tan to orange fine SAND, little coarse sand, trace silt; dry		
-4					3			
-5			5'		0.0			
-6	S2		5'		5			
-7					5			See Above
-8					0.0			
-9					7			See Above
-10				50"	7			
-11					0.0			tan to brown fine SAND, trace medium sand; dry
-12					9			
-13					9			Bottom of Exploration at 10 ft; No Refusal
-14					0.0			
-15			10'		10			
-16								
-17								
-18								
-19								
-20								
Groundwater Measurements						Summary		
Date		Time	Depth to Groundwater		Measuring Point	Overburden: silty sand		
						Rock: NA		
						Well Depth: NA		
						Boring: 15'		

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 2100
 Total Depth: 15 ft
 Date Started: 8/5/2024
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: JCJ Architects
 Location: Cutler Elementary
 Completed: 8/6/2024
 Ground El. N/A

BORING ID: GP-6
 Logged By: BD
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample					PID Hdspace (ppmv)	Sample Description	Well Diagram	
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery					
0	S1		0'				brown loamy soil with grass and roots		
-1				48"	1		tan to brown/orange fine SAND, little medium sand, trace silt; dry		
-2					0.0				
-3					3		tan to orange fine SAND, little coarse sand, trace silt; dry		
-4					0.0				
-5			5'		5				
-6	S2		5'		5				See Above
-7					0.0				
-8					7				See Above
-9				60"	7				
-10					0.0				tan to brown fine SAND, trace medium sand; dry
-11					9				
-12					9				Bottom of Exploration at 10 ft; No Refusal
-13					0.0				
-14			10'		10				
-15									
-16									
-17									
-18									
-19									
-20									
Groundwater Measurements							Summary		
Date	Time	Depth to Groundwater		Measuring Point	Overburden:	silty sand			
					Rock:	NA			
					Well Depth:	NA			
					Boring:	15'			

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 2100
Total Depth: 10 ft
Date Started: 8/5/2024
Casing ID:
Remarks: 6610 DT Geoprobe

Client: JCJ Architects
Location: Cutler Elementary
Completed: 8/6/2024
Ground El. N/A

BORING ID: GP-5
Logged By: BD
Contractor: Crawford
Sheet #: 1

Depth (Feet)	Sample				PID Hdspace (ppmv)	Sample Description	Well Diagram	
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery				
0	S1		0'			brown loamy soil with grass and roots		
-1				55"	1	tan fine to silty fine SAND, trace medium sand; dry		
-2					0.0			
-3					3	tan medium to coarse SAND, little medium sand, trace silt and gravel; dry		
-4					0.0			
-5			5'		5			
-6	S2		5'		5			tan to orange medium to fine SAND, little gravel, trace silt; dry
-7					0.0			
-8					7			
-9				60"	7	tan to yellowish orange sandy SILT, little fine sand, trace clay		
-10					0.0			
-11			10'		10			brownish clayey SILT (bottom 6")
-12								
-13						Bottom of Exploration at 10 ft; No Refusal		
-14								
-15								
-16								
-17								
-18								
-19								
-20								

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 2100
 Total Depth: 10 ft
 Date Started: 8/5/2024
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: JCJ Architects
 Location: Cutler Elementary
 Completed: 8/6/2024
 Ground El. N/A

BORING ID: GP-4
 Logged By: BD
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample					PID Hdspace (ppmv)	Sample Description	Well Diagram	
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery					
0	S1		0'				brown loamy soil with grass and roots		
-1				55"	1		tan fine to silty fine SAND, trace medium sand; dry		
-2					0.0				
-3					3		tan medium to coarse SAND, little medium sand, trace silt and gravel; dry		
-4					0.0				
-5	S2		5'		5				
-6					0.0				tan to brown medium to fine SAND, trace coarse sand with gravel; dry
-7				60"	7				
-8					0.0				tan to yellowish orange sandy SILT, little fine sand, trace clay
-9					9				
-10					0.0				
-11			10'		10		brownish clayey SILT (bottom 6")		
-12							Bottom of Exploration at 10 ft; No Refusal		
-13									
-14									
-15									
-16									
-17									
-18									
-19									
-20									
Groundwater Measurements							Summary		
Date		Time	Depth to Groundwater		Measuring Point	Overburden:	silty sand		
						Rock:	NA		
						Well Depth:	NA		
						Boring:	10'		

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 2100
 Total Depth: 10 ft
 Date Started: 8/5/2024
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: JCJ Architects
 Location: Cutler Elementary
 Completed: 8/6/2024
 Ground El. N/A

BORING ID: GP-3
 Logged By: BD
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample				PID Hdspace (ppmv)	Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery			
0	S1		0'			brown loamy soil with grass and roots	
-1				55"	1		
-2					0.0	tan to orange medium to fine SAND, trace coarse sand, with gravel pieces; dry	
-3					3		
-4					3		
-5					0.0		
-6			5'		5		
-7	S2		5'		5		
-8					0.0		
-9					7		
-10				60"	7		
-11					0.0		
-12					9		
-13					9	tan to brown sandy SILT, trace fine sand and clay; moist	
-14					0.0		
-15			10'		10	tan clayey SILT (bottom 6")	
-16							
-17						Bottom of Exploration at 10 ft; No Refusal	
-18							
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TEST BORING LOG

CDW Consultants, Inc.

Project No.: 2100
 Total Depth: 10 ft
 Date Started: 8/6/2024
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: JCJ Architects
 Location: Cutler Elementary
 Completed: 8/6/2024
 Ground El. N/A

BORING ID: GP-2
 Logged By: BD
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample				PID Hdspace (ppmv)	Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery			
0	S1		0'			brown loamy soil with grass and roots	
-1				55"	1		
-2					0.0		
-3					3		
-4					3		
-5					0.0		
-6			5'		5		
-7	S2		5'		5		
-8					0.0		
-9					7		
-10				60"	7		
-11					0.0		
-12					9		
-13					9		
-14					0.0		
-15			10'		10		
-16							
-17							
-18							
-19							
-20							
Groundwater Measurements						Summary	
Date		Time	Depth to Groundwater		Measuring Point	Overburden: silty sand	
						Rock: NA	
						Well Depth: NA	
						Boring: 10'	

TEST BORING LOG

CDW Consultants, Inc.

Project No.: 2100
 Total Depth: 10 ft
 Date Started: 8/5/2024
 Casing ID:
 Remarks: 6610 DT Geoprobe

Client: JCJ Architects
 Location: Cutler Elementary
 Completed: 8/6/2024
 Ground El. N/A

BORING ID: GP-1
 Logged By: BD
 Contractor: Crawford
 Sheet #: 1

Depth (Feet)	Sample					PID Hdspace (ppmv)	Sample Description	Well Diagram
	Type & Num.	Blows per 6 Inches	Depth Range	Recovery				
0	S1		0'				brown loamy soil with grass and roots	
-1				55"	1		tan fine to silty fine SAND, trace medium sand; dry	
-2					0.0			
					3			
-3					3		tan medium to coarse SAND, little medium sand, trace silt and gravel; dry	
					0.0			
-4			5'		5			
-5	S2		5'		5		See Above	
					0.0			
-6					7			
-7				60"	7		4" gravel layer	
					0.0		tan to yellowish orange sandy SILT, little fine sand, trace clay	
-8					9			
-9					9			
					0.0		tan clayey SILT (bottom 6")	
-10			10'		10			
-11								
							Bottom of Exploration at 10 ft; No Refusal	
-12								
-13								
-14								
-15								
-16								
-17								
-18								
-19								
-20								
Groundwater Measurements							Summary	
Date	Time	Depth to Groundwater		Measuring Point		Overburden:	silty sand	
						Rock:	NA	
						Well Depth:	NA	
						Boring:	10'	

APPENDIX B



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

REPORT OF ANALYTICAL RESULTS

NETLAB Work Order Number: 4H07007
Client Project: 2100.00 - Cutler Elementary

Report Date: 19-August-2024

Prepared for:

Alan Sundquist
CDW Consultants
4 California Drive, Suite 301
Framingham, MA 01701

Mike McCallum, Laboratory Director
New England Testing Laboratory, Inc.
59 Greenhill Street
West Warwick, RI 02893
mike.mccallum@newenglandtesting.com

Samples Submitted :

The samples listed below were submitted to New England Testing Laboratory on 08/07/24. 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 4H07007. Custody records are included in this report.

Lab ID	Sample	Matrix	Date Sampled	Date Received
4H07007-01	GP-1 (0-5')	Soil	08/05/2024	08/07/2024
4H07007-02	GP-1 (4-5')	Soil	08/05/2024	08/07/2024
4H07007-03	GP-2 (0-5')	Soil	08/05/2024	08/07/2024
4H07007-04	GP-2 (4-5')	Soil	08/05/2024	08/07/2024
4H07007-05	GP-3 (1-6')	Soil	08/05/2024	08/07/2024
4H07007-06	GP-3 (5-6')	Soil	08/05/2024	08/07/2024
4H07007-07	GP-4 (1-6')	Soil	08/05/2024	08/07/2024
4H07007-08	GP-4 (5-6')	Soil	08/05/2024	08/07/2024
4H07007-09	GP-5 (1-6')	Soil	08/05/2024	08/07/2024
4H07007-10	GP-5 (5-6')	Soil	08/05/2024	08/07/2024
4H07007-11	GP-6 (10-15')	Soil	08/05/2024	08/07/2024
4H07007-12	GP-6 (13-15')	Soil	08/05/2024	08/07/2024
4H07007-13	GP-7 (10-15')	Soil	08/05/2024	08/07/2024
4H07007-14	GP-7 (13-15')	Soil	08/05/2024	08/07/2024
4H07007-15	GP-8 (5-10')	Soil	08/05/2024	08/07/2024
4H07007-16	GP-8 (8-10')	Soil	08/05/2024	08/07/2024
4H07007-17	GP-9 (5-10')	Soil	08/05/2024	08/07/2024
4H07007-18	GP-9 (8-10')	Soil	08/05/2024	08/07/2024
4H07007-19	GP-10 (1-6')	Soil	08/05/2024	08/07/2024
4H07007-20	GP-10 (4-6')	Soil	08/05/2024	08/07/2024
4H07007-21	GP-11 (1-6')	Soil	08/05/2024	08/07/2024
4H07007-22	GP-11 (4-6')	Soil	08/05/2024	08/07/2024
4H07007-23	GP-12 (5-10')	Soil	08/05/2024	08/07/2024
4H07007-24	GP-12 (8-10')	Soil	08/05/2024	08/07/2024
4H07007-25	GP-13 (5-10')	Soil	08/05/2024	08/07/2024
4H07007-26	GP-13 (8-10')	Soil	08/05/2024	08/07/2024
4H07007-27	GP-14 (5-10')	Soil	08/05/2024	08/07/2024
4H07007-28	GP-14 (8-10')	Soil	08/05/2024	08/07/2024
4H07007-29	GP-15 (5-10')	Soil	08/05/2024	08/07/2024
4H07007-30	GP-15 (8-10')	Soil	08/05/2024	08/07/2024

Request for Analysis

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

GP-1 (0-5') (Lab Number: 4H07007-01)

	<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
Mercury	EPA 7471B
Nickel	EPA 6010C
Selenium	EPA 6010C
Silver	EPA 6010C
Thallium	EPA 6010C
Vanadium	EPA 6010C
Zinc	EPA 6010C

GP-1 (4-5') (Lab Number: 4H07007-02)

	<u>Method</u>
MADEP VPH	MADEP VPH
Volatile Organic Compounds	EPA 8260D

GP-10 (1-6') (Lab Number: 4H07007-19)

	<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
Mercury	EPA 7471B
Nickel	EPA 6010C
Selenium	EPA 6010C
Silver	EPA 6010C
Thallium	EPA 6010C
Vanadium	EPA 6010C
Zinc	EPA 6010C

GP-10 (4-6') (Lab Number: 4H07007-20)

	<u>Method</u>
MADEP VPH	MADEP VPH
Volatile Organic Compounds	EPA 8260D

GP-11 (1-6') (Lab Number: 4H07007-21)

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

Request for Analysis (continued)

GP-11 (1-6') (Lab Number: 4H07007-21) (continued)

Barium
Beryllium
Cadmium
Chromium
Lead
MADEP EPH
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc

Method

EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
MADEP EPH
EPA 7471B
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C

GP-11 (4-6') (Lab Number: 4H07007-22)

MADEP VPH
Volatile Organic Compounds

Method

MADEP VPH
EPA 8260D

GP-12 (5-10') (Lab Number: 4H07007-23)

Antimony
Arsenic
Barium
Beryllium
Cadmium
Chromium
Lead
MADEP EPH
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc

Method

EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
MADEP EPH
EPA 7471B
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C

GP-12 (8-10') (Lab Number: 4H07007-24)

MADEP VPH
Volatile Organic Compounds

Method

MADEP VPH
EPA 8260D

Request for Analysis (continued)

GP-13 (5-10') (Lab Number: 4H07007-25)

Antimony
Arsenic
Barium
Beryllium
Cadmium
Chromium
Lead
MADEP EPH
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc

Method

EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
MADEP EPH
EPA 7471B
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C

GP-13 (8-10') (Lab Number: 4H07007-26)

MADEP VPH
Volatile Organic Compounds

Method

MADEP VPH
EPA 8260D

GP-14 (5-10') (Lab Number: 4H07007-27)

Antimony
Arsenic
Barium
Beryllium
Cadmium
Chromium
Lead
MADEP EPH
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc

Method

EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
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EPA 6010C
MADEP EPH
EPA 7471B
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C

GP-14 (8-10') (Lab Number: 4H07007-28)

MADEP VPH
Volatile Organic Compounds

Method

MADEP VPH
EPA 8260D

Request for Analysis (continued)

GP-15 (5-10') (Lab Number: 4H07007-29)

Antimony
Arsenic
Barium
Beryllium
Cadmium
Chromium
Lead
MADEP EPH
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc

Method

EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
MADEP EPH
EPA 7471B
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C

GP-15 (8-10') (Lab Number: 4H07007-30)

MADEP VPH
Volatile Organic Compounds

Method

MADEP VPH
EPA 8260D

GP-2 (0-5') (Lab Number: 4H07007-03)

Antimony
Arsenic
Barium
Beryllium
Cadmium
Chromium
Lead
MADEP EPH
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc

Method

EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
MADEP EPH
EPA 7471B
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C

GP-2 (4-5') (Lab Number: 4H07007-04)

MADEP VPH
Volatile Organic Compounds

Method

MADEP VPH
EPA 8260D

Request for Analysis (continued)

GP-3 (1-6') (Lab Number: 4H07007-05)

Antimony
Arsenic
Barium
Beryllium
Cadmium
Chromium
Lead
MADEP EPH
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc

Method

EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
MADEP EPH
EPA 7471B
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C

GP-3 (5-6') (Lab Number: 4H07007-06)

MADEP VPH
Volatile Organic Compounds

Method

MADEP VPH
EPA 8260D

GP-4 (1-6') (Lab Number: 4H07007-07)

Antimony
Arsenic
Barium
Beryllium
Cadmium
Chromium
Lead
MADEP EPH
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc

Method

EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
MADEP EPH
EPA 7471B
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C

GP-4 (5-6') (Lab Number: 4H07007-08)

MADEP VPH
Volatile Organic Compounds

Method

MADEP VPH
EPA 8260D

Request for Analysis (continued)

GP-5 (1-6') (Lab Number: 4H07007-09)

Antimony
Arsenic
Barium
Beryllium
Cadmium
Chromium
Lead
MADEP EPH
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc

Method

EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
MADEP EPH
EPA 7471B
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C

GP-5 (5-6') (Lab Number: 4H07007-10)

MADEP VPH
Volatile Organic Compounds

Method

MADEP VPH
EPA 8260D

GP-6 (10-15') (Lab Number: 4H07007-11)

Antimony
Arsenic
Barium
Beryllium
Cadmium
Chromium
Lead
MADEP EPH
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc

Method

EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
MADEP EPH
EPA 7471B
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C

GP-6 (13-15') (Lab Number: 4H07007-12)

MADEP VPH
Volatile Organic Compounds

Method

MADEP VPH
EPA 8260D

Request for Analysis (continued)

GP-7 (10-15') (Lab Number: 4H07007-13)

Antimony
Arsenic
Barium
Beryllium
Cadmium
Chromium
Lead
MADEP EPH
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc

Method

EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
MADEP EPH
EPA 7471B
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C

GP-7 (13-15') (Lab Number: 4H07007-14)

MADEP VPH
Volatile Organic Compounds

Method

MADEP VPH
EPA 8260D

GP-8 (5-10') (Lab Number: 4H07007-15)

Antimony
Arsenic
Barium
Beryllium
Cadmium
Chromium
Lead
MADEP EPH
Mercury
Nickel
Selenium
Silver
Thallium
Vanadium
Zinc

Method

EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
MADEP EPH
EPA 7471B
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C
EPA 6010C

GP-8 (8-10') (Lab Number: 4H07007-16)

MADEP VPH
Volatile Organic Compounds

Method

MADEP VPH
EPA 8260D

Request for Analysis (continued)

GP-9 (5-10') (Lab Number: 4H07007-17)

	<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
Mercury	EPA 7471B
Nickel	EPA 6010C
Selenium	EPA 6010C
Silver	EPA 6010C
Thallium	EPA 6010C
Vanadium	EPA 6010C
Zinc	EPA 6010C

GP-9 (8-10') (Lab Number: 4H07007-18)

	<u>Method</u>
MADEP VPH	MADEP VPH
Volatile Organic Compounds	EPA 8260D

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

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

Case Narrative

Sample Receipt:

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

Exceptions: None

Analysis:

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

Exceptions: None

Results: Total Metals**Sample: GP-1 (0-5')****Lab Number: 4H07007-01 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Antimony	ND		0.86	mg/kg	08/08/24	08/13/24
Arsenic	13.9		1.30	mg/kg	08/08/24	08/13/24
Barium	26.7		0.43	mg/kg	08/08/24	08/13/24
Beryllium	ND		0.43	mg/kg	08/08/24	08/13/24
Cadmium	ND		0.65	mg/kg	08/08/24	08/13/24
Chromium	23.5		0.65	mg/kg	08/08/24	08/13/24
Lead	14.2		0.65	mg/kg	08/08/24	08/13/24
Mercury	ND		0.096	mg/kg	08/16/24	08/16/24
Nickel	15.0		0.65	mg/kg	08/08/24	08/13/24
Selenium	ND		1.30	mg/kg	08/08/24	08/13/24
Silver	ND		1.30	mg/kg	08/08/24	08/13/24
Vanadium	31.6		0.43	mg/kg	08/08/24	08/13/24
Zinc	75.1		2.6	mg/kg	08/08/24	08/13/24
Thallium	ND		0.43	mg/kg	08/08/24	08/13/24

Results: Total Metals**Sample: GP-2 (0-5')****Lab Number: 4H07007-03 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Antimony	ND		0.89	mg/kg	08/08/24	08/13/24
Arsenic	13.8		1.35	mg/kg	08/08/24	08/13/24
Barium	25.2		0.45	mg/kg	08/08/24	08/13/24
Beryllium	ND		0.45	mg/kg	08/08/24	08/13/24
Cadmium	ND		0.68	mg/kg	08/08/24	08/13/24
Chromium	18.8		0.68	mg/kg	08/08/24	08/13/24
Lead	12.7		0.68	mg/kg	08/08/24	08/13/24
Mercury	ND		0.113	mg/kg	08/16/24	08/16/24
Nickel	13.5		0.68	mg/kg	08/08/24	08/13/24
Selenium	ND		1.35	mg/kg	08/08/24	08/13/24
Silver	ND		1.35	mg/kg	08/08/24	08/13/24
Vanadium	28.1		0.45	mg/kg	08/08/24	08/13/24
Zinc	73.0		2.7	mg/kg	08/08/24	08/13/24
Thallium	ND		0.45	mg/kg	08/08/24	08/13/24

Results: Total Metals**Sample: GP-3 (1-6')****Lab Number: 4H07007-05 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Antimony	ND		0.81	mg/kg	08/08/24	08/13/24
Arsenic	9.72		1.23	mg/kg	08/08/24	08/13/24
Barium	26.2		0.41	mg/kg	08/08/24	08/13/24
Beryllium	ND		0.41	mg/kg	08/08/24	08/13/24
Cadmium	ND		0.62	mg/kg	08/08/24	08/13/24
Chromium	17.4		0.62	mg/kg	08/08/24	08/13/24
Lead	11.9		0.62	mg/kg	08/08/24	08/13/24
Mercury	ND		0.091	mg/kg	08/16/24	08/16/24
Nickel	11.0		0.62	mg/kg	08/08/24	08/13/24
Selenium	ND		1.23	mg/kg	08/08/24	08/13/24
Silver	ND		1.23	mg/kg	08/08/24	08/13/24
Vanadium	30.0		0.41	mg/kg	08/08/24	08/13/24
Zinc	53.3		2.5	mg/kg	08/08/24	08/13/24
Thallium	ND		0.41	mg/kg	08/08/24	08/13/24

Results: Total Metals**Sample: GP-4 (1-6')****Lab Number: 4H07007-07 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Antimony	ND		0.72	mg/kg	08/08/24	08/13/24
Arsenic	18.5		1.09	mg/kg	08/08/24	08/13/24
Barium	28.8		0.36	mg/kg	08/08/24	08/13/24
Beryllium	ND		0.36	mg/kg	08/08/24	08/13/24
Cadmium	ND		0.54	mg/kg	08/08/24	08/13/24
Chromium	30.9		0.54	mg/kg	08/08/24	08/13/24
Lead	15.5		0.54	mg/kg	08/08/24	08/13/24
Mercury	ND		0.092	mg/kg	08/16/24	08/16/24
Nickel	21.4		0.54	mg/kg	08/08/24	08/13/24
Selenium	ND		1.09	mg/kg	08/08/24	08/13/24
Silver	ND		1.09	mg/kg	08/08/24	08/13/24
Vanadium	38.8		0.36	mg/kg	08/08/24	08/13/24
Zinc	72.6		2.2	mg/kg	08/08/24	08/13/24
Thallium	ND		0.36	mg/kg	08/08/24	08/13/24

Results: Total Metals**Sample: GP-5 (1-6')****Lab Number: 4H07007-09 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Antimony	ND		0.86	mg/kg	08/08/24	08/13/24
Arsenic	25.8		1.31	mg/kg	08/08/24	08/13/24
Barium	28.1		0.43	mg/kg	08/08/24	08/13/24
Beryllium	ND		0.43	mg/kg	08/08/24	08/13/24
Cadmium	ND		0.66	mg/kg	08/08/24	08/13/24
Chromium	15.7		0.66	mg/kg	08/08/24	08/13/24
Lead	22.7		0.66	mg/kg	08/08/24	08/13/24
Mercury	ND		0.099	mg/kg	08/16/24	08/16/24
Nickel	18.0		0.66	mg/kg	08/08/24	08/13/24
Selenium	ND		1.31	mg/kg	08/08/24	08/13/24
Silver	ND		1.31	mg/kg	08/08/24	08/13/24
Vanadium	30.6		0.43	mg/kg	08/08/24	08/13/24
Zinc	77.9		2.6	mg/kg	08/08/24	08/13/24
Thallium	ND		0.43	mg/kg	08/08/24	08/13/24

Results: Total Metals

Sample: GP-6 (10-15')
Lab Number: 4H07007-11 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Antimony	ND		0.89	mg/kg	08/08/24	08/13/24
Arsenic	12.6		1.34	mg/kg	08/08/24	08/13/24
Barium	32.4		0.44	mg/kg	08/08/24	08/13/24
Beryllium	ND		0.44	mg/kg	08/08/24	08/13/24
Cadmium	ND		0.67	mg/kg	08/08/24	08/13/24
Chromium	14.7		0.67	mg/kg	08/08/24	08/13/24
Lead	14.5		0.67	mg/kg	08/08/24	08/13/24
Mercury	ND		0.100	mg/kg	08/16/24	08/16/24
Nickel	9.97		0.67	mg/kg	08/08/24	08/13/24
Selenium	ND		1.34	mg/kg	08/08/24	08/13/24
Silver	ND		1.34	mg/kg	08/08/24	08/13/24
Vanadium	18.9		0.44	mg/kg	08/08/24	08/13/24
Zinc	36.4		2.7	mg/kg	08/08/24	08/13/24
Thallium	ND		0.44	mg/kg	08/08/24	08/13/24

Results: Total Metals**Sample: GP-7 (10-15')****Lab Number: 4H07007-13 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Antimony	ND		0.97	mg/kg	08/08/24	08/13/24
Arsenic	46.4		1.47	mg/kg	08/08/24	08/13/24
Barium	46.3		0.49	mg/kg	08/08/24	08/13/24
Beryllium	ND		0.49	mg/kg	08/08/24	08/13/24
Cadmium	ND		0.74	mg/kg	08/08/24	08/13/24
Chromium	24.3		0.74	mg/kg	08/08/24	08/13/24
Lead	9.49		0.74	mg/kg	08/08/24	08/13/24
Mercury	ND		0.104	mg/kg	08/16/24	08/16/24
Nickel	24.0		0.74	mg/kg	08/08/24	08/13/24
Selenium	ND		1.47	mg/kg	08/08/24	08/13/24
Silver	ND		1.47	mg/kg	08/08/24	08/13/24
Vanadium	36.0		0.49	mg/kg	08/08/24	08/13/24
Zinc	50.1		2.9	mg/kg	08/08/24	08/13/24
Thallium	ND		0.49	mg/kg	08/08/24	08/13/24

Results: Total Metals**Sample: GP-8 (5-10')****Lab Number: 4H07007-15 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Antimony	ND		0.76	mg/kg	08/08/24	08/13/24
Arsenic	12.0		1.15	mg/kg	08/08/24	08/13/24
Barium	16.3		0.38	mg/kg	08/08/24	08/13/24
Beryllium	ND		0.38	mg/kg	08/08/24	08/13/24
Cadmium	ND		0.58	mg/kg	08/08/24	08/13/24
Chromium	6.85		0.58	mg/kg	08/08/24	08/13/24
Lead	3.98		0.58	mg/kg	08/08/24	08/13/24
Mercury	ND		0.104	mg/kg	08/16/24	08/16/24
Nickel	6.84		0.58	mg/kg	08/08/24	08/13/24
Selenium	ND		1.15	mg/kg	08/08/24	08/13/24
Silver	ND		1.15	mg/kg	08/08/24	08/13/24
Vanadium	9.21		0.38	mg/kg	08/08/24	08/13/24
Zinc	21.1		2.3	mg/kg	08/08/24	08/13/24
Thallium	ND		0.38	mg/kg	08/08/24	08/13/24

Results: Total Metals**Sample: GP-9 (5-10')****Lab Number: 4H07007-17 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Antimony	ND		0.86	mg/kg	08/08/24	08/13/24
Arsenic	15.8		1.31	mg/kg	08/08/24	08/13/24
Barium	70.6		0.43	mg/kg	08/08/24	08/13/24
Beryllium	ND		0.43	mg/kg	08/08/24	08/13/24
Cadmium	ND		0.65	mg/kg	08/08/24	08/13/24
Chromium	32.3		0.65	mg/kg	08/08/24	08/13/24
Lead	10.5		0.65	mg/kg	08/08/24	08/13/24
Mercury	ND		0.108	mg/kg	08/16/24	08/16/24
Nickel	22.3		0.65	mg/kg	08/08/24	08/13/24
Selenium	ND		1.31	mg/kg	08/08/24	08/13/24
Silver	ND		1.31	mg/kg	08/08/24	08/13/24
Vanadium	41.3		0.43	mg/kg	08/08/24	08/13/24
Zinc	60.6		2.6	mg/kg	08/08/24	08/13/24
Thallium	ND		0.43	mg/kg	08/08/24	08/13/24

Results: Total Metals**Sample: GP-10 (1-6')****Lab Number: 4H07007-19 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Antimony	ND		0.85	mg/kg	08/08/24	08/13/24
Arsenic	5.58		1.29	mg/kg	08/08/24	08/13/24
Barium	48.0		0.43	mg/kg	08/08/24	08/13/24
Beryllium	ND		0.43	mg/kg	08/08/24	08/13/24
Cadmium	ND		0.65	mg/kg	08/08/24	08/13/24
Chromium	7.69		0.65	mg/kg	08/08/24	08/13/24
Lead	3.25		0.65	mg/kg	08/08/24	08/13/24
Mercury	ND		0.112	mg/kg	08/16/24	08/16/24
Nickel	7.29		0.65	mg/kg	08/08/24	08/13/24
Selenium	ND		1.29	mg/kg	08/08/24	08/13/24
Silver	ND		1.29	mg/kg	08/08/24	08/13/24
Vanadium	26.9		0.43	mg/kg	08/08/24	08/13/24
Zinc	54.8		2.6	mg/kg	08/08/24	08/13/24
Thallium	ND		0.43	mg/kg	08/08/24	08/13/24

Results: Total Metals**Sample: GP-11 (1-6')****Lab Number: 4H07007-21 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Antimony	ND		0.77	mg/kg	08/08/24	08/13/24
Arsenic	15.4		1.17	mg/kg	08/08/24	08/13/24
Barium	67.7		0.39	mg/kg	08/08/24	08/13/24
Beryllium	ND		0.39	mg/kg	08/08/24	08/13/24
Cadmium	ND		0.58	mg/kg	08/08/24	08/13/24
Chromium	23.4		0.58	mg/kg	08/08/24	08/13/24
Lead	8.29		0.58	mg/kg	08/08/24	08/13/24
Mercury	ND		0.098	mg/kg	08/16/24	08/16/24
Nickel	17.5		0.58	mg/kg	08/08/24	08/13/24
Selenium	ND		1.17	mg/kg	08/08/24	08/13/24
Silver	ND		1.17	mg/kg	08/08/24	08/13/24
Vanadium	35.8		0.39	mg/kg	08/08/24	08/13/24
Zinc	62.6		2.3	mg/kg	08/08/24	08/13/24
Thallium	ND		0.39	mg/kg	08/08/24	08/13/24

Results: Total Metals**Sample: GP-12 (5-10')****Lab Number: 4H07007-23 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Antimony	ND		0.70	mg/kg	08/08/24	08/13/24
Arsenic	10.2		1.07	mg/kg	08/08/24	08/13/24
Barium	21.4		0.35	mg/kg	08/08/24	08/13/24
Beryllium	0.40		0.35	mg/kg	08/08/24	08/13/24
Cadmium	ND		0.53	mg/kg	08/08/24	08/13/24
Chromium	16.8		0.53	mg/kg	08/08/24	08/13/24
Lead	7.46		0.53	mg/kg	08/08/24	08/13/24
Mercury	ND		0.094	mg/kg	08/16/24	08/16/24
Nickel	7.83		0.53	mg/kg	08/08/24	08/13/24
Selenium	ND		1.07	mg/kg	08/08/24	08/13/24
Silver	ND		1.07	mg/kg	08/08/24	08/13/24
Vanadium	27.9		0.35	mg/kg	08/08/24	08/13/24
Zinc	49.4		2.1	mg/kg	08/08/24	08/13/24
Thallium	ND		0.35	mg/kg	08/08/24	08/13/24

Results: Total Metals**Sample: GP-13 (5-10')****Lab Number: 4H07007-25 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Antimony	ND		0.73	mg/kg	08/08/24	08/13/24
Arsenic	81.3		1.10	mg/kg	08/08/24	08/13/24
Barium	24.0		0.36	mg/kg	08/08/24	08/13/24
Beryllium	ND		0.36	mg/kg	08/08/24	08/13/24
Cadmium	ND		0.55	mg/kg	08/08/24	08/13/24
Chromium	13.0		0.55	mg/kg	08/08/24	08/13/24
Lead	8.24		0.55	mg/kg	08/08/24	08/13/24
Mercury	ND		0.094	mg/kg	08/16/24	08/16/24
Nickel	11.6		0.55	mg/kg	08/08/24	08/13/24
Selenium	ND		1.10	mg/kg	08/08/24	08/13/24
Silver	ND		1.10	mg/kg	08/08/24	08/13/24
Vanadium	18.3		0.36	mg/kg	08/08/24	08/13/24
Zinc	40.3		2.2	mg/kg	08/08/24	08/13/24
Thallium	ND		0.36	mg/kg	08/08/24	08/13/24

Results: Total Metals

Sample: GP-14 (5-10')

Lab Number: 4H07007-27 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Antimony	ND		0.71	mg/kg	08/08/24	08/13/24
Arsenic	18.7		1.07	mg/kg	08/08/24	08/13/24
Barium	15.0		0.35	mg/kg	08/08/24	08/13/24
Beryllium	ND		0.35	mg/kg	08/08/24	08/13/24
Cadmium	ND		0.53	mg/kg	08/08/24	08/13/24
Chromium	8.61		0.53	mg/kg	08/08/24	08/13/24
Lead	4.60		0.53	mg/kg	08/08/24	08/13/24
Mercury	ND		0.088	mg/kg	08/16/24	08/16/24
Nickel	19.7		0.53	mg/kg	08/08/24	08/13/24
Selenium	ND		1.07	mg/kg	08/08/24	08/13/24
Silver	ND		1.07	mg/kg	08/08/24	08/13/24
Vanadium	12.0		0.35	mg/kg	08/08/24	08/13/24
Zinc	32.0		2.1	mg/kg	08/08/24	08/13/24
Thallium	ND		0.35	mg/kg	08/08/24	08/13/24

Results: Total Metals**Sample: GP-15 (5-10')****Lab Number: 4H07007-29 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Antimony	ND		0.77	mg/kg	08/08/24	08/13/24
Arsenic	13.2		1.17	mg/kg	08/08/24	08/13/24
Barium	27.3		0.39	mg/kg	08/08/24	08/13/24
Beryllium	ND		0.39	mg/kg	08/08/24	08/13/24
Cadmium	ND		0.59	mg/kg	08/08/24	08/13/24
Chromium	43.0		0.59	mg/kg	08/08/24	08/13/24
Lead	10.8		0.59	mg/kg	08/08/24	08/13/24
Mercury	0.137		0.096	mg/kg	08/16/24	08/16/24
Nickel	21.5		0.59	mg/kg	08/08/24	08/13/24
Selenium	ND		1.17	mg/kg	08/08/24	08/13/24
Silver	ND		1.17	mg/kg	08/08/24	08/13/24
Vanadium	44.8		0.39	mg/kg	08/08/24	08/13/24
Zinc	58.1		2.3	mg/kg	08/08/24	08/13/24
Thallium	ND		0.39	mg/kg	08/08/24	08/13/24

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

Sample: GP-1 (4-5')

Lab Number: 4H07007-02 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		0.105	mg/kg	08/08/24	08/08/24
Benzene	ND		0.005	mg/kg	08/08/24	08/08/24
Bromobenzene	ND		0.005	mg/kg	08/08/24	08/08/24
Bromochloromethane	ND		0.005	mg/kg	08/08/24	08/08/24
Bromodichloromethane	ND		0.005	mg/kg	08/08/24	08/08/24
Bromoform	ND		0.005	mg/kg	08/08/24	08/08/24
Bromomethane	ND		0.005	mg/kg	08/08/24	08/08/24
2-Butanone	ND		0.105	mg/kg	08/08/24	08/08/24
tert-Butyl alcohol	ND		0.005	mg/kg	08/08/24	08/08/24
sec-Butylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
n-Butylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
tert-Butylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
Methyl t-butyl ether (MTBE)	ND		0.005	mg/kg	08/08/24	08/08/24
Carbon Disulfide	ND		0.005	mg/kg	08/08/24	08/08/24
Carbon Tetrachloride	ND		0.005	mg/kg	08/08/24	08/08/24
Chlorobenzene	ND		0.005	mg/kg	08/08/24	08/08/24
Chloroethane	ND		0.005	mg/kg	08/08/24	08/08/24
Chloroform	ND		0.005	mg/kg	08/08/24	08/08/24
Chloromethane	ND		0.005	mg/kg	08/08/24	08/08/24
4-Chlorotoluene	ND		0.005	mg/kg	08/08/24	08/08/24
2-Chlorotoluene	ND		0.005	mg/kg	08/08/24	08/08/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		0.005	mg/kg	08/08/24	08/08/24
Dibromochloromethane	ND		0.005	mg/kg	08/08/24	08/08/24
1,2-Dibromoethane (EDB)	ND		0.005	mg/kg	08/08/24	08/08/24
Dibromomethane	ND		0.005	mg/kg	08/08/24	08/08/24
1,2-Dichlorobenzene	ND		0.005	mg/kg	08/08/24	08/08/24
1,3-Dichlorobenzene	ND		0.005	mg/kg	08/08/24	08/08/24
1,4-Dichlorobenzene	ND		0.005	mg/kg	08/08/24	08/08/24
1,1-Dichloroethane	ND		0.005	mg/kg	08/08/24	08/08/24
1,2-Dichloroethane	ND		0.005	mg/kg	08/08/24	08/08/24
1,2 Dichloroethene, Total	ND		0.005	mg/kg	08/08/24	08/08/24
trans-1,2-Dichloroethene	ND		0.005	mg/kg	08/08/24	08/08/24
cis-1,2-Dichloroethene	ND		0.005	mg/kg	08/08/24	08/08/24
1,1-Dichloroethene	ND		0.005	mg/kg	08/08/24	08/08/24
1,2-Dichloropropane	ND		0.005	mg/kg	08/08/24	08/08/24
2,2-Dichloropropane	ND		0.005	mg/kg	08/08/24	08/08/24
cis-1,3-Dichloropropene	ND		0.005	mg/kg	08/08/24	08/08/24
trans-1,3-Dichloropropene	ND		0.005	mg/kg	08/08/24	08/08/24
1,1-Dichloropropene	ND		0.005	mg/kg	08/08/24	08/08/24
1,3-Dichloropropene (cis + trans)	ND		0.005	mg/kg	08/08/24	08/08/24
Diethyl ether	ND		0.005	mg/kg	08/08/24	08/08/24
1,4-Dioxane	ND		0.105	mg/kg	08/08/24	08/08/24
Ethylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
Hexachlorobutadiene	ND		0.005	mg/kg	08/08/24	08/08/24
2-Hexanone	ND		0.105	mg/kg	08/08/24	08/08/24
Isopropylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
p-Isopropyltoluene	ND		0.005	mg/kg	08/08/24	08/08/24

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

Sample: GP-1 (4-5') (Continued)

Lab Number: 4H07007-02 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		0.005	mg/kg	08/08/24	08/08/24
4-Methyl-2-pentanone	ND		0.105	mg/kg	08/08/24	08/08/24
Naphthalene	ND		0.005	mg/kg	08/08/24	08/08/24
n-Propylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
Styrene	ND		0.005	mg/kg	08/08/24	08/08/24
1,1,1,2-Tetrachloroethane	ND		0.005	mg/kg	08/08/24	08/08/24
Tetrachloroethene	ND		0.005	mg/kg	08/08/24	08/08/24
Tetrahydrofuran	ND		0.005	mg/kg	08/08/24	08/08/24
Toluene	ND		0.005	mg/kg	08/08/24	08/08/24
1,2,4-Trichlorobenzene	ND		0.005	mg/kg	08/08/24	08/08/24
1,2,3-Trichlorobenzene	ND		0.005	mg/kg	08/08/24	08/08/24
1,1,2-Trichloroethane	ND		0.005	mg/kg	08/08/24	08/08/24
1,1,1-Trichloroethane	ND		0.005	mg/kg	08/08/24	08/08/24
Trichloroethene	ND		0.005	mg/kg	08/08/24	08/08/24
1,2,3-Trichloropropane	ND		0.005	mg/kg	08/08/24	08/08/24
1,3,5-Trimethylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
1,2,4-Trimethylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
Vinyl Chloride	ND		0.005	mg/kg	08/08/24	08/08/24
o-Xylene	ND		0.005	mg/kg	08/08/24	08/08/24
m&p-Xylene	ND		0.010	mg/kg	08/08/24	08/08/24
Total xylenes	ND		0.005	mg/kg	08/08/24	08/08/24
1,1,2,2-Tetrachloroethane	ND		0.005	mg/kg	08/08/24	08/08/24
tert-Amyl methyl ether	ND		0.005	mg/kg	08/08/24	08/08/24
1,3-Dichloropropane	ND		0.005	mg/kg	08/08/24	08/08/24
Ethyl tert-butyl ether	ND		0.005	mg/kg	08/08/24	08/08/24
Diisopropyl ether	ND		0.005	mg/kg	08/08/24	08/08/24
Trichlorofluoromethane	ND		0.005	mg/kg	08/08/24	08/08/24
Dichlorodifluoromethane	ND		0.005	mg/kg	08/08/24	08/08/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	101%		70-130		08/08/24	08/08/24
1,2-Dichloroethane-d4	107%		70-130		08/08/24	08/08/24
Toluene-d8	97.2%		70-130		08/08/24	08/08/24

Results: Volatile Organic Compounds 8260C (5035-LL)**Sample: GP-2 (4-5')****Lab Number: 4H07007-04 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		0.127	mg/kg	08/08/24	08/08/24
Benzene	ND		0.006	mg/kg	08/08/24	08/08/24
Bromobenzene	ND		0.006	mg/kg	08/08/24	08/08/24
Bromochloromethane	ND		0.006	mg/kg	08/08/24	08/08/24
Bromodichloromethane	ND		0.006	mg/kg	08/08/24	08/08/24
Bromoform	ND		0.006	mg/kg	08/08/24	08/08/24
Bromomethane	ND		0.006	mg/kg	08/08/24	08/08/24
2-Butanone	ND		0.127	mg/kg	08/08/24	08/08/24
tert-Butyl alcohol	ND		0.006	mg/kg	08/08/24	08/08/24
sec-Butylbenzene	ND		0.006	mg/kg	08/08/24	08/08/24
n-Butylbenzene	ND		0.006	mg/kg	08/08/24	08/08/24
tert-Butylbenzene	ND		0.006	mg/kg	08/08/24	08/08/24
Methyl t-butyl ether (MTBE)	ND		0.006	mg/kg	08/08/24	08/08/24
Carbon Disulfide	ND		0.006	mg/kg	08/08/24	08/08/24
Carbon Tetrachloride	ND		0.006	mg/kg	08/08/24	08/08/24
Chlorobenzene	ND		0.006	mg/kg	08/08/24	08/08/24
Chloroethane	ND		0.006	mg/kg	08/08/24	08/08/24
Chloroform	ND		0.006	mg/kg	08/08/24	08/08/24
Chloromethane	ND		0.006	mg/kg	08/08/24	08/08/24
4-Chlorotoluene	ND		0.006	mg/kg	08/08/24	08/08/24
2-Chlorotoluene	ND		0.006	mg/kg	08/08/24	08/08/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		0.006	mg/kg	08/08/24	08/08/24
Dibromochloromethane	ND		0.006	mg/kg	08/08/24	08/08/24
1,2-Dibromoethane (EDB)	ND		0.006	mg/kg	08/08/24	08/08/24
Dibromomethane	ND		0.006	mg/kg	08/08/24	08/08/24
1,2-Dichlorobenzene	ND		0.006	mg/kg	08/08/24	08/08/24
1,3-Dichlorobenzene	ND		0.006	mg/kg	08/08/24	08/08/24
1,4-Dichlorobenzene	ND		0.006	mg/kg	08/08/24	08/08/24
1,1-Dichloroethane	ND		0.006	mg/kg	08/08/24	08/08/24
1,2-Dichloroethane	ND		0.006	mg/kg	08/08/24	08/08/24
1,2 Dichloroethene, Total	ND		0.006	mg/kg	08/08/24	08/08/24
trans-1,2-Dichloroethene	ND		0.006	mg/kg	08/08/24	08/08/24
cis-1,2-Dichloroethene	ND		0.006	mg/kg	08/08/24	08/08/24
1,1-Dichloroethene	ND		0.006	mg/kg	08/08/24	08/08/24
1,2-Dichloropropane	ND		0.006	mg/kg	08/08/24	08/08/24
2,2-Dichloropropane	ND		0.006	mg/kg	08/08/24	08/08/24
cis-1,3-Dichloropropene	ND		0.006	mg/kg	08/08/24	08/08/24
trans-1,3-Dichloropropene	ND		0.006	mg/kg	08/08/24	08/08/24
1,1-Dichloropropene	ND		0.006	mg/kg	08/08/24	08/08/24
1,3-Dichloropropene (cis + trans)	ND		0.006	mg/kg	08/08/24	08/08/24
Diethyl ether	ND		0.006	mg/kg	08/08/24	08/08/24
1,4-Dioxane	ND		0.127	mg/kg	08/08/24	08/08/24
Ethylbenzene	ND		0.006	mg/kg	08/08/24	08/08/24
Hexachlorobutadiene	ND		0.006	mg/kg	08/08/24	08/08/24
2-Hexanone	ND		0.127	mg/kg	08/08/24	08/08/24
Isopropylbenzene	ND		0.006	mg/kg	08/08/24	08/08/24
p-Isopropyltoluene	ND		0.006	mg/kg	08/08/24	08/08/24

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

Sample: GP-2 (4-5') (Continued)

Lab Number: 4H07007-04 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		0.006	mg/kg	08/08/24	08/08/24
4-Methyl-2-pentanone	ND		0.127	mg/kg	08/08/24	08/08/24
Naphthalene	ND		0.006	mg/kg	08/08/24	08/08/24
n-Propylbenzene	ND		0.006	mg/kg	08/08/24	08/08/24
Styrene	ND		0.006	mg/kg	08/08/24	08/08/24
1,1,1,2-Tetrachloroethane	ND		0.006	mg/kg	08/08/24	08/08/24
Tetrachloroethene	ND		0.006	mg/kg	08/08/24	08/08/24
Tetrahydrofuran	ND		0.006	mg/kg	08/08/24	08/08/24
Toluene	ND		0.006	mg/kg	08/08/24	08/08/24
1,2,4-Trichlorobenzene	ND		0.006	mg/kg	08/08/24	08/08/24
1,2,3-Trichlorobenzene	ND		0.006	mg/kg	08/08/24	08/08/24
1,1,2-Trichloroethane	ND		0.006	mg/kg	08/08/24	08/08/24
1,1,1-Trichloroethane	ND		0.006	mg/kg	08/08/24	08/08/24
Trichloroethene	ND		0.006	mg/kg	08/08/24	08/08/24
1,2,3-Trichloropropane	ND		0.006	mg/kg	08/08/24	08/08/24
1,3,5-Trimethylbenzene	ND		0.006	mg/kg	08/08/24	08/08/24
1,2,4-Trimethylbenzene	ND		0.006	mg/kg	08/08/24	08/08/24
Vinyl Chloride	ND		0.006	mg/kg	08/08/24	08/08/24
o-Xylene	ND		0.006	mg/kg	08/08/24	08/08/24
m&p-Xylene	ND		0.013	mg/kg	08/08/24	08/08/24
Total xylenes	ND		0.006	mg/kg	08/08/24	08/08/24
1,1,2,2-Tetrachloroethane	ND		0.006	mg/kg	08/08/24	08/08/24
tert-Amyl methyl ether	ND		0.006	mg/kg	08/08/24	08/08/24
1,3-Dichloropropane	ND		0.006	mg/kg	08/08/24	08/08/24
Ethyl tert-butyl ether	ND		0.006	mg/kg	08/08/24	08/08/24
Diisopropyl ether	ND		0.006	mg/kg	08/08/24	08/08/24
Trichlorofluoromethane	ND		0.006	mg/kg	08/08/24	08/08/24
Dichlorodifluoromethane	ND		0.006	mg/kg	08/08/24	08/08/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	101%		70-130		08/08/24	08/08/24
1,2-Dichloroethane-d4	107%		70-130		08/08/24	08/08/24
Toluene-d8	98.4%		70-130		08/08/24	08/08/24

Results: Volatile Organic Compounds 8260C (5035-LL)**Sample: GP-3 (5-6')****Lab Number: 4H07007-06 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		0.110	mg/kg	08/08/24	08/08/24
Benzene	ND		0.005	mg/kg	08/08/24	08/08/24
Bromobenzene	ND		0.005	mg/kg	08/08/24	08/08/24
Bromochloromethane	ND		0.005	mg/kg	08/08/24	08/08/24
Bromodichloromethane	ND		0.005	mg/kg	08/08/24	08/08/24
Bromoform	ND		0.005	mg/kg	08/08/24	08/08/24
Bromomethane	ND		0.005	mg/kg	08/08/24	08/08/24
2-Butanone	ND		0.110	mg/kg	08/08/24	08/08/24
tert-Butyl alcohol	ND		0.005	mg/kg	08/08/24	08/08/24
sec-Butylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
n-Butylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
tert-Butylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
Methyl t-butyl ether (MTBE)	ND		0.005	mg/kg	08/08/24	08/08/24
Carbon Disulfide	ND		0.005	mg/kg	08/08/24	08/08/24
Carbon Tetrachloride	ND		0.005	mg/kg	08/08/24	08/08/24
Chlorobenzene	ND		0.005	mg/kg	08/08/24	08/08/24
Chloroethane	ND		0.005	mg/kg	08/08/24	08/08/24
Chloroform	ND		0.005	mg/kg	08/08/24	08/08/24
Chloromethane	ND		0.005	mg/kg	08/08/24	08/08/24
4-Chlorotoluene	ND		0.005	mg/kg	08/08/24	08/08/24
2-Chlorotoluene	ND		0.005	mg/kg	08/08/24	08/08/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		0.005	mg/kg	08/08/24	08/08/24
Dibromochloromethane	ND		0.005	mg/kg	08/08/24	08/08/24
1,2-Dibromoethane (EDB)	ND		0.005	mg/kg	08/08/24	08/08/24
Dibromomethane	ND		0.005	mg/kg	08/08/24	08/08/24
1,2-Dichlorobenzene	ND		0.005	mg/kg	08/08/24	08/08/24
1,3-Dichlorobenzene	ND		0.005	mg/kg	08/08/24	08/08/24
1,4-Dichlorobenzene	ND		0.005	mg/kg	08/08/24	08/08/24
1,1-Dichloroethane	ND		0.005	mg/kg	08/08/24	08/08/24
1,2-Dichloroethane	ND		0.005	mg/kg	08/08/24	08/08/24
1,2 Dichloroethene, Total	ND		0.005	mg/kg	08/08/24	08/08/24
trans-1,2-Dichloroethene	ND		0.005	mg/kg	08/08/24	08/08/24
cis-1,2-Dichloroethene	ND		0.005	mg/kg	08/08/24	08/08/24
1,1-Dichloroethene	ND		0.005	mg/kg	08/08/24	08/08/24
1,2-Dichloropropane	ND		0.005	mg/kg	08/08/24	08/08/24
2,2-Dichloropropane	ND		0.005	mg/kg	08/08/24	08/08/24
cis-1,3-Dichloropropene	ND		0.005	mg/kg	08/08/24	08/08/24
trans-1,3-Dichloropropene	ND		0.005	mg/kg	08/08/24	08/08/24
1,1-Dichloropropene	ND		0.005	mg/kg	08/08/24	08/08/24
1,3-Dichloropropene (cis + trans)	ND		0.005	mg/kg	08/08/24	08/08/24
Diethyl ether	ND		0.005	mg/kg	08/08/24	08/08/24
1,4-Dioxane	ND		0.110	mg/kg	08/08/24	08/08/24
Ethylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
Hexachlorobutadiene	ND		0.005	mg/kg	08/08/24	08/08/24
2-Hexanone	ND		0.110	mg/kg	08/08/24	08/08/24
Isopropylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
p-Isopropyltoluene	ND		0.005	mg/kg	08/08/24	08/08/24

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

Sample: GP-3 (5-6') (Continued)

Lab Number: 4H07007-06 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		0.005	mg/kg	08/08/24	08/08/24
4-Methyl-2-pentanone	ND		0.110	mg/kg	08/08/24	08/08/24
Naphthalene	ND		0.005	mg/kg	08/08/24	08/08/24
n-Propylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
Styrene	ND		0.005	mg/kg	08/08/24	08/08/24
1,1,1,2-Tetrachloroethane	ND		0.005	mg/kg	08/08/24	08/08/24
Tetrachloroethene	ND		0.005	mg/kg	08/08/24	08/08/24
Tetrahydrofuran	ND		0.005	mg/kg	08/08/24	08/08/24
Toluene	ND		0.005	mg/kg	08/08/24	08/08/24
1,2,4-Trichlorobenzene	ND		0.005	mg/kg	08/08/24	08/08/24
1,2,3-Trichlorobenzene	ND		0.005	mg/kg	08/08/24	08/08/24
1,1,2-Trichloroethane	ND		0.005	mg/kg	08/08/24	08/08/24
1,1,1-Trichloroethane	ND		0.005	mg/kg	08/08/24	08/08/24
Trichloroethene	ND		0.005	mg/kg	08/08/24	08/08/24
1,2,3-Trichloropropane	ND		0.005	mg/kg	08/08/24	08/08/24
1,3,5-Trimethylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
1,2,4-Trimethylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
Vinyl Chloride	ND		0.005	mg/kg	08/08/24	08/08/24
o-Xylene	ND		0.005	mg/kg	08/08/24	08/08/24
m&p-Xylene	ND		0.011	mg/kg	08/08/24	08/08/24
Total xylenes	ND		0.005	mg/kg	08/08/24	08/08/24
1,1,2,2-Tetrachloroethane	ND		0.005	mg/kg	08/08/24	08/08/24
tert-Amyl methyl ether	ND		0.005	mg/kg	08/08/24	08/08/24
1,3-Dichloropropane	ND		0.005	mg/kg	08/08/24	08/08/24
Ethyl tert-butyl ether	ND		0.005	mg/kg	08/08/24	08/08/24
Diisopropyl ether	ND		0.005	mg/kg	08/08/24	08/08/24
Trichlorofluoromethane	ND		0.005	mg/kg	08/08/24	08/08/24
Dichlorodifluoromethane	ND		0.005	mg/kg	08/08/24	08/08/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	100%		70-130		08/08/24	08/08/24
1,2-Dichloroethane-d4	103%		70-130		08/08/24	08/08/24
Toluene-d8	96.6%		70-130		08/08/24	08/08/24

Results: Volatile Organic Compounds 8260C (5035-LL)**Sample: GP-4 (5-6')****Lab Number: 4H07007-08 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		0.104	mg/kg	08/08/24	08/08/24
Benzene	ND		0.005	mg/kg	08/08/24	08/08/24
Bromobenzene	ND		0.005	mg/kg	08/08/24	08/08/24
Bromochloromethane	ND		0.005	mg/kg	08/08/24	08/08/24
Bromodichloromethane	ND		0.005	mg/kg	08/08/24	08/08/24
Bromoform	ND		0.005	mg/kg	08/08/24	08/08/24
Bromomethane	ND		0.005	mg/kg	08/08/24	08/08/24
2-Butanone	ND		0.104	mg/kg	08/08/24	08/08/24
tert-Butyl alcohol	ND		0.005	mg/kg	08/08/24	08/08/24
sec-Butylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
n-Butylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
tert-Butylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
Methyl t-butyl ether (MTBE)	ND		0.005	mg/kg	08/08/24	08/08/24
Carbon Disulfide	ND		0.005	mg/kg	08/08/24	08/08/24
Carbon Tetrachloride	ND		0.005	mg/kg	08/08/24	08/08/24
Chlorobenzene	ND		0.005	mg/kg	08/08/24	08/08/24
Chloroethane	ND		0.005	mg/kg	08/08/24	08/08/24
Chloroform	ND		0.005	mg/kg	08/08/24	08/08/24
Chloromethane	ND		0.005	mg/kg	08/08/24	08/08/24
4-Chlorotoluene	ND		0.005	mg/kg	08/08/24	08/08/24
2-Chlorotoluene	ND		0.005	mg/kg	08/08/24	08/08/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		0.005	mg/kg	08/08/24	08/08/24
Dibromochloromethane	ND		0.005	mg/kg	08/08/24	08/08/24
1,2-Dibromoethane (EDB)	ND		0.005	mg/kg	08/08/24	08/08/24
Dibromomethane	ND		0.005	mg/kg	08/08/24	08/08/24
1,2-Dichlorobenzene	ND		0.005	mg/kg	08/08/24	08/08/24
1,3-Dichlorobenzene	ND		0.005	mg/kg	08/08/24	08/08/24
1,4-Dichlorobenzene	ND		0.005	mg/kg	08/08/24	08/08/24
1,1-Dichloroethane	ND		0.005	mg/kg	08/08/24	08/08/24
1,2-Dichloroethane	ND		0.005	mg/kg	08/08/24	08/08/24
1,2 Dichloroethene, Total	ND		0.005	mg/kg	08/08/24	08/08/24
trans-1,2-Dichloroethene	ND		0.005	mg/kg	08/08/24	08/08/24
cis-1,2-Dichloroethene	ND		0.005	mg/kg	08/08/24	08/08/24
1,1-Dichloroethene	ND		0.005	mg/kg	08/08/24	08/08/24
1,2-Dichloropropane	ND		0.005	mg/kg	08/08/24	08/08/24
2,2-Dichloropropane	ND		0.005	mg/kg	08/08/24	08/08/24
cis-1,3-Dichloropropene	ND		0.005	mg/kg	08/08/24	08/08/24
trans-1,3-Dichloropropene	ND		0.005	mg/kg	08/08/24	08/08/24
1,1-Dichloropropene	ND		0.005	mg/kg	08/08/24	08/08/24
1,3-Dichloropropene (cis + trans)	ND		0.005	mg/kg	08/08/24	08/08/24
Diethyl ether	ND		0.005	mg/kg	08/08/24	08/08/24
1,4-Dioxane	ND		0.104	mg/kg	08/08/24	08/08/24
Ethylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
Hexachlorobutadiene	ND		0.005	mg/kg	08/08/24	08/08/24
2-Hexanone	ND		0.104	mg/kg	08/08/24	08/08/24
Isopropylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
p-Isopropyltoluene	ND		0.005	mg/kg	08/08/24	08/08/24

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

Sample: GP-4 (5-6') (Continued)

Lab Number: 4H07007-08 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		0.005	mg/kg	08/08/24	08/08/24
4-Methyl-2-pentanone	ND		0.104	mg/kg	08/08/24	08/08/24
Naphthalene	ND		0.005	mg/kg	08/08/24	08/08/24
n-Propylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
Styrene	ND		0.005	mg/kg	08/08/24	08/08/24
1,1,1,2-Tetrachloroethane	ND		0.005	mg/kg	08/08/24	08/08/24
Tetrachloroethene	ND		0.005	mg/kg	08/08/24	08/08/24
Tetrahydrofuran	ND		0.005	mg/kg	08/08/24	08/08/24
Toluene	ND		0.005	mg/kg	08/08/24	08/08/24
1,2,4-Trichlorobenzene	ND		0.005	mg/kg	08/08/24	08/08/24
1,2,3-Trichlorobenzene	ND		0.005	mg/kg	08/08/24	08/08/24
1,1,2-Trichloroethane	ND		0.005	mg/kg	08/08/24	08/08/24
1,1,1-Trichloroethane	ND		0.005	mg/kg	08/08/24	08/08/24
Trichloroethene	ND		0.005	mg/kg	08/08/24	08/08/24
1,2,3-Trichloropropane	ND		0.005	mg/kg	08/08/24	08/08/24
1,3,5-Trimethylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
1,2,4-Trimethylbenzene	ND		0.005	mg/kg	08/08/24	08/08/24
Vinyl Chloride	ND		0.005	mg/kg	08/08/24	08/08/24
o-Xylene	ND		0.005	mg/kg	08/08/24	08/08/24
m&p-Xylene	ND		0.010	mg/kg	08/08/24	08/08/24
Total xylenes	ND		0.005	mg/kg	08/08/24	08/08/24
1,1,2,2-Tetrachloroethane	ND		0.005	mg/kg	08/08/24	08/08/24
tert-Amyl methyl ether	ND		0.005	mg/kg	08/08/24	08/08/24
1,3-Dichloropropane	ND		0.005	mg/kg	08/08/24	08/08/24
Ethyl tert-butyl ether	ND		0.005	mg/kg	08/08/24	08/08/24
Diisopropyl ether	ND		0.005	mg/kg	08/08/24	08/08/24
Trichlorofluoromethane	ND		0.005	mg/kg	08/08/24	08/08/24
Dichlorodifluoromethane	ND		0.005	mg/kg	08/08/24	08/08/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	99.1%		70-130		08/08/24	08/08/24
1,2-Dichloroethane-d4	101%		70-130		08/08/24	08/08/24
Toluene-d8	100%		70-130		08/08/24	08/08/24

Results: Volatile Organic Compounds 8260C (5035-LL)**Sample: GP-5 (5-6')****Lab Number: 4H07007-10 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		0.111	mg/kg	08/08/24	08/08/24
Benzene	ND		0.006	mg/kg	08/08/24	08/08/24
Bromobenzene	ND		0.006	mg/kg	08/08/24	08/08/24
Bromochloromethane	ND		0.006	mg/kg	08/08/24	08/08/24
Bromodichloromethane	ND		0.006	mg/kg	08/08/24	08/08/24
Bromoform	ND		0.006	mg/kg	08/08/24	08/08/24
Bromomethane	ND		0.006	mg/kg	08/08/24	08/08/24
2-Butanone	ND		0.111	mg/kg	08/08/24	08/08/24
tert-Butyl alcohol	ND		0.006	mg/kg	08/08/24	08/08/24
sec-Butylbenzene	ND		0.006	mg/kg	08/08/24	08/08/24
n-Butylbenzene	ND		0.006	mg/kg	08/08/24	08/08/24
tert-Butylbenzene	ND		0.006	mg/kg	08/08/24	08/08/24
Methyl t-butyl ether (MTBE)	ND		0.006	mg/kg	08/08/24	08/08/24
Carbon Disulfide	ND		0.006	mg/kg	08/08/24	08/08/24
Carbon Tetrachloride	ND		0.006	mg/kg	08/08/24	08/08/24
Chlorobenzene	ND		0.006	mg/kg	08/08/24	08/08/24
Chloroethane	ND		0.006	mg/kg	08/08/24	08/08/24
Chloroform	ND		0.006	mg/kg	08/08/24	08/08/24
Chloromethane	ND		0.006	mg/kg	08/08/24	08/08/24
4-Chlorotoluene	ND		0.006	mg/kg	08/08/24	08/08/24
2-Chlorotoluene	ND		0.006	mg/kg	08/08/24	08/08/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		0.006	mg/kg	08/08/24	08/08/24
Dibromochloromethane	ND		0.006	mg/kg	08/08/24	08/08/24
1,2-Dibromoethane (EDB)	ND		0.006	mg/kg	08/08/24	08/08/24
Dibromomethane	ND		0.006	mg/kg	08/08/24	08/08/24
1,2-Dichlorobenzene	ND		0.006	mg/kg	08/08/24	08/08/24
1,3-Dichlorobenzene	ND		0.006	mg/kg	08/08/24	08/08/24
1,4-Dichlorobenzene	ND		0.006	mg/kg	08/08/24	08/08/24
1,1-Dichloroethane	ND		0.006	mg/kg	08/08/24	08/08/24
1,2-Dichloroethane	ND		0.006	mg/kg	08/08/24	08/08/24
1,2 Dichloroethene, Total	ND		0.006	mg/kg	08/08/24	08/08/24
trans-1,2-Dichloroethene	ND		0.006	mg/kg	08/08/24	08/08/24
cis-1,2-Dichloroethene	ND		0.006	mg/kg	08/08/24	08/08/24
1,1-Dichloroethene	ND		0.006	mg/kg	08/08/24	08/08/24
1,2-Dichloropropane	ND		0.006	mg/kg	08/08/24	08/08/24
2,2-Dichloropropane	ND		0.006	mg/kg	08/08/24	08/08/24
cis-1,3-Dichloropropene	ND		0.006	mg/kg	08/08/24	08/08/24
trans-1,3-Dichloropropene	ND		0.006	mg/kg	08/08/24	08/08/24
1,1-Dichloropropene	ND		0.006	mg/kg	08/08/24	08/08/24
1,3-Dichloropropene (cis + trans)	ND		0.006	mg/kg	08/08/24	08/08/24
Diethyl ether	ND		0.006	mg/kg	08/08/24	08/08/24
1,4-Dioxane	ND		0.111	mg/kg	08/08/24	08/08/24
Ethylbenzene	ND		0.006	mg/kg	08/08/24	08/08/24
Hexachlorobutadiene	ND		0.006	mg/kg	08/08/24	08/08/24
2-Hexanone	ND		0.111	mg/kg	08/08/24	08/08/24
Isopropylbenzene	ND		0.006	mg/kg	08/08/24	08/08/24
p-Isopropyltoluene	ND		0.006	mg/kg	08/08/24	08/08/24

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

Sample: GP-5 (5-6') (Continued)

Lab Number: 4H07007-10 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		0.006	mg/kg	08/08/24	08/08/24
4-Methyl-2-pentanone	ND		0.111	mg/kg	08/08/24	08/08/24
Naphthalene	ND		0.006	mg/kg	08/08/24	08/08/24
n-Propylbenzene	ND		0.006	mg/kg	08/08/24	08/08/24
Styrene	ND		0.006	mg/kg	08/08/24	08/08/24
1,1,1,2-Tetrachloroethane	ND		0.006	mg/kg	08/08/24	08/08/24
Tetrachloroethene	ND		0.006	mg/kg	08/08/24	08/08/24
Tetrahydrofuran	ND		0.006	mg/kg	08/08/24	08/08/24
Toluene	ND		0.006	mg/kg	08/08/24	08/08/24
1,2,4-Trichlorobenzene	ND		0.006	mg/kg	08/08/24	08/08/24
1,2,3-Trichlorobenzene	ND		0.006	mg/kg	08/08/24	08/08/24
1,1,2-Trichloroethane	ND		0.006	mg/kg	08/08/24	08/08/24
1,1,1-Trichloroethane	ND		0.006	mg/kg	08/08/24	08/08/24
Trichloroethene	ND		0.006	mg/kg	08/08/24	08/08/24
1,2,3-Trichloropropane	ND		0.006	mg/kg	08/08/24	08/08/24
1,3,5-Trimethylbenzene	ND		0.006	mg/kg	08/08/24	08/08/24
1,2,4-Trimethylbenzene	ND		0.006	mg/kg	08/08/24	08/08/24
Vinyl Chloride	ND		0.006	mg/kg	08/08/24	08/08/24
o-Xylene	ND		0.006	mg/kg	08/08/24	08/08/24
m&p-Xylene	ND		0.011	mg/kg	08/08/24	08/08/24
Total xylenes	ND		0.006	mg/kg	08/08/24	08/08/24
1,1,2,2-Tetrachloroethane	ND		0.006	mg/kg	08/08/24	08/08/24
tert-Amyl methyl ether	ND		0.006	mg/kg	08/08/24	08/08/24
1,3-Dichloropropane	ND		0.006	mg/kg	08/08/24	08/08/24
Ethyl tert-butyl ether	ND		0.006	mg/kg	08/08/24	08/08/24
Diisopropyl ether	ND		0.006	mg/kg	08/08/24	08/08/24
Trichlorofluoromethane	ND		0.006	mg/kg	08/08/24	08/08/24
Dichlorodifluoromethane	ND		0.006	mg/kg	08/08/24	08/08/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	99.4%		70-130		08/08/24	08/08/24
1,2-Dichloroethane-d4	101%		70-130		08/08/24	08/08/24
Toluene-d8	98.7%		70-130		08/08/24	08/08/24

Results: Volatile Organic Compounds 8260C (5035-LL)**Sample: GP-6 (13-15')****Lab Number: 4H07007-12 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		0.125	mg/kg	08/09/24	08/09/24
Benzene	ND		0.006	mg/kg	08/09/24	08/09/24
Bromobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Bromochloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Bromodichloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Bromoform	ND		0.006	mg/kg	08/09/24	08/09/24
Bromomethane	ND		0.006	mg/kg	08/09/24	08/09/24
2-Butanone	ND		0.125	mg/kg	08/09/24	08/09/24
tert-Butyl alcohol	ND		0.006	mg/kg	08/09/24	08/09/24
sec-Butylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
n-Butylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
tert-Butylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Methyl t-butyl ether (MTBE)	ND		0.006	mg/kg	08/09/24	08/09/24
Carbon Disulfide	ND		0.006	mg/kg	08/09/24	08/09/24
Carbon Tetrachloride	ND		0.006	mg/kg	08/09/24	08/09/24
Chlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Chloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
Chloroform	ND		0.006	mg/kg	08/09/24	08/09/24
Chloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
4-Chlorotoluene	ND		0.006	mg/kg	08/09/24	08/09/24
2-Chlorotoluene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		0.006	mg/kg	08/09/24	08/09/24
Dibromochloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dibromoethane (EDB)	ND		0.006	mg/kg	08/09/24	08/09/24
Dibromomethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,3-Dichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,4-Dichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1-Dichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2 Dichloroethene, Total	ND		0.006	mg/kg	08/09/24	08/09/24
trans-1,2-Dichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
cis-1,2-Dichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1-Dichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
2,2-Dichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
cis-1,3-Dichloropropene	ND		0.006	mg/kg	08/09/24	08/09/24
trans-1,3-Dichloropropene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1-Dichloropropene	ND		0.006	mg/kg	08/09/24	08/09/24
1,3-Dichloropropene (cis + trans)	ND		0.006	mg/kg	08/09/24	08/09/24
Diethyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
1,4-Dioxane	ND		0.125	mg/kg	08/09/24	08/09/24
Ethylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Hexachlorobutadiene	ND		0.006	mg/kg	08/09/24	08/09/24
2-Hexanone	ND		0.125	mg/kg	08/09/24	08/09/24
Isopropylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
p-Isopropyltoluene	ND		0.006	mg/kg	08/09/24	08/09/24

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

Sample: GP-6 (13-15') (Continued)

Lab Number: 4H07007-12 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		0.006	mg/kg	08/09/24	08/09/24
4-Methyl-2-pentanone	ND		0.125	mg/kg	08/09/24	08/09/24
Naphthalene	ND		0.006	mg/kg	08/09/24	08/09/24
n-Propylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Styrene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,1,2-Tetrachloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
Tetrachloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
Tetrahydrofuran	ND		0.006	mg/kg	08/09/24	08/09/24
Toluene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,4-Trichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,3-Trichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,2-Trichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,1-Trichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
Trichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,3-Trichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
1,3,5-Trimethylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,4-Trimethylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Vinyl Chloride	ND		0.006	mg/kg	08/09/24	08/09/24
o-Xylene	ND		0.006	mg/kg	08/09/24	08/09/24
m&p-Xylene	ND		0.013	mg/kg	08/09/24	08/09/24
Total xylenes	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,2,2-Tetrachloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
tert-Amyl methyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
1,3-Dichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
Ethyl tert-butyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
Diisopropyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
Trichlorofluoromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Dichlorodifluoromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	98.6%		70-130		08/09/24	08/09/24
1,2-Dichloroethane-d4	108%		70-130		08/09/24	08/09/24
Toluene-d8	98.6%		70-130		08/09/24	08/09/24

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

Sample: GP-7 (13-15')
Lab Number: 4H07007-14 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		0.129	mg/kg	08/09/24	08/09/24
Benzene	ND		0.006	mg/kg	08/09/24	08/09/24
Bromobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Bromochloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Bromodichloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Bromoform	ND		0.006	mg/kg	08/09/24	08/09/24
Bromomethane	ND		0.006	mg/kg	08/09/24	08/09/24
2-Butanone	ND		0.129	mg/kg	08/09/24	08/09/24
tert-Butyl alcohol	ND		0.006	mg/kg	08/09/24	08/09/24
sec-Butylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
n-Butylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
tert-Butylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Methyl t-butyl ether (MTBE)	ND		0.006	mg/kg	08/09/24	08/09/24
Carbon Disulfide	ND		0.006	mg/kg	08/09/24	08/09/24
Carbon Tetrachloride	ND		0.006	mg/kg	08/09/24	08/09/24
Chlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Chloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
Chloroform	ND		0.006	mg/kg	08/09/24	08/09/24
Chloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
4-Chlorotoluene	ND		0.006	mg/kg	08/09/24	08/09/24
2-Chlorotoluene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		0.006	mg/kg	08/09/24	08/09/24
Dibromochloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dibromoethane (EDB)	ND		0.006	mg/kg	08/09/24	08/09/24
Dibromomethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,3-Dichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,4-Dichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1-Dichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2 Dichloroethene, Total	ND		0.006	mg/kg	08/09/24	08/09/24
trans-1,2-Dichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
cis-1,2-Dichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1-Dichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
2,2-Dichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
cis-1,3-Dichloropropene	ND		0.006	mg/kg	08/09/24	08/09/24
trans-1,3-Dichloropropene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1-Dichloropropene	ND		0.006	mg/kg	08/09/24	08/09/24
1,3-Dichloropropene (cis + trans)	ND		0.006	mg/kg	08/09/24	08/09/24
Diethyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
1,4-Dioxane	ND		0.129	mg/kg	08/09/24	08/09/24
Ethylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Hexachlorobutadiene	ND		0.006	mg/kg	08/09/24	08/09/24
2-Hexanone	ND		0.129	mg/kg	08/09/24	08/09/24
Isopropylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
p-Isopropyltoluene	ND		0.006	mg/kg	08/09/24	08/09/24

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

Sample: GP-7 (13-15') (Continued)

Lab Number: 4H07007-14 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		0.006	mg/kg	08/09/24	08/09/24
4-Methyl-2-pentanone	ND		0.129	mg/kg	08/09/24	08/09/24
Naphthalene	ND		0.006	mg/kg	08/09/24	08/09/24
n-Propylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Styrene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,1,2-Tetrachloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
Tetrachloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
Tetrahydrofuran	ND		0.006	mg/kg	08/09/24	08/09/24
Toluene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,4-Trichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,3-Trichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,2-Trichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,1-Trichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
Trichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,3-Trichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
1,3,5-Trimethylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,4-Trimethylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Vinyl Chloride	ND		0.006	mg/kg	08/09/24	08/09/24
o-Xylene	ND		0.006	mg/kg	08/09/24	08/09/24
m&p-Xylene	ND		0.013	mg/kg	08/09/24	08/09/24
Total xylenes	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,2,2-Tetrachloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
tert-Amyl methyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
1,3-Dichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
Ethyl tert-butyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
Diisopropyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
Trichlorofluoromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Dichlorodifluoromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	99.7%		70-130		08/09/24	08/09/24
1,2-Dichloroethane-d4	102%		70-130		08/09/24	08/09/24
Toluene-d8	99.0%		70-130		08/09/24	08/09/24

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

Sample: GP-8 (8-10')

Lab Number: 4H07007-16 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		0.121	mg/kg	08/09/24	08/09/24
Benzene	ND		0.006	mg/kg	08/09/24	08/09/24
Bromobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Bromochloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Bromodichloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Bromoform	ND		0.006	mg/kg	08/09/24	08/09/24
Bromomethane	ND		0.006	mg/kg	08/09/24	08/09/24
2-Butanone	ND		0.121	mg/kg	08/09/24	08/09/24
tert-Butyl alcohol	ND		0.006	mg/kg	08/09/24	08/09/24
sec-Butylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
n-Butylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
tert-Butylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Methyl t-butyl ether (MTBE)	ND		0.006	mg/kg	08/09/24	08/09/24
Carbon Disulfide	ND		0.006	mg/kg	08/09/24	08/09/24
Carbon Tetrachloride	ND		0.006	mg/kg	08/09/24	08/09/24
Chlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Chloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
Chloroform	ND		0.006	mg/kg	08/09/24	08/09/24
Chloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
4-Chlorotoluene	ND		0.006	mg/kg	08/09/24	08/09/24
2-Chlorotoluene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		0.006	mg/kg	08/09/24	08/09/24
Dibromochloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dibromoethane (EDB)	ND		0.006	mg/kg	08/09/24	08/09/24
Dibromomethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,3-Dichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,4-Dichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1-Dichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2 Dichloroethene, Total	ND		0.006	mg/kg	08/09/24	08/09/24
trans-1,2-Dichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
cis-1,2-Dichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1-Dichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
2,2-Dichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
cis-1,3-Dichloropropene	ND		0.006	mg/kg	08/09/24	08/09/24
trans-1,3-Dichloropropene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1-Dichloropropene	ND		0.006	mg/kg	08/09/24	08/09/24
1,3-Dichloropropene (cis + trans)	ND		0.006	mg/kg	08/09/24	08/09/24
Diethyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
1,4-Dioxane	ND		0.121	mg/kg	08/09/24	08/09/24
Ethylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Hexachlorobutadiene	ND		0.006	mg/kg	08/09/24	08/09/24
2-Hexanone	ND		0.121	mg/kg	08/09/24	08/09/24
Isopropylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
p-Isopropyltoluene	ND		0.006	mg/kg	08/09/24	08/09/24

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

Sample: GP-8 (8-10') (Continued)

Lab Number: 4H07007-16 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		0.006	mg/kg	08/09/24	08/09/24
4-Methyl-2-pentanone	ND		0.121	mg/kg	08/09/24	08/09/24
Naphthalene	ND		0.006	mg/kg	08/09/24	08/09/24
n-Propylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Styrene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,1,2-Tetrachloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
Tetrachloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
Tetrahydrofuran	ND		0.006	mg/kg	08/09/24	08/09/24
Toluene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,4-Trichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,3-Trichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,2-Trichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,1-Trichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
Trichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,3-Trichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
1,3,5-Trimethylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,4-Trimethylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Vinyl Chloride	ND		0.006	mg/kg	08/09/24	08/09/24
o-Xylene	ND		0.006	mg/kg	08/09/24	08/09/24
m&p-Xylene	ND		0.012	mg/kg	08/09/24	08/09/24
Total xylenes	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,2,2-Tetrachloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
tert-Amyl methyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
1,3-Dichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
Ethyl tert-butyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
Diisopropyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
Trichlorofluoromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Dichlorodifluoromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	99.3%		70-130		08/09/24	08/09/24
1,2-Dichloroethane-d4	108%		70-130		08/09/24	08/09/24
Toluene-d8	100%		70-130		08/09/24	08/09/24

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

Sample: GP-9 (8-10')

Lab Number: 4H07007-18 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		0.121	mg/kg	08/09/24	08/09/24
Benzene	ND		0.006	mg/kg	08/09/24	08/09/24
Bromobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Bromochloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Bromodichloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Bromoform	ND		0.006	mg/kg	08/09/24	08/09/24
Bromomethane	ND		0.006	mg/kg	08/09/24	08/09/24
2-Butanone	ND		0.121	mg/kg	08/09/24	08/09/24
tert-Butyl alcohol	ND		0.006	mg/kg	08/09/24	08/09/24
sec-Butylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
n-Butylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
tert-Butylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Methyl t-butyl ether (MTBE)	ND		0.006	mg/kg	08/09/24	08/09/24
Carbon Disulfide	ND		0.006	mg/kg	08/09/24	08/09/24
Carbon Tetrachloride	ND		0.006	mg/kg	08/09/24	08/09/24
Chlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Chloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
Chloroform	ND		0.006	mg/kg	08/09/24	08/09/24
Chloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
4-Chlorotoluene	ND		0.006	mg/kg	08/09/24	08/09/24
2-Chlorotoluene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		0.006	mg/kg	08/09/24	08/09/24
Dibromochloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dibromoethane (EDB)	ND		0.006	mg/kg	08/09/24	08/09/24
Dibromomethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,3-Dichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,4-Dichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1-Dichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2 Dichloroethene, Total	ND		0.006	mg/kg	08/09/24	08/09/24
trans-1,2-Dichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
cis-1,2-Dichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1-Dichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
2,2-Dichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
cis-1,3-Dichloropropene	ND		0.006	mg/kg	08/09/24	08/09/24
trans-1,3-Dichloropropene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1-Dichloropropene	ND		0.006	mg/kg	08/09/24	08/09/24
1,3-Dichloropropene (cis + trans)	ND		0.006	mg/kg	08/09/24	08/09/24
Diethyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
1,4-Dioxane	ND		0.121	mg/kg	08/09/24	08/09/24
Ethylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Hexachlorobutadiene	ND		0.006	mg/kg	08/09/24	08/09/24
2-Hexanone	ND		0.121	mg/kg	08/09/24	08/09/24
Isopropylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
p-Isopropyltoluene	ND		0.006	mg/kg	08/09/24	08/09/24

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

Sample: GP-9 (8-10') (Continued)

Lab Number: 4H07007-18 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		0.006	mg/kg	08/09/24	08/09/24
4-Methyl-2-pentanone	ND		0.121	mg/kg	08/09/24	08/09/24
Naphthalene	ND		0.006	mg/kg	08/09/24	08/09/24
n-Propylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Styrene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,1,2-Tetrachloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
Tetrachloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
Tetrahydrofuran	ND		0.006	mg/kg	08/09/24	08/09/24
Toluene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,4-Trichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,3-Trichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,2-Trichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,1-Trichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
Trichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,3-Trichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
1,3,5-Trimethylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,4-Trimethylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Vinyl Chloride	ND		0.006	mg/kg	08/09/24	08/09/24
o-Xylene	ND		0.006	mg/kg	08/09/24	08/09/24
m&p-Xylene	ND		0.012	mg/kg	08/09/24	08/09/24
Total xylenes	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,2,2-Tetrachloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
tert-Amyl methyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
1,3-Dichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
Ethyl tert-butyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
Diisopropyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
Trichlorofluoromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Dichlorodifluoromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	100%		70-130		08/09/24	08/09/24
1,2-Dichloroethane-d4	104%		70-130		08/09/24	08/09/24
Toluene-d8	100%		70-130		08/09/24	08/09/24

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

Sample: GP-10 (4-6')

Lab Number: 4H07007-20 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		0.120	mg/kg	08/09/24	08/09/24
Benzene	ND		0.006	mg/kg	08/09/24	08/09/24
Bromobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Bromochloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Bromodichloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Bromoform	ND		0.006	mg/kg	08/09/24	08/09/24
Bromomethane	ND		0.006	mg/kg	08/09/24	08/09/24
2-Butanone	ND		0.120	mg/kg	08/09/24	08/09/24
tert-Butyl alcohol	ND		0.006	mg/kg	08/09/24	08/09/24
sec-Butylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
n-Butylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
tert-Butylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Methyl t-butyl ether (MTBE)	ND		0.006	mg/kg	08/09/24	08/09/24
Carbon Disulfide	ND		0.006	mg/kg	08/09/24	08/09/24
Carbon Tetrachloride	ND		0.006	mg/kg	08/09/24	08/09/24
Chlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Chloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
Chloroform	ND		0.006	mg/kg	08/09/24	08/09/24
Chloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
4-Chlorotoluene	ND		0.006	mg/kg	08/09/24	08/09/24
2-Chlorotoluene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		0.006	mg/kg	08/09/24	08/09/24
Dibromochloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dibromoethane (EDB)	ND		0.006	mg/kg	08/09/24	08/09/24
Dibromomethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,3-Dichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,4-Dichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1-Dichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2 Dichloroethene, Total	ND		0.006	mg/kg	08/09/24	08/09/24
trans-1,2-Dichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
cis-1,2-Dichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1-Dichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
2,2-Dichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
cis-1,3-Dichloropropene	ND		0.006	mg/kg	08/09/24	08/09/24
trans-1,3-Dichloropropene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1-Dichloropropene	ND		0.006	mg/kg	08/09/24	08/09/24
1,3-Dichloropropene (cis + trans)	ND		0.006	mg/kg	08/09/24	08/09/24
Diethyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
1,4-Dioxane	ND		0.120	mg/kg	08/09/24	08/09/24
Ethylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Hexachlorobutadiene	ND		0.006	mg/kg	08/09/24	08/09/24
2-Hexanone	ND		0.120	mg/kg	08/09/24	08/09/24
Isopropylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
p-Isopropyltoluene	ND		0.006	mg/kg	08/09/24	08/09/24

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

Sample: GP-10 (4-6') (Continued)

Lab Number: 4H07007-20 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		0.006	mg/kg	08/09/24	08/09/24
4-Methyl-2-pentanone	ND		0.120	mg/kg	08/09/24	08/09/24
Naphthalene	ND		0.006	mg/kg	08/09/24	08/09/24
n-Propylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Styrene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,1,2-Tetrachloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
Tetrachloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
Tetrahydrofuran	ND		0.006	mg/kg	08/09/24	08/09/24
Toluene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,4-Trichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,3-Trichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,2-Trichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,1-Trichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
Trichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,3-Trichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
1,3,5-Trimethylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,4-Trimethylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Vinyl Chloride	ND		0.006	mg/kg	08/09/24	08/09/24
o-Xylene	ND		0.006	mg/kg	08/09/24	08/09/24
m&p-Xylene	ND		0.012	mg/kg	08/09/24	08/09/24
Total xylenes	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,2,2-Tetrachloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
tert-Amyl methyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
1,3-Dichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
Ethyl tert-butyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
Diisopropyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
Trichlorofluoromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Dichlorodifluoromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	99.6%		70-130		08/09/24	08/09/24
1,2-Dichloroethane-d4	105%		70-130		08/09/24	08/09/24
Toluene-d8	98.5%		70-130		08/09/24	08/09/24

Results: Volatile Organic Compounds 8260C (5035-LL)**Sample: GP-11 (4-6')****Lab Number: 4H07007-22 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		0.114	mg/kg	08/09/24	08/09/24
Benzene	ND		0.006	mg/kg	08/09/24	08/09/24
Bromobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Bromochloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Bromodichloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Bromoform	ND		0.006	mg/kg	08/09/24	08/09/24
Bromomethane	ND		0.006	mg/kg	08/09/24	08/09/24
2-Butanone	ND		0.114	mg/kg	08/09/24	08/09/24
tert-Butyl alcohol	ND		0.006	mg/kg	08/09/24	08/09/24
sec-Butylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
n-Butylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
tert-Butylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Methyl t-butyl ether (MTBE)	ND		0.006	mg/kg	08/09/24	08/09/24
Carbon Disulfide	ND		0.006	mg/kg	08/09/24	08/09/24
Carbon Tetrachloride	ND		0.006	mg/kg	08/09/24	08/09/24
Chlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Chloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
Chloroform	ND		0.006	mg/kg	08/09/24	08/09/24
Chloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
4-Chlorotoluene	ND		0.006	mg/kg	08/09/24	08/09/24
2-Chlorotoluene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		0.006	mg/kg	08/09/24	08/09/24
Dibromochloromethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dibromoethane (EDB)	ND		0.006	mg/kg	08/09/24	08/09/24
Dibromomethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,3-Dichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,4-Dichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1-Dichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,2 Dichloroethene, Total	ND		0.006	mg/kg	08/09/24	08/09/24
trans-1,2-Dichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
cis-1,2-Dichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1-Dichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2-Dichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
2,2-Dichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
cis-1,3-Dichloropropene	ND		0.006	mg/kg	08/09/24	08/09/24
trans-1,3-Dichloropropene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1-Dichloropropene	ND		0.006	mg/kg	08/09/24	08/09/24
1,3-Dichloropropene (cis + trans)	ND		0.006	mg/kg	08/09/24	08/09/24
Diethyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
1,4-Dioxane	ND		0.114	mg/kg	08/09/24	08/09/24
Ethylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Hexachlorobutadiene	ND		0.006	mg/kg	08/09/24	08/09/24
2-Hexanone	ND		0.114	mg/kg	08/09/24	08/09/24
Isopropylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
p-Isopropyltoluene	ND		0.006	mg/kg	08/09/24	08/09/24

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

Sample: GP-11 (4-6') (Continued)

Lab Number: 4H07007-22 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		0.006	mg/kg	08/09/24	08/09/24
4-Methyl-2-pentanone	ND		0.114	mg/kg	08/09/24	08/09/24
Naphthalene	ND		0.006	mg/kg	08/09/24	08/09/24
n-Propylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Styrene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,1,2-Tetrachloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
Tetrachloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
Tetrahydrofuran	ND		0.006	mg/kg	08/09/24	08/09/24
Toluene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,4-Trichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,3-Trichlorobenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,2-Trichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,1-Trichloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
Trichloroethene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,3-Trichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
1,3,5-Trimethylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
1,2,4-Trimethylbenzene	ND		0.006	mg/kg	08/09/24	08/09/24
Vinyl Chloride	ND		0.006	mg/kg	08/09/24	08/09/24
o-Xylene	ND		0.006	mg/kg	08/09/24	08/09/24
m&p-Xylene	ND		0.011	mg/kg	08/09/24	08/09/24
Total xylenes	ND		0.006	mg/kg	08/09/24	08/09/24
1,1,2,2-Tetrachloroethane	ND		0.006	mg/kg	08/09/24	08/09/24
tert-Amyl methyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
1,3-Dichloropropane	ND		0.006	mg/kg	08/09/24	08/09/24
Ethyl tert-butyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
Diisopropyl ether	ND		0.006	mg/kg	08/09/24	08/09/24
Trichlorofluoromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Dichlorodifluoromethane	ND		0.006	mg/kg	08/09/24	08/09/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	100%		70-130		08/09/24	08/09/24
1,2-Dichloroethane-d4	107%		70-130		08/09/24	08/09/24
Toluene-d8	99.8%		70-130		08/09/24	08/09/24

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

Sample: GP-12 (8-10')
Lab Number: 4H07007-24 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		0.173	mg/kg	08/09/24	08/09/24
Benzene	ND		0.009	mg/kg	08/09/24	08/09/24
Bromobenzene	ND		0.009	mg/kg	08/09/24	08/09/24
Bromochloromethane	ND		0.009	mg/kg	08/09/24	08/09/24
Bromodichloromethane	ND		0.009	mg/kg	08/09/24	08/09/24
Bromoform	ND		0.009	mg/kg	08/09/24	08/09/24
Bromomethane	ND		0.009	mg/kg	08/09/24	08/09/24
2-Butanone	ND		0.173	mg/kg	08/09/24	08/09/24
tert-Butyl alcohol	ND		0.009	mg/kg	08/09/24	08/09/24
sec-Butylbenzene	ND		0.009	mg/kg	08/09/24	08/09/24
n-Butylbenzene	ND		0.009	mg/kg	08/09/24	08/09/24
tert-Butylbenzene	ND		0.009	mg/kg	08/09/24	08/09/24
Methyl t-butyl ether (MTBE)	ND		0.009	mg/kg	08/09/24	08/09/24
Carbon Disulfide	ND		0.009	mg/kg	08/09/24	08/09/24
Carbon Tetrachloride	ND		0.009	mg/kg	08/09/24	08/09/24
Chlorobenzene	ND		0.009	mg/kg	08/09/24	08/09/24
Chloroethane	ND		0.009	mg/kg	08/09/24	08/09/24
Chloroform	ND		0.009	mg/kg	08/09/24	08/09/24
Chloromethane	ND		0.009	mg/kg	08/09/24	08/09/24
4-Chlorotoluene	ND		0.009	mg/kg	08/09/24	08/09/24
2-Chlorotoluene	ND		0.009	mg/kg	08/09/24	08/09/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		0.009	mg/kg	08/09/24	08/09/24
Dibromochloromethane	ND		0.009	mg/kg	08/09/24	08/09/24
1,2-Dibromoethane (EDB)	ND		0.009	mg/kg	08/09/24	08/09/24
Dibromomethane	ND		0.009	mg/kg	08/09/24	08/09/24
1,2-Dichlorobenzene	ND		0.009	mg/kg	08/09/24	08/09/24
1,3-Dichlorobenzene	ND		0.009	mg/kg	08/09/24	08/09/24
1,4-Dichlorobenzene	ND		0.009	mg/kg	08/09/24	08/09/24
1,1-Dichloroethane	ND		0.009	mg/kg	08/09/24	08/09/24
1,2-Dichloroethane	ND		0.009	mg/kg	08/09/24	08/09/24
1,2 Dichloroethene, Total	ND		0.009	mg/kg	08/09/24	08/09/24
trans-1,2-Dichloroethene	ND		0.009	mg/kg	08/09/24	08/09/24
cis-1,2-Dichloroethene	ND		0.009	mg/kg	08/09/24	08/09/24
1,1-Dichloroethene	ND		0.009	mg/kg	08/09/24	08/09/24
1,2-Dichloropropane	ND		0.009	mg/kg	08/09/24	08/09/24
2,2-Dichloropropane	ND		0.009	mg/kg	08/09/24	08/09/24
cis-1,3-Dichloropropene	ND		0.009	mg/kg	08/09/24	08/09/24
trans-1,3-Dichloropropene	ND		0.009	mg/kg	08/09/24	08/09/24
1,1-Dichloropropene	ND		0.009	mg/kg	08/09/24	08/09/24
1,3-Dichloropropene (cis + trans)	ND		0.009	mg/kg	08/09/24	08/09/24
Diethyl ether	ND		0.009	mg/kg	08/09/24	08/09/24
1,4-Dioxane	ND		0.173	mg/kg	08/09/24	08/09/24
Ethylbenzene	ND		0.009	mg/kg	08/09/24	08/09/24
Hexachlorobutadiene	ND		0.009	mg/kg	08/09/24	08/09/24
2-Hexanone	ND		0.173	mg/kg	08/09/24	08/09/24
Isopropylbenzene	ND		0.009	mg/kg	08/09/24	08/09/24
p-Isopropyltoluene	ND		0.009	mg/kg	08/09/24	08/09/24

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

Sample: GP-12 (8-10') (Continued)

Lab Number: 4H07007-24 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		0.009	mg/kg	08/09/24	08/09/24
4-Methyl-2-pentanone	ND		0.173	mg/kg	08/09/24	08/09/24
Naphthalene	ND		0.009	mg/kg	08/09/24	08/09/24
n-Propylbenzene	ND		0.009	mg/kg	08/09/24	08/09/24
Styrene	ND		0.009	mg/kg	08/09/24	08/09/24
1,1,1,2-Tetrachloroethane	ND		0.009	mg/kg	08/09/24	08/09/24
Tetrachloroethene	ND		0.009	mg/kg	08/09/24	08/09/24
Tetrahydrofuran	ND		0.009	mg/kg	08/09/24	08/09/24
Toluene	ND		0.009	mg/kg	08/09/24	08/09/24
1,2,4-Trichlorobenzene	ND		0.009	mg/kg	08/09/24	08/09/24
1,2,3-Trichlorobenzene	ND		0.009	mg/kg	08/09/24	08/09/24
1,1,2-Trichloroethane	ND		0.009	mg/kg	08/09/24	08/09/24
1,1,1-Trichloroethane	ND		0.009	mg/kg	08/09/24	08/09/24
Trichloroethene	ND		0.009	mg/kg	08/09/24	08/09/24
1,2,3-Trichloropropane	ND		0.009	mg/kg	08/09/24	08/09/24
1,3,5-Trimethylbenzene	ND		0.009	mg/kg	08/09/24	08/09/24
1,2,4-Trimethylbenzene	ND		0.009	mg/kg	08/09/24	08/09/24
Vinyl Chloride	ND		0.009	mg/kg	08/09/24	08/09/24
o-Xylene	ND		0.009	mg/kg	08/09/24	08/09/24
m&p-Xylene	ND		0.017	mg/kg	08/09/24	08/09/24
Total xylenes	ND		0.009	mg/kg	08/09/24	08/09/24
1,1,2,2-Tetrachloroethane	ND		0.009	mg/kg	08/09/24	08/09/24
tert-Amyl methyl ether	ND		0.009	mg/kg	08/09/24	08/09/24
1,3-Dichloropropane	ND		0.009	mg/kg	08/09/24	08/09/24
Ethyl tert-butyl ether	ND		0.009	mg/kg	08/09/24	08/09/24
Diisopropyl ether	ND		0.009	mg/kg	08/09/24	08/09/24
Trichlorofluoromethane	ND		0.009	mg/kg	08/09/24	08/09/24
Dichlorodifluoromethane	ND		0.009	mg/kg	08/09/24	08/09/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	100%		70-130		08/09/24	08/09/24
1,2-Dichloroethane-d4	106%		70-130		08/09/24	08/09/24
Toluene-d8	98.1%		70-130		08/09/24	08/09/24

Results: Volatile Organic Compounds 8260C (5035-LL)**Sample: GP-13 (8-10')****Lab Number: 4H07007-26 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		0.107	mg/kg	08/12/24	08/12/24
Benzene	ND		0.005	mg/kg	08/12/24	08/12/24
Bromobenzene	ND		0.005	mg/kg	08/12/24	08/12/24
Bromochloromethane	ND		0.005	mg/kg	08/12/24	08/12/24
Bromodichloromethane	ND		0.005	mg/kg	08/12/24	08/12/24
Bromoform	ND		0.005	mg/kg	08/12/24	08/12/24
Bromomethane	ND		0.005	mg/kg	08/12/24	08/12/24
2-Butanone	ND		0.107	mg/kg	08/12/24	08/12/24
tert-Butyl alcohol	ND		0.005	mg/kg	08/12/24	08/12/24
sec-Butylbenzene	ND		0.005	mg/kg	08/12/24	08/12/24
n-Butylbenzene	ND		0.005	mg/kg	08/12/24	08/12/24
tert-Butylbenzene	ND		0.005	mg/kg	08/12/24	08/12/24
Methyl t-butyl ether (MTBE)	ND		0.005	mg/kg	08/12/24	08/12/24
Carbon Disulfide	ND		0.005	mg/kg	08/12/24	08/12/24
Carbon Tetrachloride	ND		0.005	mg/kg	08/12/24	08/12/24
Chlorobenzene	ND		0.005	mg/kg	08/12/24	08/12/24
Chloroethane	ND		0.005	mg/kg	08/12/24	08/12/24
Chloroform	ND		0.005	mg/kg	08/12/24	08/12/24
Chloromethane	ND		0.005	mg/kg	08/12/24	08/12/24
4-Chlorotoluene	ND		0.005	mg/kg	08/12/24	08/12/24
2-Chlorotoluene	ND		0.005	mg/kg	08/12/24	08/12/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		0.005	mg/kg	08/12/24	08/12/24
Dibromochloromethane	ND		0.005	mg/kg	08/12/24	08/12/24
1,2-Dibromoethane (EDB)	ND		0.005	mg/kg	08/12/24	08/12/24
Dibromomethane	ND		0.005	mg/kg	08/12/24	08/12/24
1,2-Dichlorobenzene	ND		0.005	mg/kg	08/12/24	08/12/24
1,3-Dichlorobenzene	ND		0.005	mg/kg	08/12/24	08/12/24
1,4-Dichlorobenzene	ND		0.005	mg/kg	08/12/24	08/12/24
1,1-Dichloroethane	ND		0.005	mg/kg	08/12/24	08/12/24
1,2-Dichloroethane	ND		0.005	mg/kg	08/12/24	08/12/24
1,2 Dichloroethene, Total	ND		0.005	mg/kg	08/12/24	08/12/24
trans-1,2-Dichloroethene	ND		0.005	mg/kg	08/12/24	08/12/24
cis-1,2-Dichloroethene	ND		0.005	mg/kg	08/12/24	08/12/24
1,1-Dichloroethene	ND		0.005	mg/kg	08/12/24	08/12/24
1,2-Dichloropropane	ND		0.005	mg/kg	08/12/24	08/12/24
2,2-Dichloropropane	ND		0.005	mg/kg	08/12/24	08/12/24
cis-1,3-Dichloropropene	ND		0.005	mg/kg	08/12/24	08/12/24
trans-1,3-Dichloropropene	ND		0.005	mg/kg	08/12/24	08/12/24
1,1-Dichloropropene	ND		0.005	mg/kg	08/12/24	08/12/24
1,3-Dichloropropene (cis + trans)	ND		0.005	mg/kg	08/12/24	08/12/24
Diethyl ether	ND		0.005	mg/kg	08/12/24	08/12/24
1,4-Dioxane	ND		0.107	mg/kg	08/12/24	08/12/24
Ethylbenzene	ND		0.005	mg/kg	08/12/24	08/12/24
Hexachlorobutadiene	ND		0.005	mg/kg	08/12/24	08/12/24
2-Hexanone	ND		0.107	mg/kg	08/12/24	08/12/24
Isopropylbenzene	ND		0.005	mg/kg	08/12/24	08/12/24
p-Isopropyltoluene	ND		0.005	mg/kg	08/12/24	08/12/24

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

Sample: GP-13 (8-10') (Continued)

Lab Number: 4H07007-26 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		0.005	mg/kg	08/12/24	08/12/24
4-Methyl-2-pentanone	ND		0.107	mg/kg	08/12/24	08/12/24
Naphthalene	ND		0.005	mg/kg	08/12/24	08/12/24
n-Propylbenzene	ND		0.005	mg/kg	08/12/24	08/12/24
Styrene	ND		0.005	mg/kg	08/12/24	08/12/24
1,1,1,2-Tetrachloroethane	ND		0.005	mg/kg	08/12/24	08/12/24
Tetrachloroethene	ND		0.005	mg/kg	08/12/24	08/12/24
Tetrahydrofuran	ND		0.005	mg/kg	08/12/24	08/12/24
Toluene	ND		0.005	mg/kg	08/12/24	08/12/24
1,2,4-Trichlorobenzene	ND		0.005	mg/kg	08/12/24	08/12/24
1,2,3-Trichlorobenzene	ND		0.005	mg/kg	08/12/24	08/12/24
1,1,2-Trichloroethane	ND		0.005	mg/kg	08/12/24	08/12/24
1,1,1-Trichloroethane	ND		0.005	mg/kg	08/12/24	08/12/24
Trichloroethene	ND		0.005	mg/kg	08/12/24	08/12/24
1,2,3-Trichloropropane	ND		0.005	mg/kg	08/12/24	08/12/24
1,3,5-Trimethylbenzene	ND		0.005	mg/kg	08/12/24	08/12/24
1,2,4-Trimethylbenzene	ND		0.005	mg/kg	08/12/24	08/12/24
Vinyl Chloride	ND		0.005	mg/kg	08/12/24	08/12/24
o-Xylene	ND		0.005	mg/kg	08/12/24	08/12/24
m&p-Xylene	ND		0.011	mg/kg	08/12/24	08/12/24
Total xylenes	ND		0.005	mg/kg	08/12/24	08/12/24
1,1,2,2-Tetrachloroethane	ND		0.005	mg/kg	08/12/24	08/12/24
tert-Amyl methyl ether	ND		0.005	mg/kg	08/12/24	08/12/24
1,3-Dichloropropane	ND		0.005	mg/kg	08/12/24	08/12/24
Ethyl tert-butyl ether	ND		0.005	mg/kg	08/12/24	08/12/24
Diisopropyl ether	ND		0.005	mg/kg	08/12/24	08/12/24
Trichlorofluoromethane	ND		0.005	mg/kg	08/12/24	08/12/24
Dichlorodifluoromethane	ND		0.005	mg/kg	08/12/24	08/12/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	101%		70-130		08/12/24	08/12/24
1,2-Dichloroethane-d4	106%		70-130		08/12/24	08/12/24
Toluene-d8	99.6%		70-130		08/12/24	08/12/24

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

Sample: GP-14 (8-10')

Lab Number: 4H07007-28 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		0.108	mg/kg	08/12/24	08/12/24
Benzene	ND		0.005	mg/kg	08/12/24	08/12/24
Bromobenzene	ND		0.005	mg/kg	08/12/24	08/12/24
Bromochloromethane	ND		0.005	mg/kg	08/12/24	08/12/24
Bromodichloromethane	ND		0.005	mg/kg	08/12/24	08/12/24
Bromoform	ND		0.005	mg/kg	08/12/24	08/12/24
Bromomethane	ND		0.005	mg/kg	08/12/24	08/12/24
2-Butanone	ND		0.108	mg/kg	08/12/24	08/12/24
tert-Butyl alcohol	ND		0.005	mg/kg	08/12/24	08/12/24
sec-Butylbenzene	ND		0.005	mg/kg	08/12/24	08/12/24
n-Butylbenzene	ND		0.005	mg/kg	08/12/24	08/12/24
tert-Butylbenzene	ND		0.005	mg/kg	08/12/24	08/12/24
Methyl t-butyl ether (MTBE)	ND		0.005	mg/kg	08/12/24	08/12/24
Carbon Disulfide	ND		0.005	mg/kg	08/12/24	08/12/24
Carbon Tetrachloride	ND		0.005	mg/kg	08/12/24	08/12/24
Chlorobenzene	ND		0.005	mg/kg	08/12/24	08/12/24
Chloroethane	ND		0.005	mg/kg	08/12/24	08/12/24
Chloroform	ND		0.005	mg/kg	08/12/24	08/12/24
Chloromethane	ND		0.005	mg/kg	08/12/24	08/12/24
4-Chlorotoluene	ND		0.005	mg/kg	08/12/24	08/12/24
2-Chlorotoluene	ND		0.005	mg/kg	08/12/24	08/12/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		0.005	mg/kg	08/12/24	08/12/24
Dibromochloromethane	ND		0.005	mg/kg	08/12/24	08/12/24
1,2-Dibromoethane (EDB)	ND		0.005	mg/kg	08/12/24	08/12/24
Dibromomethane	ND		0.005	mg/kg	08/12/24	08/12/24
1,2-Dichlorobenzene	ND		0.005	mg/kg	08/12/24	08/12/24
1,3-Dichlorobenzene	ND		0.005	mg/kg	08/12/24	08/12/24
1,4-Dichlorobenzene	ND		0.005	mg/kg	08/12/24	08/12/24
1,1-Dichloroethane	ND		0.005	mg/kg	08/12/24	08/12/24
1,2-Dichloroethane	ND		0.005	mg/kg	08/12/24	08/12/24
1,2 Dichloroethene, Total	ND		0.005	mg/kg	08/12/24	08/12/24
trans-1,2-Dichloroethene	ND		0.005	mg/kg	08/12/24	08/12/24
cis-1,2-Dichloroethene	ND		0.005	mg/kg	08/12/24	08/12/24
1,1-Dichloroethene	ND		0.005	mg/kg	08/12/24	08/12/24
1,2-Dichloropropane	ND		0.005	mg/kg	08/12/24	08/12/24
2,2-Dichloropropane	ND		0.005	mg/kg	08/12/24	08/12/24
cis-1,3-Dichloropropene	ND		0.005	mg/kg	08/12/24	08/12/24
trans-1,3-Dichloropropene	ND		0.005	mg/kg	08/12/24	08/12/24
1,1-Dichloropropene	ND		0.005	mg/kg	08/12/24	08/12/24
1,3-Dichloropropene (cis + trans)	ND		0.005	mg/kg	08/12/24	08/12/24
Diethyl ether	ND		0.005	mg/kg	08/12/24	08/12/24
1,4-Dioxane	ND		0.108	mg/kg	08/12/24	08/12/24
Ethylbenzene	ND		0.005	mg/kg	08/12/24	08/12/24
Hexachlorobutadiene	ND		0.005	mg/kg	08/12/24	08/12/24
2-Hexanone	ND		0.108	mg/kg	08/12/24	08/12/24
Isopropylbenzene	ND		0.005	mg/kg	08/12/24	08/12/24
p-Isopropyltoluene	ND		0.005	mg/kg	08/12/24	08/12/24

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

Sample: GP-14 (8-10') (Continued)

Lab Number: 4H07007-28 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		0.005	mg/kg	08/12/24	08/12/24
4-Methyl-2-pentanone	ND		0.108	mg/kg	08/12/24	08/12/24
Naphthalene	ND		0.005	mg/kg	08/12/24	08/12/24
n-Propylbenzene	ND		0.005	mg/kg	08/12/24	08/12/24
Styrene	ND		0.005	mg/kg	08/12/24	08/12/24
1,1,1,2-Tetrachloroethane	ND		0.005	mg/kg	08/12/24	08/12/24
Tetrachloroethene	ND		0.005	mg/kg	08/12/24	08/12/24
Tetrahydrofuran	ND		0.005	mg/kg	08/12/24	08/12/24
Toluene	ND		0.005	mg/kg	08/12/24	08/12/24
1,2,4-Trichlorobenzene	ND		0.005	mg/kg	08/12/24	08/12/24
1,2,3-Trichlorobenzene	ND		0.005	mg/kg	08/12/24	08/12/24
1,1,2-Trichloroethane	ND		0.005	mg/kg	08/12/24	08/12/24
1,1,1-Trichloroethane	ND		0.005	mg/kg	08/12/24	08/12/24
Trichloroethene	ND		0.005	mg/kg	08/12/24	08/12/24
1,2,3-Trichloropropane	ND		0.005	mg/kg	08/12/24	08/12/24
1,3,5-Trimethylbenzene	ND		0.005	mg/kg	08/12/24	08/12/24
1,2,4-Trimethylbenzene	ND		0.005	mg/kg	08/12/24	08/12/24
Vinyl Chloride	ND		0.005	mg/kg	08/12/24	08/12/24
o-Xylene	ND		0.005	mg/kg	08/12/24	08/12/24
m&p-Xylene	ND		0.011	mg/kg	08/12/24	08/12/24
Total xylenes	ND		0.005	mg/kg	08/12/24	08/12/24
1,1,2,2-Tetrachloroethane	ND		0.005	mg/kg	08/12/24	08/12/24
tert-Amyl methyl ether	ND		0.005	mg/kg	08/12/24	08/12/24
1,3-Dichloropropane	ND		0.005	mg/kg	08/12/24	08/12/24
Ethyl tert-butyl ether	ND		0.005	mg/kg	08/12/24	08/12/24
Diisopropyl ether	ND		0.005	mg/kg	08/12/24	08/12/24
Trichlorofluoromethane	ND		0.005	mg/kg	08/12/24	08/12/24
Dichlorodifluoromethane	ND		0.005	mg/kg	08/12/24	08/12/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	101%		70-130		08/12/24	08/12/24
1,2-Dichloroethane-d4	106%		70-130		08/12/24	08/12/24
Toluene-d8	98.3%		70-130		08/12/24	08/12/24

Results: Volatile Organic Compounds 8260C (5035-LL)**Sample: GP-15 (8-10')****Lab Number: 4H07007-30 (Soil)**

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Acetone	ND		0.114	mg/kg	08/12/24	08/12/24
Benzene	ND		0.006	mg/kg	08/12/24	08/12/24
Bromobenzene	ND		0.006	mg/kg	08/12/24	08/12/24
Bromochloromethane	ND		0.006	mg/kg	08/12/24	08/12/24
Bromodichloromethane	ND		0.006	mg/kg	08/12/24	08/12/24
Bromoform	ND		0.006	mg/kg	08/12/24	08/12/24
Bromomethane	ND		0.006	mg/kg	08/12/24	08/12/24
2-Butanone	ND		0.114	mg/kg	08/12/24	08/12/24
tert-Butyl alcohol	ND		0.006	mg/kg	08/12/24	08/12/24
sec-Butylbenzene	ND		0.006	mg/kg	08/12/24	08/12/24
n-Butylbenzene	ND		0.006	mg/kg	08/12/24	08/12/24
tert-Butylbenzene	ND		0.006	mg/kg	08/12/24	08/12/24
Methyl t-butyl ether (MTBE)	ND		0.006	mg/kg	08/12/24	08/12/24
Carbon Disulfide	ND		0.006	mg/kg	08/12/24	08/12/24
Carbon Tetrachloride	ND		0.006	mg/kg	08/12/24	08/12/24
Chlorobenzene	ND		0.006	mg/kg	08/12/24	08/12/24
Chloroethane	ND		0.006	mg/kg	08/12/24	08/12/24
Chloroform	ND		0.006	mg/kg	08/12/24	08/12/24
Chloromethane	ND		0.006	mg/kg	08/12/24	08/12/24
4-Chlorotoluene	ND		0.006	mg/kg	08/12/24	08/12/24
2-Chlorotoluene	ND		0.006	mg/kg	08/12/24	08/12/24
1,2-Dibromo-3-chloropropane (DBCP)	ND		0.006	mg/kg	08/12/24	08/12/24
Dibromochloromethane	ND		0.006	mg/kg	08/12/24	08/12/24
1,2-Dibromoethane (EDB)	ND		0.006	mg/kg	08/12/24	08/12/24
Dibromomethane	ND		0.006	mg/kg	08/12/24	08/12/24
1,2-Dichlorobenzene	ND		0.006	mg/kg	08/12/24	08/12/24
1,3-Dichlorobenzene	ND		0.006	mg/kg	08/12/24	08/12/24
1,4-Dichlorobenzene	ND		0.006	mg/kg	08/12/24	08/12/24
1,1-Dichloroethane	ND		0.006	mg/kg	08/12/24	08/12/24
1,2-Dichloroethane	ND		0.006	mg/kg	08/12/24	08/12/24
1,2 Dichloroethene, Total	ND		0.006	mg/kg	08/12/24	08/12/24
trans-1,2-Dichloroethene	ND		0.006	mg/kg	08/12/24	08/12/24
cis-1,2-Dichloroethene	ND		0.006	mg/kg	08/12/24	08/12/24
1,1-Dichloroethene	ND		0.006	mg/kg	08/12/24	08/12/24
1,2-Dichloropropane	ND		0.006	mg/kg	08/12/24	08/12/24
2,2-Dichloropropane	ND		0.006	mg/kg	08/12/24	08/12/24
cis-1,3-Dichloropropene	ND		0.006	mg/kg	08/12/24	08/12/24
trans-1,3-Dichloropropene	ND		0.006	mg/kg	08/12/24	08/12/24
1,1-Dichloropropene	ND		0.006	mg/kg	08/12/24	08/12/24
1,3-Dichloropropene (cis + trans)	ND		0.006	mg/kg	08/12/24	08/12/24
Diethyl ether	ND		0.006	mg/kg	08/12/24	08/12/24
1,4-Dioxane	ND		0.114	mg/kg	08/12/24	08/12/24
Ethylbenzene	ND		0.006	mg/kg	08/12/24	08/12/24
Hexachlorobutadiene	ND		0.006	mg/kg	08/12/24	08/12/24
2-Hexanone	ND		0.114	mg/kg	08/12/24	08/12/24
Isopropylbenzene	ND		0.006	mg/kg	08/12/24	08/12/24
p-Isopropyltoluene	ND		0.006	mg/kg	08/12/24	08/12/24

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

Sample: GP-15 (8-10') (Continued)

Lab Number: 4H07007-30 (Soil)

Analyte	Result	Qual	Reporting Limit	Units	Date Prepared	Date Analyzed
Methylene Chloride	ND		0.006	mg/kg	08/12/24	08/12/24
4-Methyl-2-pentanone	ND		0.114	mg/kg	08/12/24	08/12/24
Naphthalene	ND		0.006	mg/kg	08/12/24	08/12/24
n-Propylbenzene	ND		0.006	mg/kg	08/12/24	08/12/24
Styrene	ND		0.006	mg/kg	08/12/24	08/12/24
1,1,1,2-Tetrachloroethane	ND		0.006	mg/kg	08/12/24	08/12/24
Tetrachloroethene	ND		0.006	mg/kg	08/12/24	08/12/24
Tetrahydrofuran	ND		0.006	mg/kg	08/12/24	08/12/24
Toluene	ND		0.006	mg/kg	08/12/24	08/12/24
1,2,4-Trichlorobenzene	ND		0.006	mg/kg	08/12/24	08/12/24
1,2,3-Trichlorobenzene	ND		0.006	mg/kg	08/12/24	08/12/24
1,1,2-Trichloroethane	ND		0.006	mg/kg	08/12/24	08/12/24
1,1,1-Trichloroethane	ND		0.006	mg/kg	08/12/24	08/12/24
Trichloroethene	ND		0.006	mg/kg	08/12/24	08/12/24
1,2,3-Trichloropropane	ND		0.006	mg/kg	08/12/24	08/12/24
1,3,5-Trimethylbenzene	ND		0.006	mg/kg	08/12/24	08/12/24
1,2,4-Trimethylbenzene	ND		0.006	mg/kg	08/12/24	08/12/24
Vinyl Chloride	ND		0.006	mg/kg	08/12/24	08/12/24
o-Xylene	ND		0.006	mg/kg	08/12/24	08/12/24
m&p-Xylene	ND		0.011	mg/kg	08/12/24	08/12/24
Total xylenes	ND		0.006	mg/kg	08/12/24	08/12/24
1,1,2,2-Tetrachloroethane	ND		0.006	mg/kg	08/12/24	08/12/24
tert-Amyl methyl ether	ND		0.006	mg/kg	08/12/24	08/12/24
1,3-Dichloropropane	ND		0.006	mg/kg	08/12/24	08/12/24
Ethyl tert-butyl ether	ND		0.006	mg/kg	08/12/24	08/12/24
Diisopropyl ether	ND		0.006	mg/kg	08/12/24	08/12/24
Trichlorofluoromethane	ND		0.006	mg/kg	08/12/24	08/12/24
Dichlorodifluoromethane	ND		0.006	mg/kg	08/12/24	08/12/24
Surrogate(s)	Recovery%		Limits			
4-Bromofluorobenzene	101%		70-130		08/12/24	08/12/24
1,2-Dichloroethane-d4	106%		70-130		08/12/24	08/12/24
Toluene-d8	100%		70-130		08/12/24	08/12/24

Volatile Petroleum Hydrocarbons
Sample: GP-1 (4-5') (4H07007-02)

SAMPLE INFORMATION

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

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1	Client ID		GP-1 (4-5')			
Method for Target Analytes: EPA Method 8260C	Lab ID		4H07007-02			
VPH Surrogate Standards: PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene	Date Collected		08/05/24			
	Date Received		08/07/24			
	% Moisture		4.80			
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	12.9	mg/kg	<12.9	08/08/24 17:07
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	16.1	mg/kg	<16.1	08/08/24 17:07
Benzene	C5-C8	50X	0.3	mg/kg	<0.3	08/08/24 17:07
Ethylbenzene	C9-C12	50X	0.3	mg/kg	<0.3	08/08/24 17:07
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.06	mg/kg	<0.06	08/08/24 17:07
Naphthalene	NA	50X	0.6	mg/kg	<0.6	08/08/24 17:07
Toluene	C5-C8	50X	0.3	mg/kg	<0.3	08/08/24 17:07
m&p-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	08/08/24 17:07
o-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	08/08/24 17:07
Total xylenes		50X	0.6	mg/kg	<0.6	08/08/24 17:07
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	12.9	mg/kg	<12.9	08/08/24 17:07
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	16.1	mg/kg	<16.1	08/08/24 17:07
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	16.1	mg/kg	<16.1	08/08/24 17:07
2,5-Dibromotoluene-PID				%	96.4	08/08/24 17:07
2,5-Dibromotoluene-FID				%	103	08/08/24 17:07
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: GP-2 (4-5') (4H07007-04)

SAMPLE INFORMATION

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

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1	Client ID		GP-2 (4-5')			
Method for Target Analytes: EPA Method 8260C	Lab ID		4H07007-04			
VPH Surrogate Standards: PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene	Date Collected		08/05/24			
	Date Received		08/07/24			
	% Moisture		12.60			
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	16.0	mg/kg	<16.0	08/08/24 17:40
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	20.0	mg/kg	<20.0	08/08/24 17:40
Benzene	C5-C8	50X	0.4	mg/kg	<0.4	08/08/24 17:40
Ethylbenzene	C9-C12	50X	0.4	mg/kg	<0.4	08/08/24 17:40
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.08	mg/kg	<0.08	08/08/24 17:40
Naphthalene	NA	50X	0.8	mg/kg	<0.8	08/08/24 17:40
Toluene	C5-C8	50X	0.4	mg/kg	<0.4	08/08/24 17:40
m&p-Xylene	C9-C12	50X	0.8	mg/kg	<0.8	08/08/24 17:40
o-Xylene	C9-C12	50X	0.8	mg/kg	<0.8	08/08/24 17:40
Total xylenes		50X	0.8	mg/kg	<0.8	08/08/24 17:40
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	16.0	mg/kg	<16.0	08/08/24 17:40
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	20.0	mg/kg	<20.0	08/08/24 17:40
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	20.0	mg/kg	<20.0	08/08/24 17:40
2,5-Dibromotoluene-PID				%	95.6	08/08/24 17:40
2,5-Dibromotoluene-FID				%	102	08/08/24 17:40
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: GP-3 (5-6') (4H07007-06)

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	
	ml methanol per gram soil: 1:1 +/- 25%		
Temperature	Received on Ice Received at: 4+/-2 C°		

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1	Client ID		GP-3 (5-6')			
Method for Target Analytes: EPA Method 8260C	Lab ID		4H07007-06			
VPH Surrogate Standards: PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene	Date Collected		08/05/24			
	Date Received		08/07/24			
	% Moisture		6.70			
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	12.4	mg/kg	<12.4	08/08/24 18:13
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	15.6	mg/kg	<15.6	08/08/24 18:13
Benzene	C5-C8	50X	0.3	mg/kg	<0.3	08/08/24 18:13
Ethylbenzene	C9-C12	50X	0.3	mg/kg	<0.3	08/08/24 18:13
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.06	mg/kg	<0.06	08/08/24 18:13
Naphthalene	NA	50X	0.6	mg/kg	<0.6	08/08/24 18:13
Toluene	C5-C8	50X	0.3	mg/kg	<0.3	08/08/24 18:13
m&p-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	08/08/24 18:13
o-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	08/08/24 18:13
Total xylenes		50X	0.6	mg/kg	<0.6	08/08/24 18:13
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	12.4	mg/kg	<12.4	08/08/24 18:13
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	15.6	mg/kg	<15.6	08/08/24 18:13
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	15.6	mg/kg	<15.6	08/08/24 18:13
2,5-Dibromotoluene-PID				%	97.3	08/08/24 18:13
2,5-Dibromotoluene-FID				%	103	08/08/24 18:13
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: GP-4 (5-6') (4H07007-08)

SAMPLE INFORMATION

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

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1	Client ID		GP-4 (5-6')			
Method for Target Analytes: EPA Method 8260C	Lab ID		4H07007-08			
VPH Surrogate Standards: PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene	Date Collected		08/05/24			
	Date Received		08/07/24			
	% Moisture		3.70			
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	12.5	mg/kg	<12.5	08/08/24 18:46
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	15.6	mg/kg	<15.6	08/08/24 18:46
Benzene	C5-C8	50X	0.3	mg/kg	<0.3	08/08/24 18:46
Ethylbenzene	C9-C12	50X	0.3	mg/kg	<0.3	08/08/24 18:46
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.06	mg/kg	<0.06	08/08/24 18:46
Naphthalene	NA	50X	0.6	mg/kg	<0.6	08/08/24 18:46
Toluene	C5-C8	50X	0.3	mg/kg	<0.3	08/08/24 18:46
m&p-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	08/08/24 18:46
o-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	08/08/24 18:46
Total xylenes		50X	0.6	mg/kg	<0.6	08/08/24 18:46
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	12.5	mg/kg	<12.5	08/08/24 18:46
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	15.6	mg/kg	<15.6	08/08/24 18:46
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	15.6	mg/kg	<15.6	08/08/24 18:46
2,5-Dibromotoluene-PID				%	97.4	08/08/24 18:46
2,5-Dibromotoluene-FID				%	103	08/08/24 18:46
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: GP-5 (5-6') (4H07007-10)

SAMPLE INFORMATION

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

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1	Client ID		GP-5 (5-6')			
Method for Target Analytes: EPA Method 8260C	Lab ID		4H07007-10			
VPH Surrogate Standards: PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene	Date Collected		08/05/24			
	Date Received		08/07/24			
	% Moisture		5.50			
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	13.0	mg/kg	<13.0	08/08/24 19:18
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	16.2	mg/kg	<16.2	08/08/24 19:18
Benzene	C5-C8	50X	0.3	mg/kg	<0.3	08/08/24 19:18
Ethylbenzene	C9-C12	50X	0.3	mg/kg	<0.3	08/08/24 19:18
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.06	mg/kg	<0.06	08/08/24 19:18
Naphthalene	NA	50X	0.6	mg/kg	<0.6	08/08/24 19:18
Toluene	C5-C8	50X	0.3	mg/kg	<0.3	08/08/24 19:18
m&p-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	08/08/24 19:18
o-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	08/08/24 19:18
Total xylenes		50X	0.6	mg/kg	<0.6	08/08/24 19:18
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	13.0	mg/kg	<13.0	08/08/24 19:18
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	16.2	mg/kg	<16.2	08/08/24 19:18
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	16.2	mg/kg	<16.2	08/08/24 19:18
2,5-Dibromotoluene-PID				%	94.9	08/08/24 19:18
2,5-Dibromotoluene-FID				%	98.3	08/08/24 19:18
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: GP-6 (13-15') (4H07007-12)

SAMPLE INFORMATION

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

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1	Client ID		GP-6 (13-15')			
Method for Target Analytes: EPA Method 8260C	Lab ID		4H07007-12			
VPH Surrogate Standards: PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene	Date Collected		08/05/24			
	Date Received		08/07/24			
	% Moisture		14.70			
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	16.0	mg/kg	<16.0	08/08/24 19:50
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	20.0	mg/kg	<20.0	08/08/24 19:50
Benzene	C5-C8	50X	0.4	mg/kg	<0.4	08/08/24 19:50
Ethylbenzene	C9-C12	50X	0.4	mg/kg	<0.4	08/08/24 19:50
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.08	mg/kg	<0.08	08/08/24 19:50
Naphthalene	NA	50X	0.8	mg/kg	<0.8	08/08/24 19:50
Toluene	C5-C8	50X	0.4	mg/kg	<0.4	08/08/24 19:50
m&p-Xylene	C9-C12	50X	0.8	mg/kg	<0.8	08/08/24 19:50
o-Xylene	C9-C12	50X	0.8	mg/kg	<0.8	08/08/24 19:50
Total xylenes		50X	0.8	mg/kg	<0.8	08/08/24 19:50
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	16.0	mg/kg	<16.0	08/08/24 19:50
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	20.0	mg/kg	<20.0	08/08/24 19:50
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	20.0	mg/kg	<20.0	08/08/24 19:50
2,5-Dibromotoluene-PID				%	94.8	08/08/24 19:50
2,5-Dibromotoluene-FID				%	97.8	08/08/24 19:50
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: GP-7 (13-15') (4H07007-14)

SAMPLE INFORMATION

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

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1	Client ID		GP-7 (13-15')			
Method for Target Analytes: EPA Method 8260C	Lab ID		4H07007-14			
VPH Surrogate Standards: PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene	Date Collected		08/05/24			
	Date Received		08/07/24			
	% Moisture		15.80			
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	13.0	mg/kg	<13.0	08/08/24 20:24
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	16.2	mg/kg	<16.2	08/08/24 20:24
Benzene	C5-C8	50X	0.3	mg/kg	<0.3	08/08/24 20:24
Ethylbenzene	C9-C12	50X	0.3	mg/kg	<0.3	08/08/24 20:24
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.06	mg/kg	<0.06	08/08/24 20:24
Naphthalene	NA	50X	0.6	mg/kg	<0.6	08/08/24 20:24
Toluene	C5-C8	50X	0.3	mg/kg	<0.3	08/08/24 20:24
m&p-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	08/08/24 20:24
o-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	08/08/24 20:24
Total xylenes		50X	0.6	mg/kg	<0.6	08/08/24 20:24
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	13.0	mg/kg	<13.0	08/08/24 20:24
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	16.2	mg/kg	<16.2	08/08/24 20:24
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	16.2	mg/kg	<16.2	08/08/24 20:24
2,5-Dibromotoluene-PID				%	95.0	08/08/24 20:24
2,5-Dibromotoluene-FID				%	100	08/08/24 20:24
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: GP-8 (8-10') (4H07007-16)

SAMPLE INFORMATION

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

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1	Client ID		GP-8 (8-10')			
Method for Target Analytes: EPA Method 8260C	Lab ID		4H07007-16			
VPH Surrogate Standards: PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene	Date Collected		08/05/24			
	Date Received		08/07/24			
	% Moisture		8.40			
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	12.6	mg/kg	<12.6	08/08/24 20:57
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	15.7	mg/kg	<15.7	08/08/24 20:57
Benzene	C5-C8	50X	0.3	mg/kg	<0.3	08/08/24 20:57
Ethylbenzene	C9-C12	50X	0.3	mg/kg	<0.3	08/08/24 20:57
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.06	mg/kg	<0.06	08/08/24 20:57
Naphthalene	NA	50X	0.6	mg/kg	<0.6	08/08/24 20:57
Toluene	C5-C8	50X	0.3	mg/kg	<0.3	08/08/24 20:57
m&p-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	08/08/24 20:57
o-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	08/08/24 20:57
Total xylenes		50X	0.6	mg/kg	<0.6	08/08/24 20:57
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	12.6	mg/kg	<12.6	08/08/24 20:57
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	15.7	mg/kg	<15.7	08/08/24 20:57
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	15.7	mg/kg	<15.7	08/08/24 20:57
2,5-Dibromotoluene-PID				%	95.4	08/08/24 20:57
2,5-Dibromotoluene-FID				%	101	08/08/24 20:57
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: GP-9 (8-10') (4H07007-18)

SAMPLE INFORMATION

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

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1	Client ID		GP-9 (8-10')			
Method for Target Analytes: EPA Method 8260C	Lab ID		4H07007-18			
VPH Surrogate Standards: PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene	Date Collected		08/05/24			
	Date Received		08/07/24			
	% Moisture		14.70			
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	14.9	mg/kg	<14.9	08/08/24 21:30
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	18.6	mg/kg	<18.6	08/08/24 21:30
Benzene	C5-C8	50X	0.4	mg/kg	<0.4	08/08/24 21:30
Ethylbenzene	C9-C12	50X	0.4	mg/kg	<0.4	08/08/24 21:30
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.07	mg/kg	<0.07	08/08/24 21:30
Naphthalene	NA	50X	0.7	mg/kg	<0.7	08/08/24 21:30
Toluene	C5-C8	50X	0.4	mg/kg	<0.4	08/08/24 21:30
m&p-Xylene	C9-C12	50X	0.7	mg/kg	<0.7	08/08/24 21:30
o-Xylene	C9-C12	50X	0.7	mg/kg	<0.7	08/08/24 21:30
Total xylenes		50X	0.7	mg/kg	<0.7	08/08/24 21:30
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	14.9	mg/kg	<14.9	08/08/24 21:30
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	18.6	mg/kg	<18.6	08/08/24 21:30
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	18.6	mg/kg	<18.6	08/08/24 21:30
2,5-Dibromotoluene-PID				%	99.9	08/08/24 21:30
2,5-Dibromotoluene-FID				%	102	08/08/24 21:30
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: GP-10 (4-6') (4H07007-20)

SAMPLE INFORMATION

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

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1	Client ID			GP-10 (4-6')		
Method for Target Analytes: EPA Method 8260C	Lab ID			4H07007-20		
VPH Surrogate Standards: PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene	Date Collected			08/05/24		
	Date Received			08/07/24		
	% Moisture			18.90		
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	17.5	mg/kg	<17.5	08/08/24 22:02
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	21.9	mg/kg	<21.9	08/08/24 22:02
Benzene	C5-C8	50X	0.4	mg/kg	<0.4	08/08/24 22:02
Ethylbenzene	C9-C12	50X	0.4	mg/kg	<0.4	08/08/24 22:02
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.09	mg/kg	<0.09	08/08/24 22:02
Naphthalene	NA	50X	0.9	mg/kg	<0.9	08/08/24 22:02
Toluene	C5-C8	50X	0.4	mg/kg	<0.4	08/08/24 22:02
m&p-Xylene	C9-C12	50X	0.9	mg/kg	<0.9	08/08/24 22:02
o-Xylene	C9-C12	50X	0.9	mg/kg	<0.9	08/08/24 22:02
Total xylenes		50X	0.9	mg/kg	<0.9	08/08/24 22:02
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	17.5	mg/kg	<17.5	08/08/24 22:02
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	21.9	mg/kg	<21.9	08/08/24 22:02
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	21.9	mg/kg	<21.9	08/08/24 22:02
2,5-Dibromotoluene-PID				%	94.1	08/08/24 22:02
2,5-Dibromotoluene-FID				%	102	08/08/24 22:02
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: GP-11 (4-6') (4H07007-22)

SAMPLE INFORMATION

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

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1	Client ID		GP-11 (4-6')			
Method for Target Analytes: EPA Method 8260C	Lab ID		4H07007-22			
VPH Surrogate Standards: PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene	Date Collected		08/05/24			
	Date Received		08/07/24			
	% Moisture		13.40			
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	14.0	mg/kg	<14.0	08/08/24 22:35
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	17.5	mg/kg	<17.5	08/08/24 22:35
Benzene	C5-C8	50X	0.3	mg/kg	<0.3	08/08/24 22:35
Ethylbenzene	C9-C12	50X	0.3	mg/kg	<0.3	08/08/24 22:35
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.07	mg/kg	<0.07	08/08/24 22:35
Naphthalene	NA	50X	0.7	mg/kg	<0.7	08/08/24 22:35
Toluene	C5-C8	50X	0.3	mg/kg	<0.3	08/08/24 22:35
m&p-Xylene	C9-C12	50X	0.7	mg/kg	<0.7	08/08/24 22:35
o-Xylene	C9-C12	50X	0.7	mg/kg	<0.7	08/08/24 22:35
Total xylenes		50X	0.7	mg/kg	<0.7	08/08/24 22:35
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	14.0	mg/kg	<14.0	08/08/24 22:35
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	17.5	mg/kg	<17.5	08/08/24 22:35
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	17.5	mg/kg	<17.5	08/08/24 22:35
2,5-Dibromotoluene-PID				%	91.9	08/08/24 22:35
2,5-Dibromotoluene-FID				%	96.9	08/08/24 22:35
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: GP-12 (8-10') (4H07007-24)

SAMPLE INFORMATION

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

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1	Client ID			GP-12 (8-10')		
Method for Target Analytes: EPA Method 8260C	Lab ID			4H07007-24		
VPH Surrogate Standards: PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene	Date Collected			08/05/24		
	Date Received			08/07/24		
	% Moisture			5.60		
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	12.8	mg/kg	<12.8	08/08/24 23:08
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	16.0	mg/kg	<16.0	08/08/24 23:08
Benzene	C5-C8	50X	0.3	mg/kg	<0.3	08/08/24 23:08
Ethylbenzene	C9-C12	50X	0.3	mg/kg	<0.3	08/08/24 23:08
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.06	mg/kg	<0.06	08/08/24 23:08
Naphthalene	NA	50X	0.6	mg/kg	<0.6	08/08/24 23:08
Toluene	C5-C8	50X	0.3	mg/kg	<0.3	08/08/24 23:08
m&p-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	08/08/24 23:08
o-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	08/08/24 23:08
Total xylenes		50X	0.6	mg/kg	<0.6	08/08/24 23:08
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	12.8	mg/kg	<12.8	08/08/24 23:08
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	16.0	mg/kg	<16.0	08/08/24 23:08
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	16.0	mg/kg	<16.0	08/08/24 23:08
2,5-Dibromotoluene-PID				%	97.8	08/08/24 23:08
2,5-Dibromotoluene-FID				%	103	08/08/24 23:08
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: GP-13 (8-10') (4H07007-26)

SAMPLE INFORMATION

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

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1	Client ID		GP-13 (8-10')			
Method for Target Analytes: EPA Method 8260C	Lab ID		4H07007-26			
VPH Surrogate Standards: PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene	Date Collected		08/05/24			
	Date Received		08/07/24			
	% Moisture		7.60			
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	12.7	mg/kg	<12.7	08/08/24 23:41
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	15.8	mg/kg	<15.8	08/08/24 23:41
Benzene	C5-C8	50X	0.3	mg/kg	<0.3	08/08/24 23:41
Ethylbenzene	C9-C12	50X	0.3	mg/kg	<0.3	08/08/24 23:41
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.06	mg/kg	<0.06	08/08/24 23:41
Naphthalene	NA	50X	0.6	mg/kg	<0.6	08/08/24 23:41
Toluene	C5-C8	50X	0.3	mg/kg	<0.3	08/08/24 23:41
m&p-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	08/08/24 23:41
o-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	08/08/24 23:41
Total xylenes		50X	0.6	mg/kg	<0.6	08/08/24 23:41
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	12.7	mg/kg	<12.7	08/08/24 23:41
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	15.8	mg/kg	<15.8	08/08/24 23:41
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	15.8	mg/kg	<15.8	08/08/24 23:41
2,5-Dibromotoluene-PID				%	97.5	08/08/24 23:41
2,5-Dibromotoluene-FID				%	102	08/08/24 23:41
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: GP-14 (8-10') (4H07007-28)

SAMPLE INFORMATION

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

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1	Client ID			GP-14 (8-10')		
Method for Target Analytes: EPA Method 8260C	Lab ID			4H07007-28		
VPH Surrogate Standards: PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene	Date Collected			08/05/24		
	Date Received			08/07/24		
	% Moisture			5.10		
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	11.4	mg/kg	<11.4	08/09/24 00:14
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	14.3	mg/kg	<14.3	08/09/24 00:14
Benzene	C5-C8	50X	0.3	mg/kg	<0.3	08/09/24 00:14
Ethylbenzene	C9-C12	50X	0.3	mg/kg	<0.3	08/09/24 00:14
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.06	mg/kg	<0.06	08/09/24 00:14
Naphthalene	NA	50X	0.6	mg/kg	<0.6	08/09/24 00:14
Toluene	C5-C8	50X	0.3	mg/kg	<0.3	08/09/24 00:14
m&p-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	08/09/24 00:14
o-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	08/09/24 00:14
Total xylenes		50X	0.6	mg/kg	<0.6	08/09/24 00:14
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	11.4	mg/kg	<11.4	08/09/24 00:14
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	14.3	mg/kg	<14.3	08/09/24 00:14
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	14.3	mg/kg	<14.3	08/09/24 00:14
2,5-Dibromotoluene-PID				%	101	08/09/24 00:14
2,5-Dibromotoluene-FID				%	104	08/09/24 00:14
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: GP-15 (8-10') (4H07007-30)

SAMPLE INFORMATION

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

VPH ANALYTICAL RESULTS

Method for Ranges: MADEP VPH-18-2.1	Client ID		GP-15 (8-10')			
Method for Target Analytes: EPA Method 8260C	Lab ID		4H07007-30			
VPH Surrogate Standards: PID: 2,5-Dibromotoluene FID: 2,5-Dibromotoluene	Date Collected		08/05/24			
	Date Received		08/07/24			
	% Moisture		4.80			
RANGE/TARGET ANALYTE	Elution Range	Dilution	RL	Units	Result	Analyzed
Unadjusted C5-C8 Aliphatic Hydrocarbons [1]	NA	50X	11.9	mg/kg	<11.9	08/09/24 00:43
Unadjusted C9-C12 Aliphatic Hydrocarbons [1]	NA	50X	14.8	mg/kg	<14.8	08/09/24 00:43
Benzene	C5-C8	50X	0.3	mg/kg	<0.3	08/09/24 00:43
Ethylbenzene	C9-C12	50X	0.3	mg/kg	<0.3	08/09/24 00:43
Methyl t-butyl ether (MTBE)	C5-C8	50X	0.06	mg/kg	<0.06	08/09/24 00:43
Naphthalene	NA	50X	0.6	mg/kg	<0.6	08/09/24 00:43
Toluene	C5-C8	50X	0.3	mg/kg	<0.3	08/09/24 00:43
m&p-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	08/09/24 00:43
o-Xylene	C9-C12	50X	0.6	mg/kg	<0.6	08/09/24 00:43
Total xylenes		50X	0.6	mg/kg	<0.6	08/09/24 00:43
C5-C8 Aliphatic Hydrocarbons [1,2]	NA	50X	11.9	mg/kg	<11.9	08/09/24 00:43
C9-C12 Aliphatic Hydrocarbons [1,3]	NA	50X	14.8	mg/kg	<14.8	08/09/24 00:43
C9-C10 Aromatic Hydrocarbons [1]	NA	50X	14.8	mg/kg	<14.8	08/09/24 00:43
2,5-Dibromotoluene-PID				%	96.7	08/09/24 00:43
2,5-Dibromotoluene-FID				%	105	08/09/24 00:43
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

Extractable Petroleum Hydrocarbons
Sample: GP-1 (0-5') (4H07007-01)

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			GP-1 (0-5')	
Method for Target Analytes: MADEP EPH 4-1.1		Lab ID			4H07007-01	
EPH Surrogate Standards: Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected			08/05/24	
		Date Received			08/07/24	
		Date Thawed			NA	
		Date Extracted			08/09/24	
EPH Fractionation Surrogates: (1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene		Percent Moisture			4.80	
RANGE/TARGET ANALYTE		Dilution	RL	Units	Result	Analyzed
Unadjusted C11-C22 Aromatic Hydrocarbons [1]		1X	6.96	mg/kg	<6.96	08/13/24 20:43
Diesel PAH Analytes	Naphthalene	1X	0.34	mg/kg	<0.34	08/13/24 20:43
	2-Methylnaphthalene	1X	0.34	mg/kg	<0.34	08/13/24 20:43
	Phenanthrene	1X	0.34	mg/kg	<0.34	08/13/24 20:43
	Acenaphthene	1X	0.34	mg/kg	<0.34	08/13/24 20:43
Other Target PAH Analytes	Acenaphthylene	1X	0.34	mg/kg	<0.34	08/13/24 20:43
	Fluorene	1X	0.34	mg/kg	<0.34	08/13/24 20:43
	Anthracene	1X	0.34	mg/kg	<0.34	08/13/24 20:43
	Fluoranthene	1X	0.34	mg/kg	<0.34	08/13/24 20:43
	Pyrene	1X	0.34	mg/kg	<0.34	08/13/24 20:43
	Benzo(a)anthracene	1X	0.34	mg/kg	<0.34	08/13/24 20:43
	Chrysene	1X	0.34	mg/kg	<0.34	08/13/24 20:43
	Benzo(b)fluoranthene	1X	0.34	mg/kg	<0.34	08/13/24 20:43
	Benzo(k)fluoranthene	1X	0.34	mg/kg	<0.34	08/13/24 20:43
	Benzo(a)pyrene	1X	0.34	mg/kg	<0.34	08/13/24 20:43
	Indeno(1,2,3-cd)pyrene	1X	0.34	mg/kg	<0.34	08/13/24 20:43
	Dibenz(a,h)anthracene	1X	0.34	mg/kg	<0.34	08/13/24 20:43
	Benzo(g,h,i)perylene	1X	0.34	mg/kg	<0.34	08/13/24 20:43
C9-C18 Aliphatic Hydrocarbons [1]		1X	13.9	mg/kg	<13.9	08/13/24 20:33
C19-C36 Aliphatic Hydrocarbons [1]		1X	13.9	mg/kg	<13.9	08/13/24 20:33
C11-C22 Aromatic Hydrocarbons [1,2]		1X	6.96	mg/kg	<6.96	08/13/24 20:43
Chlorooctadecane (Sample Surrogate)				%	43.4	08/13/24 20:33
o-Terphenyl (Sample Surrogate)				%	69.5	08/13/24 20:43
2-Fluorobiphenyl (Fractionation Surrogate)				%	77.8	08/13/24 20:43
2-Bromonaphthalene (Fractionation Surrogate)				%	85.0	08/13/24 20:43
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: GP-2 (0-5') (4H07007-03)

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			GP-2 (0-5')	
Method for Target Analytes: MADEP EPH 4-1.1		Lab ID			4H07007-03	
EPH Surrogate Standards: Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected			08/05/24	
		Date Received			08/07/24	
		Date Thawed			NA	
		Date Extracted			08/09/24	
EPH Fractionation Surrogates: (1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene		Percent Moisture			12.60	
RANGE/TARGET ANALYTE		Dilution	RL	Units	Result	Analyzed
Unadjusted C11-C22 Aromatic Hydrocarbons [1]		1X	7.58	mg/kg	<7.58	08/13/24 21:09
Diesel PAH Analytes	Naphthalene	1X	0.38	mg/kg	<0.38	08/13/24 21:09
	2-Methylnaphthalene	1X	0.38	mg/kg	<0.38	08/13/24 21:09
	Phenanthrene	1X	0.38	mg/kg	<0.38	08/13/24 21:09
	Acenaphthene	1X	0.38	mg/kg	<0.38	08/13/24 21:09
Other Target PAH Analytes	Acenaphthylene	1X	0.38	mg/kg	<0.38	08/13/24 21:09
	Fluorene	1X	0.38	mg/kg	<0.38	08/13/24 21:09
	Anthracene	1X	0.38	mg/kg	<0.38	08/13/24 21:09
	Fluoranthene	1X	0.38	mg/kg	<0.38	08/13/24 21:09
	Pyrene	1X	0.38	mg/kg	<0.38	08/13/24 21:09
	Benzo(a)anthracene	1X	0.38	mg/kg	<0.38	08/13/24 21:09
	Chrysene	1X	0.38	mg/kg	<0.38	08/13/24 21:09
	Benzo(b)fluoranthene	1X	0.38	mg/kg	<0.38	08/13/24 21:09
	Benzo(k)fluoranthene	1X	0.38	mg/kg	<0.38	08/13/24 21:09
	Benzo(a)pyrene	1X	0.38	mg/kg	<0.38	08/13/24 21:09
	Indeno(1,2,3-cd)pyrene	1X	0.38	mg/kg	<0.38	08/13/24 21:09
	Dibenz(a,h)anthracene	1X	0.38	mg/kg	<0.38	08/13/24 21:09
	Benzo(g,h,i)perylene	1X	0.38	mg/kg	<0.38	08/13/24 21:09
C9-C18 Aliphatic Hydrocarbons [1]		1X	15.1	mg/kg	<15.1	08/13/24 20:57
C19-C36 Aliphatic Hydrocarbons [1]		1X	15.1	mg/kg	<15.1	08/13/24 20:57
C11-C22 Aromatic Hydrocarbons [1,2]		1X	7.58	mg/kg	<7.58	08/13/24 21:09
Chlorooctadecane (Sample Surrogate)				%	40.8	08/13/24 20:57
o-Terphenyl (Sample Surrogate)				%	59.5	08/13/24 21:09
2-Fluorobiphenyl (Fractionation Surrogate)				%	123	08/13/24 21:09
2-Bromonaphthalene (Fractionation Surrogate)				%	133	08/13/24 21:09
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: GP-3 (1-6') (4H07007-05)

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			GP-3 (1-6')	
Method for Target Analytes: MADEP EPH 4-1.1		Lab ID			4H07007-05	
EPH Surrogate Standards: Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected			08/05/24	
		Date Received			08/07/24	
		Date Thawed			NA	
		Date Extracted			08/09/24	
EPH Fractionation Surrogates: (1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene		Percent Moisture			6.70	
RANGE/TARGET ANALYTE		Dilution	RL	Units	Result	Analyzed
Unadjusted C11-C22 Aromatic Hydrocarbons [1]		1X	7.10	mg/kg	8.19	08/13/24 22:54
Diesel PAH Analytes	Naphthalene	1X	0.35	mg/kg	<0.35	08/13/24 22:54
	2-Methylnaphthalene	1X	0.35	mg/kg	<0.35	08/13/24 22:54
	Phenanthrene	1X	0.35	mg/kg	<0.35	08/13/24 22:54
	Acenaphthene	1X	0.35	mg/kg	<0.35	08/13/24 22:54
Other Target PAH Analytes	Acenaphthylene	1X	0.35	mg/kg	<0.35	08/13/24 22:54
	Fluorene	1X	0.35	mg/kg	<0.35	08/13/24 22:54
	Anthracene	1X	0.35	mg/kg	<0.35	08/13/24 22:54
	Fluoranthene	1X	0.35	mg/kg	<0.35	08/13/24 22:54
	Pyrene	1X	0.35	mg/kg	<0.35	08/13/24 22:54
	Benzo(a)anthracene	1X	0.35	mg/kg	<0.35	08/13/24 22:54
	Chrysene	1X	0.35	mg/kg	<0.35	08/13/24 22:54
	Benzo(b)fluoranthene	1X	0.35	mg/kg	<0.35	08/13/24 22:54
	Benzo(k)fluoranthene	1X	0.35	mg/kg	<0.35	08/13/24 22:54
	Benzo(a)pyrene	1X	0.35	mg/kg	<0.35	08/13/24 22:54
	Indeno(1,2,3-cd)pyrene	1X	0.35	mg/kg	<0.35	08/13/24 22:54
	Dibenz(a,h)anthracene	1X	0.35	mg/kg	<0.35	08/13/24 22:54
	Benzo(g,h,i)perylene	1X	0.35	mg/kg	<0.35	08/13/24 22:54
C9-C18 Aliphatic Hydrocarbons [1]		1X	14.2	mg/kg	<14.2	08/13/24 22:33
C19-C36 Aliphatic Hydrocarbons [1]		1X	14.2	mg/kg	16.2	08/13/24 22:33
C11-C22 Aromatic Hydrocarbons [1,2]		1X	7.10	mg/kg	8.19	08/13/24 22:54
Chlorooctadecane (Sample Surrogate)				%	41.1	08/13/24 22:33
o-Terphenyl (Sample Surrogate)				%	48.7	08/13/24 22:54
2-Fluorobiphenyl (Fractionation Surrogate)				%	119	08/13/24 22:54
2-Bromonaphthalene (Fractionation Surrogate)				%	129	08/13/24 22:54
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: GP-4 (1-6') (4H07007-07)

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			GP-4 (1-6')	
Method for Target Analytes: MADEP EPH 4-1.1		Lab ID			4H07007-07	
EPH Surrogate Standards: Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected			08/05/24	
		Date Received			08/07/24	
		Date Thawed			NA	
		Date Extracted			08/09/24	
EPH Fractionation Surrogates: (1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene		Percent Moisture			3.70	
RANGE/TARGET ANALYTE		Dilution	RL	Units	Result	Analyzed
Unadjusted C11-C22 Aromatic Hydrocarbons [1]		1X	6.88	mg/kg	<6.88	08/13/24 23:20
Diesel PAH Analytes	Naphthalene	1X	0.34	mg/kg	<0.34	08/13/24 23:20
	2-Methylnaphthalene	1X	0.34	mg/kg	<0.34	08/13/24 23:20
	Phenanthrene	1X	0.34	mg/kg	<0.34	08/13/24 23:20
	Acenaphthene	1X	0.34	mg/kg	<0.34	08/13/24 23:20
Other Target PAH Analytes	Acenaphthylene	1X	0.34	mg/kg	<0.34	08/13/24 23:20
	Fluorene	1X	0.34	mg/kg	<0.34	08/13/24 23:20
	Anthracene	1X	0.34	mg/kg	<0.34	08/13/24 23:20
	Fluoranthene	1X	0.34	mg/kg	<0.34	08/13/24 23:20
	Pyrene	1X	0.34	mg/kg	<0.34	08/13/24 23:20
	Benzo(a)anthracene	1X	0.34	mg/kg	<0.34	08/13/24 23:20
	Chrysene	1X	0.34	mg/kg	<0.34	08/13/24 23:20
	Benzo(b)fluoranthene	1X	0.34	mg/kg	<0.34	08/13/24 23:20
	Benzo(k)fluoranthene	1X	0.34	mg/kg	<0.34	08/13/24 23:20
	Benzo(a)pyrene	1X	0.34	mg/kg	<0.34	08/13/24 23:20
	Indeno(1,2,3-cd)pyrene	1X	0.34	mg/kg	<0.34	08/13/24 23:20
	Dibenz(a,h)anthracene	1X	0.34	mg/kg	<0.34	08/13/24 23:20
	Benzo(g,h,i)perylene	1X	0.34	mg/kg	<0.34	08/13/24 23:20
C9-C18 Aliphatic Hydrocarbons [1]		1X	13.7	mg/kg	<13.7	08/13/24 22:58
C19-C36 Aliphatic Hydrocarbons [1]		1X	13.7	mg/kg	<13.7	08/13/24 22:58
C11-C22 Aromatic Hydrocarbons [1,2]		1X	6.88	mg/kg	<6.88	08/13/24 23:20
Chlorooctadecane (Sample Surrogate)				%	43.8	08/13/24 22:58
o-Terphenyl (Sample Surrogate)				%	51.4	08/13/24 23:20
2-Fluorobiphenyl (Fractionation Surrogate)				%	114	08/13/24 23:20
2-Bromonaphthalene (Fractionation Surrogate)				%	125	08/13/24 23:20
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: GP-5 (1-6') (4H07007-09)

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			GP-5 (1-6')	
Method for Target Analytes: MADEP EPH 4-1.1		Lab ID			4H07007-09	
EPH Surrogate Standards: Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected			08/05/24	
		Date Received			08/07/24	
		Date Thawed			NA	
		Date Extracted			08/09/24	
EPH Fractionation Surrogates: (1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene		Percent Moisture			5.50	
RANGE/TARGET ANALYTE		Dilution	RL	Units	Result	Analyzed
Unadjusted C11-C22 Aromatic Hydrocarbons [1]		1X	7.01	mg/kg	<7.01	08/13/24 23:47
Diesel PAH Analytes	Naphthalene	1X	0.35	mg/kg	<0.35	08/13/24 23:47
	2-Methylnaphthalene	1X	0.35	mg/kg	<0.35	08/13/24 23:47
	Phenanthrene	1X	0.35	mg/kg	<0.35	08/13/24 23:47
	Acenaphthene	1X	0.35	mg/kg	<0.35	08/13/24 23:47
Other Target PAH Analytes	Acenaphthylene	1X	0.35	mg/kg	<0.35	08/13/24 23:47
	Fluorene	1X	0.35	mg/kg	<0.35	08/13/24 23:47
	Anthracene	1X	0.35	mg/kg	<0.35	08/13/24 23:47
	Fluoranthene	1X	0.35	mg/kg	<0.35	08/13/24 23:47
	Pyrene	1X	0.35	mg/kg	<0.35	08/13/24 23:47
	Benzo(a)anthracene	1X	0.35	mg/kg	<0.35	08/13/24 23:47
	Chrysene	1X	0.35	mg/kg	<0.35	08/13/24 23:47
	Benzo(b)fluoranthene	1X	0.35	mg/kg	<0.35	08/13/24 23:47
	Benzo(k)fluoranthene	1X	0.35	mg/kg	<0.35	08/13/24 23:47
	Benzo(a)pyrene	1X	0.35	mg/kg	<0.35	08/13/24 23:47
	Indeno(1,2,3-cd)pyrene	1X	0.35	mg/kg	<0.35	08/13/24 23:47
	Dibenz(a,h)anthracene	1X	0.35	mg/kg	<0.35	08/13/24 23:47
	Benzo(g,h,i)perylene	1X	0.35	mg/kg	<0.35	08/13/24 23:47
C9-C18 Aliphatic Hydrocarbons [1]		1X	14.0	mg/kg	<14.0	08/13/24 23:22
C19-C36 Aliphatic Hydrocarbons [1]		1X	14.0	mg/kg	<14.0	08/13/24 23:22
C11-C22 Aromatic Hydrocarbons [1,2]		1X	7.01	mg/kg	<7.01	08/13/24 23:47
Chlorooctadecane (Sample Surrogate)				%	45.1	08/13/24 23:22
o-Terphenyl (Sample Surrogate)				%	56.0	08/13/24 23:47
2-Fluorobiphenyl (Fractionation Surrogate)				%	117	08/13/24 23:47
2-Bromonaphthalene (Fractionation Surrogate)				%	123	08/13/24 23:47
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: GP-6 (10-15') (4H07007-11)

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			GP-6 (10-15')	
Method for Target Analytes: MADEP EPH 4-1.1		Lab ID			4H07007-11	
EPH Surrogate Standards: Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected			08/05/24	
		Date Received			08/07/24	
		Date Thawed			NA	
		Date Extracted			08/09/24	
EPH Fractionation Surrogates: (1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene		Percent Moisture			14.70	
RANGE/TARGET ANALYTE		Dilution	RL	Units	Result	Analyzed
Unadjusted C11-C22 Aromatic Hydrocarbons [1]		1X	7.77	mg/kg	<7.77	08/14/24 00:13
Diesel PAH Analytes	Naphthalene	1X	0.38	mg/kg	<0.38	08/14/24 00:13
	2-Methylnaphthalene	1X	0.38	mg/kg	<0.38	08/14/24 00:13
	Phenanthrene	1X	0.38	mg/kg	<0.38	08/14/24 00:13
	Acenaphthene	1X	0.38	mg/kg	<0.38	08/14/24 00:13
Other Target PAH Analytes	Acenaphthylene	1X	0.38	mg/kg	<0.38	08/14/24 00:13
	Fluorene	1X	0.38	mg/kg	<0.38	08/14/24 00:13
	Anthracene	1X	0.38	mg/kg	<0.38	08/14/24 00:13
	Fluoranthene	1X	0.38	mg/kg	<0.38	08/14/24 00:13
	Pyrene	1X	0.38	mg/kg	<0.38	08/14/24 00:13
	Benzo(a)anthracene	1X	0.38	mg/kg	<0.38	08/14/24 00:13
	Chrysene	1X	0.38	mg/kg	<0.38	08/14/24 00:13
	Benzo(b)fluoranthene	1X	0.38	mg/kg	<0.38	08/14/24 00:13
	Benzo(k)fluoranthene	1X	0.38	mg/kg	<0.38	08/14/24 00:13
	Benzo(a)pyrene	1X	0.38	mg/kg	<0.38	08/14/24 00:13
	Indeno(1,2,3-cd)pyrene	1X	0.38	mg/kg	<0.38	08/14/24 00:13
	Dibenz(a,h)anthracene	1X	0.38	mg/kg	<0.38	08/14/24 00:13
	Benzo(g,h,i)perylene	1X	0.38	mg/kg	<0.38	08/14/24 00:13
C9-C18 Aliphatic Hydrocarbons [1]		1X	15.5	mg/kg	<15.5	08/13/24 23:46
C19-C36 Aliphatic Hydrocarbons [1]		1X	15.5	mg/kg	<15.5	08/13/24 23:46
C11-C22 Aromatic Hydrocarbons [1,2]		1X	7.77	mg/kg	<7.77	08/14/24 00:13
Chlorooctadecane (Sample Surrogate)				%	45.3	08/13/24 23:46
o-Terphenyl (Sample Surrogate)				%	61.4	08/14/24 00:13
2-Fluorobiphenyl (Fractionation Surrogate)				%	120	08/14/24 00:13
2-Bromonaphthalene (Fractionation Surrogate)				%	131	08/14/24 00:13
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: GP-7 (10-15') (4H07007-13)

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			GP-7 (10-15')	
Method for Target Analytes: MADEP EPH 4-1.1		Lab ID			4H07007-13	
EPH Surrogate Standards: Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected			08/05/24	
		Date Received			08/07/24	
		Date Thawed			NA	
		Date Extracted			08/09/24	
EPH Fractionation Surrogates: (1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene		Percent Moisture			15.80	
RANGE/TARGET ANALYTE		Dilution	RL	Units	Result	Analyzed
Unadjusted C11-C22 Aromatic Hydrocarbons [1]		1X	7.87	mg/kg	<7.87	08/14/24 00:39
Diesel PAH Analytes	Naphthalene	1X	0.39	mg/kg	<0.39	08/14/24 00:39
	2-Methylnaphthalene	1X	0.39	mg/kg	<0.39	08/14/24 00:39
	Phenanthrene	1X	0.39	mg/kg	<0.39	08/14/24 00:39
	Acenaphthene	1X	0.39	mg/kg	<0.39	08/14/24 00:39
Other Target PAH Analytes	Acenaphthylene	1X	0.39	mg/kg	<0.39	08/14/24 00:39
	Fluorene	1X	0.39	mg/kg	<0.39	08/14/24 00:39
	Anthracene	1X	0.39	mg/kg	<0.39	08/14/24 00:39
	Fluoranthene	1X	0.39	mg/kg	<0.39	08/14/24 00:39
	Pyrene	1X	0.39	mg/kg	<0.39	08/14/24 00:39
	Benzo(a)anthracene	1X	0.39	mg/kg	<0.39	08/14/24 00:39
	Chrysene	1X	0.39	mg/kg	<0.39	08/14/24 00:39
	Benzo(b)fluoranthene	1X	0.39	mg/kg	<0.39	08/14/24 00:39
	Benzo(k)fluoranthene	1X	0.39	mg/kg	<0.39	08/14/24 00:39
	Benzo(a)pyrene	1X	0.39	mg/kg	<0.39	08/14/24 00:39
	Indeno(1,2,3-cd)pyrene	1X	0.39	mg/kg	<0.39	08/14/24 00:39
	Dibenz(a,h)anthracene	1X	0.39	mg/kg	<0.39	08/14/24 00:39
	Benzo(g,h,i)perylene	1X	0.39	mg/kg	<0.39	08/14/24 00:39
C9-C18 Aliphatic Hydrocarbons [1]		1X	15.7	mg/kg	<15.7	08/14/24 00:13
C19-C36 Aliphatic Hydrocarbons [1]		1X	15.7	mg/kg	<15.7	08/14/24 00:13
C11-C22 Aromatic Hydrocarbons [1,2]		1X	7.87	mg/kg	<7.87	08/14/24 00:39
Chlorooctadecane (Sample Surrogate)				%	40.6	08/14/24 00:13
o-Terphenyl (Sample Surrogate)				%	64.0	08/14/24 00:39
2-Fluorobiphenyl (Fractionation Surrogate)				%	72.5	08/14/24 00:39
2-Bromonaphthalene (Fractionation Surrogate)				%	78.4	08/14/24 00:39
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: GP-8 (5-10') (4H07007-15)

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			GP-8 (5-10')	
Method for Target Analytes: MADEP EPH 4-1.1		Lab ID			4H07007-15	
EPH Surrogate Standards: Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected			08/05/24	
		Date Received			08/07/24	
		Date Thawed			NA	
		Date Extracted			08/09/24	
EPH Fractionation Surrogates: (1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene		Percent Moisture			8.40	
RANGE/TARGET ANALYTE		Dilution	RL	Units	Result	Analyzed
Unadjusted C11-C22 Aromatic Hydrocarbons [1]		1X	7.23	mg/kg	<7.23	08/14/24 01:06
Diesel PAH Analytes	Naphthalene	1X	0.36	mg/kg	<0.36	08/14/24 01:06
	2-Methylnaphthalene	1X	0.36	mg/kg	<0.36	08/14/24 01:06
	Phenanthrene	1X	0.36	mg/kg	<0.36	08/14/24 01:06
	Acenaphthene	1X	0.36	mg/kg	<0.36	08/14/24 01:06
Other Target PAH Analytes	Acenaphthylene	1X	0.36	mg/kg	<0.36	08/14/24 01:06
	Fluorene	1X	0.36	mg/kg	<0.36	08/14/24 01:06
	Anthracene	1X	0.36	mg/kg	<0.36	08/14/24 01:06
	Fluoranthene	1X	0.36	mg/kg	<0.36	08/14/24 01:06
	Pyrene	1X	0.36	mg/kg	<0.36	08/14/24 01:06
	Benzo(a)anthracene	1X	0.36	mg/kg	<0.36	08/14/24 01:06
	Chrysene	1X	0.36	mg/kg	<0.36	08/14/24 01:06
	Benzo(b)fluoranthene	1X	0.36	mg/kg	<0.36	08/14/24 01:06
	Benzo(k)fluoranthene	1X	0.36	mg/kg	<0.36	08/14/24 01:06
	Benzo(a)pyrene	1X	0.36	mg/kg	<0.36	08/14/24 01:06
	Indeno(1,2,3-cd)pyrene	1X	0.36	mg/kg	<0.36	08/14/24 01:06
	Dibenz(a,h)anthracene	1X	0.36	mg/kg	<0.36	08/14/24 01:06
	Benzo(g,h,i)perylene	1X	0.36	mg/kg	<0.36	08/14/24 01:06
C9-C18 Aliphatic Hydrocarbons [1]		1X	14.4	mg/kg	<14.4	08/14/24 00:34
C19-C36 Aliphatic Hydrocarbons [1]		1X	14.4	mg/kg	<14.4	08/14/24 00:34
C11-C22 Aromatic Hydrocarbons [1,2]		1X	7.23	mg/kg	<7.23	08/14/24 01:06
Chlorooctadecane (Sample Surrogate)				%	45.2	08/14/24 00:34
o-Terphenyl (Sample Surrogate)				%	67.8	08/14/24 01:06
2-Fluorobiphenyl (Fractionation Surrogate)				%	70.3	08/14/24 01:06
2-Bromonaphthalene (Fractionation Surrogate)				%	77.0	08/14/24 01:06
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: GP-9 (5-10') (4H07007-17)

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			GP-9 (5-10')	
Method for Target Analytes: MADEP EPH 4-1.1		Lab ID			4H07007-17	
EPH Surrogate Standards: Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected			08/05/24	
		Date Received			08/07/24	
		Date Thawed			NA	
		Date Extracted			08/09/24	
EPH Fractionation Surrogates: (1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene		Percent Moisture			14.70	
RANGE/TARGET ANALYTE		Dilution	RL	Units	Result	Analyzed
Unadjusted C11-C22 Aromatic Hydrocarbons [1]		1X	7.77	mg/kg	<7.77	08/14/24 01:33
Diesel PAH Analytes	Naphthalene	1X	0.38	mg/kg	<0.38	08/14/24 01:33
	2-Methylnaphthalene	1X	0.38	mg/kg	<0.38	08/14/24 01:33
	Phenanthrene	1X	0.38	mg/kg	<0.38	08/14/24 01:33
	Acenaphthene	1X	0.38	mg/kg	<0.38	08/14/24 01:33
Other Target PAH Analytes	Acenaphthylene	1X	0.38	mg/kg	<0.38	08/14/24 01:33
	Fluorene	1X	0.38	mg/kg	<0.38	08/14/24 01:33
	Anthracene	1X	0.38	mg/kg	<0.38	08/14/24 01:33
	Fluoranthene	1X	0.38	mg/kg	<0.38	08/14/24 01:33
	Pyrene	1X	0.38	mg/kg	<0.38	08/14/24 01:33
	Benzo(a)anthracene	1X	0.38	mg/kg	<0.38	08/14/24 01:33
	Chrysene	1X	0.38	mg/kg	<0.38	08/14/24 01:33
	Benzo(b)fluoranthene	1X	0.38	mg/kg	<0.38	08/14/24 01:33
	Benzo(k)fluoranthene	1X	0.38	mg/kg	<0.38	08/14/24 01:33
	Benzo(a)pyrene	1X	0.38	mg/kg	<0.38	08/14/24 01:33
	Indeno(1,2,3-cd)pyrene	1X	0.38	mg/kg	<0.38	08/14/24 01:33
	Dibenz(a,h)anthracene	1X	0.38	mg/kg	<0.38	08/14/24 01:33
	Benzo(g,h,i)perylene	1X	0.38	mg/kg	<0.38	08/14/24 01:33
C9-C18 Aliphatic Hydrocarbons [1]		1X	15.5	mg/kg	<15.5	08/14/24 00:58
C19-C36 Aliphatic Hydrocarbons [1]		1X	15.5	mg/kg	<15.5	08/14/24 00:58
C11-C22 Aromatic Hydrocarbons [1,2]		1X	7.77	mg/kg	<7.77	08/14/24 01:33
Chlorooctadecane (Sample Surrogate)				%	53.5	08/14/24 00:58
o-Terphenyl (Sample Surrogate)				%	76.1	08/14/24 01:33
2-Fluorobiphenyl (Fractionation Surrogate)				%	122	08/14/24 01:33
2-Bromonaphthalene (Fractionation Surrogate)				%	132	08/14/24 01:33
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: GP-10 (1-6') (4H07007-19)

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			GP-10 (1-6')	
Method for Target Analytes: MADEP EPH 4-1.1		Lab ID			4H07007-19	
EPH Surrogate Standards: Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected			08/05/24	
		Date Received			08/07/24	
		Date Thawed			NA	
		Date Extracted			08/09/24	
EPH Fractionation Surrogates: (1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene		Percent Moisture			18.90	
RANGE/TARGET ANALYTE		Dilution	RL	Units	Result	Analyzed
Unadjusted C11-C22 Aromatic Hydrocarbons [1]		1X	8.17	mg/kg	<8.17	08/14/24 01:59
Diesel PAH Analytes	Naphthalene	1X	0.40	mg/kg	<0.40	08/14/24 01:59
	2-Methylnaphthalene	1X	0.40	mg/kg	<0.40	08/14/24 01:59
	Phenanthrene	1X	0.40	mg/kg	<0.40	08/14/24 01:59
	Acenaphthene	1X	0.40	mg/kg	<0.40	08/14/24 01:59
Other Target PAH Analytes	Acenaphthylene	1X	0.40	mg/kg	<0.40	08/14/24 01:59
	Fluorene	1X	0.40	mg/kg	<0.40	08/14/24 01:59
	Anthracene	1X	0.40	mg/kg	<0.40	08/14/24 01:59
	Fluoranthene	1X	0.40	mg/kg	<0.40	08/14/24 01:59
	Pyrene	1X	0.40	mg/kg	<0.40	08/14/24 01:59
	Benzo(a)anthracene	1X	0.40	mg/kg	<0.40	08/14/24 01:59
	Chrysene	1X	0.40	mg/kg	<0.40	08/14/24 01:59
	Benzo(b)fluoranthene	1X	0.40	mg/kg	<0.40	08/14/24 01:59
	Benzo(k)fluoranthene	1X	0.40	mg/kg	<0.40	08/14/24 01:59
	Benzo(a)pyrene	1X	0.40	mg/kg	<0.40	08/14/24 01:59
	Indeno(1,2,3-cd)pyrene	1X	0.40	mg/kg	<0.40	08/14/24 01:59
	Dibenz(a,h)anthracene	1X	0.40	mg/kg	<0.40	08/14/24 01:59
	Benzo(g,h,i)perylene	1X	0.40	mg/kg	<0.40	08/14/24 01:59
C9-C18 Aliphatic Hydrocarbons [1]		1X	16.3	mg/kg	<16.3	08/14/24 01:22
C19-C36 Aliphatic Hydrocarbons [1]		1X	16.3	mg/kg	<16.3	08/14/24 01:22
C11-C22 Aromatic Hydrocarbons [1,2]		1X	8.17	mg/kg	<8.17	08/14/24 01:59
Chlorooctadecane (Sample Surrogate)				%	49.5	08/14/24 01:22
o-Terphenyl (Sample Surrogate)				%	68.6	08/14/24 01:59
2-Fluorobiphenyl (Fractionation Surrogate)				%	122	08/14/24 01:59
2-Bromonaphthalene (Fractionation Surrogate)				%	137	08/14/24 01:59
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: GP-11 (1-6') (4H07007-21)

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			GP-11 (1-6')	
Method for Target Analytes: MADEP EPH 4-1.1		Lab ID			4H07007-21	
EPH Surrogate Standards: Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected			08/05/24	
		Date Received			08/07/24	
		Date Thawed			NA	
		Date Extracted			08/09/24	
EPH Fractionation Surrogates: (1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene		Percent Moisture			13.40	
RANGE/TARGET ANALYTE		Dilution	RL	Units	Result	Analyzed
Unadjusted C11-C22 Aromatic Hydrocarbons [1]		1X	7.65	mg/kg	<7.65	08/14/24 02:26
Diesel PAH Analytes	Naphthalene	1X	0.38	mg/kg	<0.38	08/14/24 02:26
	2-Methylnaphthalene	1X	0.38	mg/kg	<0.38	08/14/24 02:26
	Phenanthrene	1X	0.38	mg/kg	<0.38	08/14/24 02:26
	Acenaphthene	1X	0.38	mg/kg	<0.38	08/14/24 02:26
Other Target PAH Analytes	Acenaphthylene	1X	0.38	mg/kg	<0.38	08/14/24 02:26
	Fluorene	1X	0.38	mg/kg	<0.38	08/14/24 02:26
	Anthracene	1X	0.38	mg/kg	<0.38	08/14/24 02:26
	Fluoranthene	1X	0.38	mg/kg	<0.38	08/14/24 02:26
	Pyrene	1X	0.38	mg/kg	<0.38	08/14/24 02:26
	Benzo(a)anthracene	1X	0.38	mg/kg	<0.38	08/14/24 02:26
	Chrysene	1X	0.38	mg/kg	<0.38	08/14/24 02:26
	Benzo(b)fluoranthene	1X	0.38	mg/kg	<0.38	08/14/24 02:26
	Benzo(k)fluoranthene	1X	0.38	mg/kg	<0.38	08/14/24 02:26
	Benzo(a)pyrene	1X	0.38	mg/kg	<0.38	08/14/24 02:26
	Indeno(1,2,3-cd)pyrene	1X	0.38	mg/kg	<0.38	08/14/24 02:26
	Dibenz(a,h)anthracene	1X	0.38	mg/kg	<0.38	08/14/24 02:26
	Benzo(g,h,i)perylene	1X	0.38	mg/kg	<0.38	08/14/24 02:26
C9-C18 Aliphatic Hydrocarbons [1]		1X	15.3	mg/kg	<15.3	08/14/24 01:46
C19-C36 Aliphatic Hydrocarbons [1]		1X	15.3	mg/kg	<15.3	08/14/24 01:46
C11-C22 Aromatic Hydrocarbons [1,2]		1X	7.65	mg/kg	<7.65	08/14/24 02:26
Chlorooctadecane (Sample Surrogate)				%	49.9	08/14/24 01:46
o-Terphenyl (Sample Surrogate)				%	71.2	08/14/24 02:26
2-Fluorobiphenyl (Fractionation Surrogate)				%	117	08/14/24 02:26
2-Bromonaphthalene (Fractionation Surrogate)				%	127	08/14/24 02:26
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: GP-12 (5-10') (4H07007-23)

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			GP-12 (5-10')	
Method for Target Analytes: MADEP EPH 4-1.1		Lab ID			4H07007-23	
EPH Surrogate Standards: Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected			08/05/24	
		Date Received			08/07/24	
		Date Thawed			NA	
		Date Extracted			08/09/24	
EPH Fractionation Surrogates: (1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene		Percent Moisture			5.60	
RANGE/TARGET ANALYTE		Dilution	RL	Units	Result	Analyzed
Unadjusted C11-C22 Aromatic Hydrocarbons [1]		1X	7.02	mg/kg	<7.02	08/14/24 02:52
Diesel PAH Analytes	Naphthalene	1X	0.35	mg/kg	<0.35	08/14/24 02:52
	2-Methylnaphthalene	1X	0.35	mg/kg	<0.35	08/14/24 02:52
	Phenanthrene	1X	0.35	mg/kg	<0.35	08/14/24 02:52
	Acenaphthene	1X	0.35	mg/kg	<0.35	08/14/24 02:52
Other Target PAH Analytes	Acenaphthylene	1X	0.35	mg/kg	<0.35	08/14/24 02:52
	Fluorene	1X	0.35	mg/kg	<0.35	08/14/24 02:52
	Anthracene	1X	0.35	mg/kg	<0.35	08/14/24 02:52
	Fluoranthene	1X	0.35	mg/kg	<0.35	08/14/24 02:52
	Pyrene	1X	0.35	mg/kg	<0.35	08/14/24 02:52
	Benzo(a)anthracene	1X	0.35	mg/kg	<0.35	08/14/24 02:52
	Chrysene	1X	0.35	mg/kg	<0.35	08/14/24 02:52
	Benzo(b)fluoranthene	1X	0.35	mg/kg	<0.35	08/14/24 02:52
	Benzo(k)fluoranthene	1X	0.35	mg/kg	<0.35	08/14/24 02:52
	Benzo(a)pyrene	1X	0.35	mg/kg	<0.35	08/14/24 02:52
	Indeno(1,2,3-cd)pyrene	1X	0.35	mg/kg	<0.35	08/14/24 02:52
	Dibenz(a,h)anthracene	1X	0.35	mg/kg	<0.35	08/14/24 02:52
	Benzo(g,h,i)perylene	1X	0.35	mg/kg	<0.35	08/14/24 02:52
C9-C18 Aliphatic Hydrocarbons [1]		1X	14.0	mg/kg	<14.0	08/14/24 02:13
C19-C36 Aliphatic Hydrocarbons [1]		1X	14.0	mg/kg	<14.0	08/14/24 02:13
C11-C22 Aromatic Hydrocarbons [1,2]		1X	7.02	mg/kg	<7.02	08/14/24 02:52
Chlorooctadecane (Sample Surrogate)				%	56.9	08/14/24 02:13
o-Terphenyl (Sample Surrogate)				%	77.1	08/14/24 02:52
2-Fluorobiphenyl (Fractionation Surrogate)				%	116	08/14/24 02:52
2-Bromonaphthalene (Fractionation Surrogate)				%	126	08/14/24 02:52
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: GP-13 (5-10') (4H07007-25)

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			GP-13 (5-10')	
Method for Target Analytes: MADEP EPH 4-1.1		Lab ID			4H07007-25	
EPH Surrogate Standards: Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected			08/05/24	
		Date Received			08/07/24	
		Date Thawed			NA	
		Date Extracted			08/10/24	
EPH Fractionation Surrogates: (1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene		Percent Moisture			7.60	
RANGE/TARGET ANALYTE		Dilution	RL	Units	Result	Analyzed
Unadjusted C11-C22 Aromatic Hydrocarbons [1]		1X	7.17	mg/kg	<7.17	08/14/24 03:18
Diesel PAH Analytes	Naphthalene	1X	0.35	mg/kg	<0.35	08/14/24 03:18
	2-Methylnaphthalene	1X	0.35	mg/kg	<0.35	08/14/24 03:18
	Phenanthrene	1X	0.35	mg/kg	<0.35	08/14/24 03:18
	Acenaphthene	1X	0.35	mg/kg	<0.35	08/14/24 03:18
Other Target PAH Analytes	Acenaphthylene	1X	0.35	mg/kg	<0.35	08/14/24 03:18
	Fluorene	1X	0.35	mg/kg	<0.35	08/14/24 03:18
	Anthracene	1X	0.35	mg/kg	<0.35	08/14/24 03:18
	Fluoranthene	1X	0.35	mg/kg	<0.35	08/14/24 03:18
	Pyrene	1X	0.35	mg/kg	<0.35	08/14/24 03:18
	Benzo(a)anthracene	1X	0.35	mg/kg	<0.35	08/14/24 03:18
	Chrysene	1X	0.35	mg/kg	<0.35	08/14/24 03:18
	Benzo(b)fluoranthene	1X	0.35	mg/kg	<0.35	08/14/24 03:18
	Benzo(k)fluoranthene	1X	0.35	mg/kg	<0.35	08/14/24 03:18
	Benzo(a)pyrene	1X	0.35	mg/kg	<0.35	08/14/24 03:18
	Indeno(1,2,3-cd)pyrene	1X	0.35	mg/kg	<0.35	08/14/24 03:18
	Dibenz(a,h)anthracene	1X	0.35	mg/kg	<0.35	08/14/24 03:18
	Benzo(g,h,i)perylene	1X	0.35	mg/kg	<0.35	08/14/24 03:18
C9-C18 Aliphatic Hydrocarbons [1]		1X	14.3	mg/kg	<14.3	08/14/24 06:18
C19-C36 Aliphatic Hydrocarbons [1]		1X	14.3	mg/kg	<14.3	08/14/24 06:18
C11-C22 Aromatic Hydrocarbons [1,2]		1X	7.17	mg/kg	<7.17	08/14/24 03:18
Chlorooctadecane (Sample Surrogate)				%	51.8	08/14/24 06:18
o-Terphenyl (Sample Surrogate)				%	64.6	08/14/24 03:18
2-Fluorobiphenyl (Fractionation Surrogate)				%	109	08/14/24 03:18
2-Bromonaphthalene (Fractionation Surrogate)				%	117	08/14/24 03:18
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: GP-14 (5-10') (4H07007-27)

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			GP-14 (5-10')	
Method for Target Analytes: MADEP EPH 4-1.1		Lab ID			4H07007-27	
EPH Surrogate Standards: Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected			08/05/24	
		Date Received			08/07/24	
		Date Thawed			NA	
		Date Extracted			08/10/24	
EPH Fractionation Surrogates: (1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene		Percent Moisture			5.10	
RANGE/TARGET ANALYTE		Dilution	RL	Units	Result	Analyzed
Unadjusted C11-C22 Aromatic Hydrocarbons [1]		1X	6.98	mg/kg	<6.98	08/14/24 03:45
Diesel PAH Analytes	Naphthalene	1X	0.35	mg/kg	<0.35	08/14/24 03:45
	2-Methylnaphthalene	1X	0.35	mg/kg	<0.35	08/14/24 03:45
	Phenanthrene	1X	0.35	mg/kg	<0.35	08/14/24 03:45
	Acenaphthene	1X	0.35	mg/kg	<0.35	08/14/24 03:45
Other Target PAH Analytes	Acenaphthylene	1X	0.35	mg/kg	<0.35	08/14/24 03:45
	Fluorene	1X	0.35	mg/kg	<0.35	08/14/24 03:45
	Anthracene	1X	0.35	mg/kg	<0.35	08/14/24 03:45
	Fluoranthene	1X	0.35	mg/kg	<0.35	08/14/24 03:45
	Pyrene	1X	0.35	mg/kg	<0.35	08/14/24 03:45
	Benzo(a)anthracene	1X	0.35	mg/kg	<0.35	08/14/24 03:45
	Chrysene	1X	0.35	mg/kg	<0.35	08/14/24 03:45
	Benzo(b)fluoranthene	1X	0.35	mg/kg	<0.35	08/14/24 03:45
	Benzo(k)fluoranthene	1X	0.35	mg/kg	<0.35	08/14/24 03:45
	Benzo(a)pyrene	1X	0.35	mg/kg	<0.35	08/14/24 03:45
	Indeno(1,2,3-cd)pyrene	1X	0.35	mg/kg	<0.35	08/14/24 03:45
	Dibenz(a,h)anthracene	1X	0.35	mg/kg	<0.35	08/14/24 03:45
	Benzo(g,h,i)perylene	1X	0.35	mg/kg	<0.35	08/14/24 03:45
C9-C18 Aliphatic Hydrocarbons [1]		1X	13.9	mg/kg	<13.9	08/14/24 06:42
C19-C36 Aliphatic Hydrocarbons [1]		1X	13.9	mg/kg	<13.9	08/14/24 06:42
C11-C22 Aromatic Hydrocarbons [1,2]		1X	6.98	mg/kg	<6.98	08/14/24 03:45
Chlorooctadecane (Sample Surrogate)				%	51.8	08/14/24 06:42
o-Terphenyl (Sample Surrogate)				%	67.4	08/14/24 03:45
2-Fluorobiphenyl (Fractionation Surrogate)				%	115	08/14/24 03:45
2-Bromonaphthalene (Fractionation Surrogate)				%	123	08/14/24 03:45
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: GP-15 (5-10') (4H07007-29)

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			GP-15 (5-10')	
Method for Target Analytes: MADEP EPH 4-1.1		Lab ID			4H07007-29	
EPH Surrogate Standards: Aliphatic: Chlorooctadecane Aromatic: o-Terphenyl		Date Collected			08/05/24	
		Date Received			08/07/24	
		Date Thawed			NA	
		Date Extracted			08/10/24	
EPH Fractionation Surrogates: (1) 2-Fluorobiphenyl (2) 2-Bromonaphthalene		Percent Moisture			4.80	
RANGE/TARGET ANALYTE		Dilution	RL	Units	Result	Analyzed
Unadjusted C11-C22 Aromatic Hydrocarbons [1]		1X	6.96	mg/kg	<6.96	08/14/24 11:30
Diesel PAH Analytes	Naphthalene	1X	0.34	mg/kg	<0.34	08/14/24 11:30
	2-Methylnaphthalene	1X	0.34	mg/kg	<0.34	08/14/24 11:30
	Phenanthrene	1X	0.34	mg/kg	<0.34	08/14/24 11:30
	Acenaphthene	1X	0.34	mg/kg	<0.34	08/14/24 11:30
Other Target PAH Analytes	Acenaphthylene	1X	0.34	mg/kg	<0.34	08/14/24 11:30
	Fluorene	1X	0.34	mg/kg	<0.34	08/14/24 11:30
	Anthracene	1X	0.34	mg/kg	<0.34	08/14/24 11:30
	Fluoranthene	1X	0.34	mg/kg	<0.34	08/14/24 11:30
	Pyrene	1X	0.34	mg/kg	<0.34	08/14/24 11:30
	Benzo(a)anthracene	1X	0.34	mg/kg	<0.34	08/14/24 11:30
	Chrysene	1X	0.34	mg/kg	<0.34	08/14/24 11:30
	Benzo(b)fluoranthene	1X	0.34	mg/kg	<0.34	08/14/24 11:30
	Benzo(k)fluoranthene	1X	0.34	mg/kg	<0.34	08/14/24 11:30
	Benzo(a)pyrene	1X	0.34	mg/kg	<0.34	08/14/24 11:30
	Indeno(1,2,3-cd)pyrene	1X	0.34	mg/kg	<0.34	08/14/24 11:30
	Dibenz(a,h)anthracene	1X	0.34	mg/kg	<0.34	08/14/24 11:30
	Benzo(g,h,i)perylene	1X	0.34	mg/kg	<0.34	08/14/24 11:30
C9-C18 Aliphatic Hydrocarbons [1]		1X	13.9	mg/kg	<13.9	08/14/24 11:08
C19-C36 Aliphatic Hydrocarbons [1]		1X	13.9	mg/kg	<13.9	08/14/24 11:08
C11-C22 Aromatic Hydrocarbons [1,2]		1X	6.96	mg/kg	<6.96	08/14/24 11:30
Chlorooctadecane (Sample Surrogate)				%	45.9	08/14/24 11:08
o-Terphenyl (Sample Surrogate)				%	94.7	08/14/24 11:30
2-Fluorobiphenyl (Fractionation Surrogate)				%	129	08/14/24 11:30
2-Bromonaphthalene (Fractionation Surrogate)				%	131	08/14/24 11:30
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

Total Metals

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B4H0330 - Metals Digestion Soils										
Blank (B4H0330-BLK1)					Prepared & Analyzed: 08/08/24					
Beryllium	ND		0.33	mg/kg						
Zinc	ND		2.0	mg/kg						
Nickel	ND		0.50	mg/kg						
Silver	ND		1.00	mg/kg						
Arsenic	ND		1.00	mg/kg						
Barium	ND		0.33	mg/kg						
Vanadium	ND		0.33	mg/kg						
Antimony	ND		0.66	mg/kg						
Lead	ND		0.50	mg/kg						
Selenium	ND		1.00	mg/kg						
Cadmium	ND		0.50	mg/kg						
Chromium	ND		0.50	mg/kg						
Thallium	ND		0.33	mg/kg						
LCS (B4H0330-BS1)					Prepared & Analyzed: 08/08/24					
Antimony	109		0.66	mg/kg	100		109	85-115		
Vanadium	113		0.33	mg/kg	100		113	85-115		
Selenium	21.5		1.00	mg/kg	20.0		108	85-115		
Nickel	105		0.50	mg/kg	100		105	85-112		
Chromium	111		0.50	mg/kg	100		111	85-115		
Cadmium	104		0.50	mg/kg	100		104	85-115		
Beryllium	18.0		0.33	mg/kg	20.0		90.2	85-115		
Barium	111		0.33	mg/kg	100		111	85-115		
Arsenic	21.1		1.00	mg/kg	20.0		105	85-115		
Silver	45.2		1.00	mg/kg	40.0		113	85-115		
Zinc	113		2.0	mg/kg	100		113	85-115		
Lead	106		0.50	mg/kg	100		106	85-115		
Thallium	110		0.33	mg/kg	100		110	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: B4H0650 - Metals Cold-Vapor Mercury										
Blank (B4H0650-BLK1)					Prepared & Analyzed: 08/16/24					
Mercury	ND		0.100	mg/kg						
LCS (B4H0650-BS1)					Prepared & Analyzed: 08/16/24					
Mercury	0.517		0.100	mg/kg	0.500		103	93-114		

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: B4H0309 - EPA 5035										
Blank (B4H0309-BLK1)					Prepared & Analyzed: 08/08/24					
Acetone	ND		0.100	mg/kg						
Benzene	ND		0.005	mg/kg						
Bromobenzene	ND		0.005	mg/kg						
Bromochloromethane	ND		0.005	mg/kg						
Bromodichloromethane	ND		0.005	mg/kg						
Bromoform	ND		0.005	mg/kg						
Bromomethane	ND		0.005	mg/kg						
2-Butanone	ND		0.100	mg/kg						
tert-Butyl alcohol	ND		0.005	mg/kg						
sec-Butylbenzene	ND		0.005	mg/kg						
n-Butylbenzene	ND		0.005	mg/kg						
tert-Butylbenzene	ND		0.005	mg/kg						
Methyl t-butyl ether (MTBE)	ND		0.005	mg/kg						
Carbon Disulfide	ND		0.005	mg/kg						
Carbon Tetrachloride	ND		0.005	mg/kg						
Chlorobenzene	ND		0.005	mg/kg						
Chloroethane	ND		0.005	mg/kg						
Chloroform	ND		0.005	mg/kg						
Chloromethane	ND		0.005	mg/kg						
4-Chlorotoluene	ND		0.005	mg/kg						
2-Chlorotoluene	ND		0.005	mg/kg						
1,2-Dibromo-3-chloropropane (DBCP)	ND		0.005	mg/kg						
Dibromochloromethane	ND		0.005	mg/kg						
1,2-Dibromoethane (EDB)	ND		0.005	mg/kg						
Dibromomethane	ND		0.005	mg/kg						
1,2-Dichlorobenzene	ND		0.005	mg/kg						
1,3-Dichlorobenzene	ND		0.005	mg/kg						
1,4-Dichlorobenzene	ND		0.005	mg/kg						
1,1-Dichloroethane	ND		0.005	mg/kg						
1,2-Dichloroethane	ND		0.005	mg/kg						
trans-1,2-Dichloroethene	ND		0.005	mg/kg						
1,2 Dichloroethene, Total	ND		0.005	mg/kg						
cis-1,2-Dichloroethene	ND		0.005	mg/kg						
1,1-Dichloroethene	ND		0.005	mg/kg						
1,2-Dichloropropane	ND		0.005	mg/kg						
2,2-Dichloropropane	ND		0.005	mg/kg						
cis-1,3-Dichloropropene	ND		0.005	mg/kg						
trans-1,3-Dichloropropene	ND		0.005	mg/kg						
1,1-Dichloropropene	ND		0.005	mg/kg						
1,3-Dichloropropene (cis + trans)	ND		0.005	mg/kg						
Diethyl ether	ND		0.005	mg/kg						
1,4-Dioxane	ND		0.100	mg/kg						
Ethylbenzene	ND		0.005	mg/kg						
Hexachlorobutadiene	ND		0.005	mg/kg						
2-Hexanone	ND		0.100	mg/kg						
Isopropylbenzene	ND		0.005	mg/kg						
p-Isopropyltoluene	ND		0.005	mg/kg						
Methylene Chloride	ND		0.005	mg/kg						
4-Methyl-2-pentanone	ND		0.100	mg/kg						
Naphthalene	ND		0.005	mg/kg						
n-Propylbenzene	ND		0.005	mg/kg						
Styrene	ND		0.005	mg/kg						
1,1,1,2-Tetrachloroethane	ND		0.005	mg/kg						
Tetrachloroethene	ND		0.005	mg/kg						
Tetrahydrofuran	ND		0.005	mg/kg						
Toluene	ND		0.005	mg/kg						
1,2,4-Trichlorobenzene	ND		0.005	mg/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: B4H0309 - EPA 5035 (Continued)										
Blank (B4H0309-BLK1)					Prepared & Analyzed: 08/08/24					
1,2,3-Trichlorobenzene	ND		0.005	mg/kg						
1,1,2-Trichloroethane	ND		0.005	mg/kg						
1,1,1-Trichloroethane	ND		0.005	mg/kg						
Trichloroethene	ND		0.005	mg/kg						
1,2,3-Trichloropropane	ND		0.005	mg/kg						
1,3,5-Trimethylbenzene	ND		0.005	mg/kg						
1,2,4-Trimethylbenzene	ND		0.005	mg/kg						
Vinyl Chloride	ND		0.005	mg/kg						
o-Xylene	ND		0.005	mg/kg						
m&p-Xylene	ND		0.010	mg/kg						
Total xylenes	ND		0.005	mg/kg						
1,1,2,2-Tetrachloroethane	ND		0.005	mg/kg						
tert-Amyl methyl ether	ND		0.005	mg/kg						
1,3-Dichloropropane	ND		0.005	mg/kg						
Ethyl tert-butyl ether	ND		0.005	mg/kg						
Diisopropyl ether	ND		0.005	mg/kg						
Trichlorofluoromethane	ND		0.005	mg/kg						
Dichlorodifluoromethane	ND		0.005	mg/kg						
Surrogate: 4-Bromofluorobenzene			48.9	ug/kg	50.0		97.8	70-130		
Surrogate: 1,2-Dichloroethane-d4			53.5	ug/kg	50.0		107	70-130		
Surrogate: Toluene-d8			49.0	ug/kg	50.0		98.0	70-130		
LCS (B4H0309-BS1)					Prepared & Analyzed: 08/08/24					
Acetone	0.050		0.005	mg/kg	0.0500		99.7	50-150		
Benzene	0.044		0.005	mg/kg	0.0500		88.2	70-130		
Bromobenzene	0.045		0.005	mg/kg	0.0500		91.0	70-130		
Bromochloromethane	0.044		0.005	mg/kg	0.0500		87.5	70-130		
Bromodichloromethane	0.044		0.005	mg/kg	0.0500		87.1	70-130		
Bromoform	0.037		0.005	mg/kg	0.0500		74.9	70-130		
Bromomethane	0.051		0.005	mg/kg	0.0500		102	50-150		
2-Butanone	0.052		0.005	mg/kg	0.0500		105	50-150		
tert-Butyl alcohol	0.037		0.005	mg/kg	0.0500		74.4	70-130		
sec-Butylbenzene	0.053		0.005	mg/kg	0.0500		106	70-130		
n-Butylbenzene	0.053		0.005	mg/kg	0.0500		106	70-130		
tert-Butylbenzene	0.051		0.005	mg/kg	0.0500		102	70-130		
Methyl t-butyl ether (MTBE)	0.043		0.005	mg/kg	0.0500		86.7	70-130		
Carbon Disulfide	0.044		0.005	mg/kg	0.0500		87.7	50-150		
Carbon Tetrachloride	0.045		0.005	mg/kg	0.0500		89.2	70-130		
Chlorobenzene	0.047		0.005	mg/kg	0.0500		94.9	70-130		
Chloroethane	0.050		0.005	mg/kg	0.0500		101	50-150		
Chloroform	0.044		0.005	mg/kg	0.0500		87.8	70-130		
Chloromethane	0.047		0.005	mg/kg	0.0500		94.2	50-150		
4-Chlorotoluene	0.053		0.005	mg/kg	0.0500		106	70-130		
2-Chlorotoluene	0.051		0.005	mg/kg	0.0500		101	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	0.044		0.005	mg/kg	0.0500		88.4	70-130		
Dibromochloromethane	0.041		0.005	mg/kg	0.0500		81.3	70-130		
1,2-Dibromoethane (EDB)	0.044		0.005	mg/kg	0.0500		88.0	70-130		
Dibromomethane	0.046		0.005	mg/kg	0.0500		92.2	60-140		
1,2-Dichlorobenzene	0.046		0.005	mg/kg	0.0500		93.0	70-130		
1,3-Dichlorobenzene	0.048		0.005	mg/kg	0.0500		96.4	70-130		
1,4-Dichlorobenzene	0.046		0.005	mg/kg	0.0500		92.5	70-130		
1,1-Dichloroethane	0.046		0.005	mg/kg	0.0500		92.0	70-130		
1,2-Dichloroethane	0.046		0.005	mg/kg	0.0500		92.7	70-130		
trans-1,2-Dichloroethene	0.045		0.005	mg/kg	0.0500		89.1	70-130		
cis-1,2-Dichloroethene	0.044		0.005	mg/kg	0.0500		88.3	70-130		
1,1-Dichloroethene	0.045		0.005	mg/kg	0.0500		89.9	70-130		
1,2-Dichloropropane	0.045		0.005	mg/kg	0.0500		89.4	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: B4H0309 - EPA 5035 (Continued)										
LCS (B4H0309-BS1)					Prepared & Analyzed: 08/08/24					
2,2-Dichloropropane	0.046		0.005	mg/kg	0.0500		91.6	70-130		
cis-1,3-Dichloropropene	0.043		0.005	mg/kg	0.0500		86.8	70-130		
trans-1,3-Dichloropropene	0.044		0.005	mg/kg	0.0500		88.4	70-130		
1,1-Dichloropropene	0.044		0.005	mg/kg	0.0500		88.5	70-130		
Diethyl ether	0.046		0.005	mg/kg	0.0500		92.0	60-140		
1,4-Dioxane	0.262		0.100	mg/kg	0.250		105	0-200		
Ethylbenzene	0.049		0.005	mg/kg	0.0500		97.4	70-130		
Hexachlorobutadiene	0.042		0.005	mg/kg	0.0500		83.0	70-130		
2-Hexanone	0.048		0.005	mg/kg	0.0500		96.3	50-150		
Isopropylbenzene	0.051		0.005	mg/kg	0.0500		102	70-130		
p-Isopropyltoluene	0.054		0.005	mg/kg	0.0500		108	70-130		
Methylene Chloride	0.052		0.005	mg/kg	0.0500		104	60-140		
4-Methyl-2-pentanone	0.043		0.005	mg/kg	0.0500		85.6	50-150		
Naphthalene	0.043		0.005	mg/kg	0.0500		86.3	70-130		
n-Propylbenzene	0.053		0.005	mg/kg	0.0500		107	70-130		
Styrene	0.049		0.005	mg/kg	0.0500		98.2	70-130		
1,1,1,2-Tetrachloroethane	0.045		0.005	mg/kg	0.0500		90.7	70-130		
Tetrachloroethene	0.042		0.005	mg/kg	0.0500		83.8	70-130		
Tetrahydrofuran	0.044		0.005	mg/kg	0.0500		88.8	50-150		
Toluene	0.044		0.005	mg/kg	0.0500		87.3	70-130		
1,2,4-Trichlorobenzene	0.042		0.005	mg/kg	0.0500		83.6	70-130		
1,2,3-Trichlorobenzene	0.042		0.005	mg/kg	0.0500		84.2	70-130		
1,1,2-Trichloroethane	0.045		0.005	mg/kg	0.0500		90.5	70-130		
1,1,1-Trichloroethane	0.045		0.005	mg/kg	0.0500		90.0	70-130		
Trichloroethene	0.045		0.005	mg/kg	0.0500		90.4	70-130		
1,2,3-Trichloropropane	0.048		0.005	mg/kg	0.0500		96.8	70-130		
1,3,5-Trimethylbenzene	0.053		0.005	mg/kg	0.0500		107	70-130		
1,2,4-Trimethylbenzene	0.051		0.005	mg/kg	0.0500		102	70-130		
Vinyl Chloride	0.050		0.005	mg/kg	0.0500		99.0	50-150		
o-Xylene	0.047		0.005	mg/kg	0.0500		93.9	70-130		
m&p-Xylene	0.090		0.010	mg/kg	0.100		90.0	70-130		
1,1,2,2-Tetrachloroethane	0.050		0.005	mg/kg	0.0500		101	70-130		
tert-Amyl methyl ether	0.041		0.005	mg/kg	0.0500		81.7	70-130		
1,3-Dichloropropane	0.046		0.005	mg/kg	0.0500		91.0	70-130		
Ethyl tert-butyl ether	0.043		0.005	mg/kg	0.0500		86.0	70-130		
Trichlorofluoromethane	0.048		0.005	mg/kg	0.0500		96.5	50-150		
Dichlorodifluoromethane	0.046		0.005	mg/kg	0.0500		91.9	50-150		
Surrogate: 4-Bromofluorobenzene			52.3	ug/kg	50.0		105	70-130		
Surrogate: 1,2-Dichloroethane-d4			50.6	ug/kg	50.0		101	70-130		
Surrogate: Toluene-d8			48.9	ug/kg	50.0		97.8	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: B4H0309 - EPA 5035 (Continued)										
LCS Dup (B4H0309-BSD1)					Prepared & Analyzed: 08/08/24					
Acetone	0.050		0.005	mg/kg	0.0500		99.7	50-150	0.00	30
Benzene	0.044		0.005	mg/kg	0.0500		87.2	70-130	1.19	20
Bromobenzene	0.045		0.005	mg/kg	0.0500		89.5	70-130	1.66	20
Bromochloromethane	0.044		0.005	mg/kg	0.0500		87.2	70-130	0.366	20
Bromodichloromethane	0.042		0.005	mg/kg	0.0500		84.5	70-130	3.01	20
Bromoform	0.037		0.005	mg/kg	0.0500		74.3	70-130	0.778	20
Bromomethane	0.046		0.005	mg/kg	0.0500		92.8	50-150	9.23	30
2-Butanone	0.053		0.005	mg/kg	0.0500		106	50-150	1.61	30
tert-Butyl alcohol	0.040		0.005	mg/kg	0.0500		79.1	70-130	6.18	20
sec-Butylbenzene	0.052		0.005	mg/kg	0.0500		104	70-130	1.29	20
n-Butylbenzene	0.053		0.005	mg/kg	0.0500		107	70-130	0.675	20
tert-Butylbenzene	0.049		0.005	mg/kg	0.0500		98.8	70-130	3.07	20
Methyl t-butyl ether (MTBE)	0.043		0.005	mg/kg	0.0500		86.0	70-130	0.811	20
Carbon Disulfide	0.043		0.005	mg/kg	0.0500		85.9	50-150	2.07	40
Carbon Tetrachloride	0.043		0.005	mg/kg	0.0500		86.8	70-130	2.73	20
Chlorobenzene	0.046		0.005	mg/kg	0.0500		92.8	70-130	2.22	20
Chloroethane	0.048		0.005	mg/kg	0.0500		96.2	50-150	4.69	30
Chloroform	0.045		0.005	mg/kg	0.0500		90.3	70-130	2.81	20
Chloromethane	0.046		0.005	mg/kg	0.0500		91.7	50-150	2.69	30
4-Chlorotoluene	0.052		0.005	mg/kg	0.0500		104	70-130	1.41	20
2-Chlorotoluene	0.049		0.005	mg/kg	0.0500		97.4	70-130	3.71	20
1,2-Dibromo-3-chloropropane (DBCP)	0.047		0.005	mg/kg	0.0500		95.0	70-130	7.16	20
Dibromochloromethane	0.040		0.005	mg/kg	0.0500		79.8	70-130	1.91	20
1,2-Dibromoethane (EDB)	0.044		0.005	mg/kg	0.0500		87.5	70-130	0.524	20
Dibromomethane	0.045		0.005	mg/kg	0.0500		89.8	60-140	2.62	30
1,2-Dichlorobenzene	0.048		0.005	mg/kg	0.0500		95.0	70-130	2.19	20
1,3-Dichlorobenzene	0.048		0.005	mg/kg	0.0500		96.1	70-130	0.333	20
1,4-Dichlorobenzene	0.047		0.005	mg/kg	0.0500		93.9	70-130	1.46	20
1,1-Dichloroethane	0.046		0.005	mg/kg	0.0500		91.3	70-130	0.764	20
1,2-Dichloroethane	0.048		0.005	mg/kg	0.0500		96.3	70-130	3.72	20
trans-1,2-Dichloroethene	0.043		0.005	mg/kg	0.0500		86.3	70-130	3.19	20
cis-1,2-Dichloroethene	0.043		0.005	mg/kg	0.0500		85.5	70-130	3.29	20
1,1-Dichloroethene	0.044		0.005	mg/kg	0.0500		88.2	70-130	1.98	20
1,2-Dichloropropane	0.045		0.005	mg/kg	0.0500		89.1	70-130	0.291	20
2,2-Dichloropropane	0.043		0.005	mg/kg	0.0500		86.5	70-130	5.68	20
cis-1,3-Dichloropropene	0.042		0.005	mg/kg	0.0500		85.0	70-130	2.12	20
trans-1,3-Dichloropropene	0.043		0.005	mg/kg	0.0500		86.7	70-130	1.92	20
1,1-Dichloropropene	0.044		0.005	mg/kg	0.0500		87.8	70-130	0.771	20
Diethyl ether	0.045		0.005	mg/kg	0.0500		89.4	60-140	2.82	30
1,4-Dioxane	0.273		0.100	mg/kg	0.250		109	0-200	4.12	50
Ethylbenzene	0.048		0.005	mg/kg	0.0500		95.4	70-130	2.05	20
Hexachlorobutadiene	0.043		0.005	mg/kg	0.0500		85.7	70-130	3.22	20
2-Hexanone	0.048		0.005	mg/kg	0.0500		96.6	50-150	0.311	20
Isopropylbenzene	0.050		0.005	mg/kg	0.0500		99.2	70-130	2.55	20
p-Isopropyltoluene	0.053		0.005	mg/kg	0.0500		107	70-130	1.15	20
Methylene Chloride	0.049		0.005	mg/kg	0.0500		98.1	60-140	5.42	30
4-Methyl-2-pentanone	0.043		0.005	mg/kg	0.0500		86.9	50-150	1.60	20
Naphthalene	0.046		0.005	mg/kg	0.0500		92.2	70-130	6.63	20
n-Propylbenzene	0.052		0.005	mg/kg	0.0500		104	70-130	2.14	20
Styrene	0.048		0.005	mg/kg	0.0500		95.2	70-130	3.19	20
1,1,1,2-Tetrachloroethane	0.045		0.005	mg/kg	0.0500		89.2	70-130	1.58	20
Tetrachloroethene	0.041		0.005	mg/kg	0.0500		82.6	70-130	1.44	20
Tetrahydrofuran	0.045		0.005	mg/kg	0.0500		89.6	50-150	0.875	40
Toluene	0.044		0.005	mg/kg	0.0500		87.0	70-130	0.298	20
1,2,4-Trichlorobenzene	0.044		0.005	mg/kg	0.0500		87.4	70-130	4.49	20
1,2,3-Trichlorobenzene	0.044		0.005	mg/kg	0.0500		88.1	70-130	4.48	20
1,1,2-Trichloroethane	0.043		0.005	mg/kg	0.0500		86.5	70-130	4.61	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: B4H0309 - EPA 5035 (Continued)										
LCS Dup (B4H0309-BSD1)					Prepared & Analyzed: 08/08/24					
1,1,1-Trichloroethane	0.043		0.005	mg/kg	0.0500		86.2	70-130	4.38	20
Trichloroethene	0.043		0.005	mg/kg	0.0500		86.0	70-130	4.97	20
1,2,3-Trichloropropane	0.049		0.005	mg/kg	0.0500		97.3	70-130	0.453	20
1,3,5-Trimethylbenzene	0.053		0.005	mg/kg	0.0500		105	70-130	1.49	20
1,2,4-Trimethylbenzene	0.050		0.005	mg/kg	0.0500		99.5	70-130	2.48	20
Vinyl Chloride	0.048		0.005	mg/kg	0.0500		96.4	50-150	2.68	30
o-Xylene	0.046		0.005	mg/kg	0.0500		91.3	70-130	2.83	20
m&p-Xylene	0.087		0.010	mg/kg	0.100		87.3	70-130	3.03	20
1,1,2,2-Tetrachloroethane	0.049		0.005	mg/kg	0.0500		97.2	70-130	3.44	20
tert-Amyl methyl ether	0.041		0.005	mg/kg	0.0500		81.1	70-130	0.761	20
1,3-Dichloropropane	0.044		0.005	mg/kg	0.0500		87.8	70-130	3.60	20
Ethyl tert-butyl ether	0.043		0.005	mg/kg	0.0500		85.9	70-130	0.0233	20
Trichlorofluoromethane	0.048		0.005	mg/kg	0.0500		95.5	50-150	1.06	20
Dichlorodifluoromethane	0.045		0.005	mg/kg	0.0500		90.1	50-150	2.02	30
<i>Surrogate: 4-Bromofluorobenzene</i>			<i>51.0</i>	<i>ug/kg</i>	<i>50.0</i>		<i>102</i>	<i>70-130</i>		
<i>Surrogate: 1,2-Dichloroethane-d4</i>			<i>50.0</i>	<i>ug/kg</i>	<i>50.0</i>		<i>100</i>	<i>70-130</i>		
<i>Surrogate: Toluene-d8</i>			<i>48.6</i>	<i>ug/kg</i>	<i>50.0</i>		<i>97.2</i>	<i>70-130</i>		

Batch: B4H0356 - EPA 5035

Blank (B4H0356-BLK1)

Prepared & Analyzed: 08/09/24

Acetone	ND		0.100	mg/kg						
Benzene	ND		0.005	mg/kg						
Bromobenzene	ND		0.005	mg/kg						
Bromochloromethane	ND		0.005	mg/kg						
Bromodichloromethane	ND		0.005	mg/kg						
Bromoform	ND		0.005	mg/kg						
Bromomethane	ND		0.005	mg/kg						
2-Butanone	ND		0.100	mg/kg						
tert-Butyl alcohol	ND		0.005	mg/kg						
sec-Butylbenzene	ND		0.005	mg/kg						
n-Butylbenzene	ND		0.005	mg/kg						
tert-Butylbenzene	ND		0.005	mg/kg						
Methyl t-butyl ether (MTBE)	ND		0.005	mg/kg						
Carbon Disulfide	ND		0.005	mg/kg						
Carbon Tetrachloride	ND		0.005	mg/kg						
Chlorobenzene	ND		0.005	mg/kg						
Chloroethane	ND		0.005	mg/kg						
Chloroform	ND		0.005	mg/kg						
Chloromethane	ND		0.005	mg/kg						
4-Chlorotoluene	ND		0.005	mg/kg						
2-Chlorotoluene	ND		0.005	mg/kg						
1,2-Dibromo-3-chloropropane (DBCP)	ND		0.005	mg/kg						
Dibromochloromethane	ND		0.005	mg/kg						
1,2-Dibromoethane (EDB)	ND		0.005	mg/kg						
Dibromomethane	ND		0.005	mg/kg						
1,2-Dichlorobenzene	ND		0.005	mg/kg						
1,3-Dichlorobenzene	ND		0.005	mg/kg						
1,4-Dichlorobenzene	ND		0.005	mg/kg						
1,1-Dichloroethane	ND		0.005	mg/kg						
1,2-Dichloroethane	ND		0.005	mg/kg						
trans-1,2-Dichloroethene	ND		0.005	mg/kg						
1,2 Dichloroethene, Total	ND		0.005	mg/kg						
cis-1,2-Dichloroethene	ND		0.005	mg/kg						
1,1-Dichloroethene	ND		0.005	mg/kg						
1,2-Dichloropropane	ND		0.005	mg/kg						
2,2-Dichloropropane	ND		0.005	mg/kg						
cis-1,3-Dichloropropene	ND		0.005	mg/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: B4H0356 - EPA 5035 (Continued)										
Blank (B4H0356-BLK1)					Prepared & Analyzed: 08/09/24					
trans-1,3-Dichloropropene	ND		0.005	mg/kg						
1,1-Dichloropropene	ND		0.005	mg/kg						
1,3-Dichloropropene (cis + trans)	ND		0.005	mg/kg						
Diethyl ether	ND		0.005	mg/kg						
1,4-Dioxane	ND		0.100	mg/kg						
Ethylbenzene	ND		0.005	mg/kg						
Hexachlorobutadiene	ND		0.005	mg/kg						
2-Hexanone	ND		0.100	mg/kg						
Isopropylbenzene	ND		0.005	mg/kg						
p-Isopropyltoluene	ND		0.005	mg/kg						
Methylene Chloride	ND		0.005	mg/kg						
4-Methyl-2-pentanone	ND		0.100	mg/kg						
Naphthalene	ND		0.005	mg/kg						
n-Propylbenzene	ND		0.005	mg/kg						
Styrene	ND		0.005	mg/kg						
1,1,1,2-Tetrachloroethane	ND		0.005	mg/kg						
Tetrachloroethene	ND		0.005	mg/kg						
Tetrahydrofuran	ND		0.005	mg/kg						
Toluene	ND		0.005	mg/kg						
1,2,4-Trichlorobenzene	ND		0.005	mg/kg						
1,2,3-Trichlorobenzene	ND		0.005	mg/kg						
1,1,2-Trichloroethane	ND		0.005	mg/kg						
1,1,1-Trichloroethane	ND		0.005	mg/kg						
Trichloroethene	ND		0.005	mg/kg						
1,2,3-Trichloropropane	ND		0.005	mg/kg						
1,3,5-Trimethylbenzene	ND		0.005	mg/kg						
1,2,4-Trimethylbenzene	ND		0.005	mg/kg						
Vinyl Chloride	ND		0.005	mg/kg						
o-Xylene	ND		0.005	mg/kg						
m&p-Xylene	ND		0.010	mg/kg						
Total xylenes	ND		0.005	mg/kg						
1,1,2,2-Tetrachloroethane	ND		0.005	mg/kg						
tert-Amyl methyl ether	ND		0.005	mg/kg						
1,3-Dichloropropane	ND		0.005	mg/kg						
Ethyl tert-butyl ether	ND		0.005	mg/kg						
Diisopropyl ether	ND		0.005	mg/kg						
Trichlorofluoromethane	ND		0.005	mg/kg						
Dichlorodifluoromethane	ND		0.005	mg/kg						
Surrogate: 4-Bromofluorobenzene			49.8	ug/kg	50.0		99.6	70-130		
Surrogate: 1,2-Dichloroethane-d4			50.3	ug/kg	50.0		101	70-130		
Surrogate: Toluene-d8			49.2	ug/kg	50.0		98.3	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: B4H0356 - EPA 5035 (Continued)										
LCS (B4H0356-BS1)					Prepared & Analyzed: 08/09/24					
Acetone	0.054		0.005	mg/kg	0.0500		108	50-150		
Benzene	0.051		0.005	mg/kg	0.0500		103	70-130		
Bromobenzene	0.055		0.005	mg/kg	0.0500		109	70-130		
Bromochloromethane	0.052		0.005	mg/kg	0.0500		104	70-130		
Bromodichloromethane	0.051		0.005	mg/kg	0.0500		102	70-130		
Bromoform	0.043		0.005	mg/kg	0.0500		86.6	70-130		
Bromomethane	0.056		0.005	mg/kg	0.0500		112	50-150		
2-Butanone	0.059		0.005	mg/kg	0.0500		118	50-150		
tert-Butyl alcohol	0.040		0.005	mg/kg	0.0500		79.9	70-130		
sec-Butylbenzene	0.062		0.005	mg/kg	0.0500		124	70-130		
n-Butylbenzene	0.060		0.005	mg/kg	0.0500		120	70-130		
tert-Butylbenzene	0.059		0.005	mg/kg	0.0500		118	70-130		
Methyl t-butyl ether (MTBE)	0.050		0.005	mg/kg	0.0500		99.6	70-130		
Carbon Disulfide	0.051		0.005	mg/kg	0.0500		102	50-150		
Carbon Tetrachloride	0.053		0.005	mg/kg	0.0500		105	70-130		
Chlorobenzene	0.055		0.005	mg/kg	0.0500		110	70-130		
Chloroethane	0.053		0.005	mg/kg	0.0500		105	50-150		
Chloroform	0.052		0.005	mg/kg	0.0500		105	70-130		
Chloromethane	0.050		0.005	mg/kg	0.0500		99.6	50-150		
4-Chlorotoluene	0.063		0.005	mg/kg	0.0500		126	70-130		
2-Chlorotoluene	0.058		0.005	mg/kg	0.0500		116	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	0.050		0.005	mg/kg	0.0500		99.3	70-130		
Dibromochloromethane	0.048		0.005	mg/kg	0.0500		95.7	70-130		
1,2-Dibromoethane (EDB)	0.052		0.005	mg/kg	0.0500		103	70-130		
Dibromomethane	0.049		0.005	mg/kg	0.0500		98.8	60-140		
1,2-Dichlorobenzene	0.055		0.005	mg/kg	0.0500		110	70-130		
1,3-Dichlorobenzene	0.056		0.005	mg/kg	0.0500		113	70-130		
1,4-Dichlorobenzene	0.054		0.005	mg/kg	0.0500		109	70-130		
1,1-Dichloroethane	0.055		0.005	mg/kg	0.0500		109	70-130		
1,2-Dichloroethane	0.056		0.005	mg/kg	0.0500		113	70-130		
trans-1,2-Dichloroethene	0.052		0.005	mg/kg	0.0500		104	70-130		
cis-1,2-Dichloroethene	0.052		0.005	mg/kg	0.0500		103	70-130		
1,1-Dichloroethene	0.053		0.005	mg/kg	0.0500		107	70-130		
1,2-Dichloropropane	0.052		0.005	mg/kg	0.0500		105	70-130		
2,2-Dichloropropane	0.053		0.005	mg/kg	0.0500		107	70-130		
cis-1,3-Dichloropropene	0.050		0.005	mg/kg	0.0500		101	70-130		
trans-1,3-Dichloropropene	0.052		0.005	mg/kg	0.0500		105	70-130		
1,1-Dichloropropene	0.053		0.005	mg/kg	0.0500		106	70-130		
Diethyl ether	0.054		0.005	mg/kg	0.0500		107	60-140		
1,4-Dioxane	0.217		0.100	mg/kg	0.250		87.0	0-200		
Ethylbenzene	0.057		0.005	mg/kg	0.0500		114	70-130		
Hexachlorobutadiene	0.047		0.005	mg/kg	0.0500		94.7	70-130		
2-Hexanone	0.054		0.005	mg/kg	0.0500		109	50-150		
Isopropylbenzene	0.059		0.005	mg/kg	0.0500		118	70-130		
p-Isopropyltoluene	0.062		0.005	mg/kg	0.0500		125	70-130		
Methylene Chloride	0.048		0.005	mg/kg	0.0500		96.6	60-140		
4-Methyl-2-pentanone	0.048		0.005	mg/kg	0.0500		96.7	50-150		
Naphthalene	0.049		0.005	mg/kg	0.0500		97.8	70-130		
n-Propylbenzene	0.061		0.005	mg/kg	0.0500		123	70-130		
Styrene	0.057		0.005	mg/kg	0.0500		115	70-130		
1,1,1,2-Tetrachloroethane	0.054		0.005	mg/kg	0.0500		107	70-130		
Tetrachloroethene	0.049		0.005	mg/kg	0.0500		97.6	70-130		
Tetrahydrofuran	0.049		0.005	mg/kg	0.0500		97.5	50-150		
Toluene	0.051		0.005	mg/kg	0.0500		102	70-130		
1,2,4-Trichlorobenzene	0.049		0.005	mg/kg	0.0500		97.3	70-130		
1,2,3-Trichlorobenzene	0.049		0.005	mg/kg	0.0500		97.4	70-130		
1,1,2-Trichloroethane	0.052		0.005	mg/kg	0.0500		105	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: B4H0356 - EPA 5035 (Continued)										
LCS (B4H0356-BS1)					Prepared & Analyzed: 08/09/24					
1,1,1-Trichloroethane	0.054		0.005	mg/kg	0.0500		107	70-130		
Trichloroethene	0.052		0.005	mg/kg	0.0500		104	70-130		
1,2,3-Trichloropropane	0.056		0.005	mg/kg	0.0500		112	70-130		
1,3,5-Trimethylbenzene	0.063		0.005	mg/kg	0.0500		127	70-130		
1,2,4-Trimethylbenzene	0.059		0.005	mg/kg	0.0500		119	70-130		
Vinyl Chloride	0.053		0.005	mg/kg	0.0500		105	50-150		
o-Xylene	0.055		0.005	mg/kg	0.0500		110	70-130		
m&p-Xylene	0.106		0.010	mg/kg	0.100		106	70-130		
1,1,2,2-Tetrachloroethane	0.057		0.005	mg/kg	0.0500		115	70-130		
tert-Amyl methyl ether	0.049		0.005	mg/kg	0.0500		97.0	70-130		
1,3-Dichloropropane	0.053		0.005	mg/kg	0.0500		106	70-130		
Ethyl tert-butyl ether	0.050		0.005	mg/kg	0.0500		99.4	70-130		
Trichlorofluoromethane	0.054		0.005	mg/kg	0.0500		107	50-150		
Dichlorodifluoromethane	0.048		0.005	mg/kg	0.0500		96.7	50-150		
<i>Surrogate: 4-Bromofluorobenzene</i>			52.3	ug/kg	50.0		105	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>			50.5	ug/kg	50.0		101	70-130		
<i>Surrogate: Toluene-d8</i>			49.0	ug/kg	50.0		98.0	70-130		
LCS Dup (B4H0356-BSD1)					Prepared & Analyzed: 08/09/24					
Acetone	0.056		0.005	mg/kg	0.0500		112	50-150	3.69	30
Benzene	0.048		0.005	mg/kg	0.0500		95.8	70-130	6.91	20
Bromobenzene	0.050		0.005	mg/kg	0.0500		100	70-130	8.77	20
Bromochloromethane	0.048		0.005	mg/kg	0.0500		96.7	70-130	6.91	20
Bromodichloromethane	0.048		0.005	mg/kg	0.0500		95.4	70-130	6.31	20
Bromoform	0.041		0.005	mg/kg	0.0500		81.8	70-130	5.65	20
Bromomethane	0.048		0.005	mg/kg	0.0500		96.4	50-150	14.7	30
2-Butanone	0.058		0.005	mg/kg	0.0500		116	50-150	2.00	30
tert-Butyl alcohol	0.042		0.005	mg/kg	0.0500		83.2	70-130	4.04	20
sec-Butylbenzene	0.058		0.005	mg/kg	0.0500		115	70-130	7.04	20
n-Butylbenzene	0.057		0.005	mg/kg	0.0500		114	70-130	5.27	20
tert-Butylbenzene	0.055		0.005	mg/kg	0.0500		110	70-130	7.04	20
Methyl t-butyl ether (MTBE)	0.047		0.005	mg/kg	0.0500		94.1	70-130	5.66	20
Carbon Disulfide	0.047		0.005	mg/kg	0.0500		94.1	50-150	7.84	40
Carbon Tetrachloride	0.048		0.005	mg/kg	0.0500		96.9	70-130	8.36	20
Chlorobenzene	0.051		0.005	mg/kg	0.0500		103	70-130	7.40	20
Chloroethane	0.048		0.005	mg/kg	0.0500		95.8	50-150	9.46	30
Chloroform	0.049		0.005	mg/kg	0.0500		98.7	70-130	6.13	20
Chloromethane	0.045		0.005	mg/kg	0.0500		89.2	50-150	11.0	30
4-Chlorotoluene	0.058		0.005	mg/kg	0.0500		116	70-130	8.56	20
2-Chlorotoluene	0.054		0.005	mg/kg	0.0500		108	70-130	7.65	20
1,2-Dibromo-3-chloropropane (DBCP)	0.050		0.005	mg/kg	0.0500		100	70-130	1.10	20
Dibromochloromethane	0.045		0.005	mg/kg	0.0500		89.9	70-130	6.29	20
1,2-Dibromoethane (EDB)	0.049		0.005	mg/kg	0.0500		97.8	70-130	5.37	20
Dibromomethane	0.049		0.005	mg/kg	0.0500		98.5	60-140	0.324	30
1,2-Dichlorobenzene	0.052		0.005	mg/kg	0.0500		105	70-130	4.84	20
1,3-Dichlorobenzene	0.053		0.005	mg/kg	0.0500		106	70-130	6.51	20
1,4-Dichlorobenzene	0.050		0.005	mg/kg	0.0500		101	70-130	7.37	20
1,1-Dichloroethane	0.050		0.005	mg/kg	0.0500		101	70-130	8.18	20
1,2-Dichloroethane	0.053		0.005	mg/kg	0.0500		106	70-130	5.91	20
trans-1,2-Dichloroethene	0.047		0.005	mg/kg	0.0500		94.9	70-130	9.21	20
cis-1,2-Dichloroethene	0.049		0.005	mg/kg	0.0500		97.5	70-130	5.95	20
1,1-Dichloroethene	0.049		0.005	mg/kg	0.0500		97.4	70-130	9.19	20
1,2-Dichloropropane	0.048		0.005	mg/kg	0.0500		96.5	70-130	8.42	20
2,2-Dichloropropane	0.049		0.005	mg/kg	0.0500		99.0	70-130	7.36	20
cis-1,3-Dichloropropene	0.047		0.005	mg/kg	0.0500		94.7	70-130	6.36	20
trans-1,3-Dichloropropene	0.048		0.005	mg/kg	0.0500		96.9	70-130	7.55	20
1,1-Dichloropropene	0.049		0.005	mg/kg	0.0500		97.7	70-130	8.00	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: B4H0356 - EPA 5035 (Continued)										
LCS Dup (B4H0356-BSD1)					Prepared & Analyzed: 08/09/24					
Diethyl ether	0.050		0.005	mg/kg	0.0500		100	60-140	6.46	30
1,4-Dioxane	0.212		0.100	mg/kg	0.250		84.9	0-200	2.46	50
Ethylbenzene	0.052		0.005	mg/kg	0.0500		105	70-130	8.15	20
Hexachlorobutadiene	0.045		0.005	mg/kg	0.0500		89.4	70-130	5.71	20
2-Hexanone	0.054		0.005	mg/kg	0.0500		108	50-150	1.35	20
Isopropylbenzene	0.055		0.005	mg/kg	0.0500		110	70-130	7.00	20
p-Isopropyltoluene	0.059		0.005	mg/kg	0.0500		117	70-130	5.87	20
Methylene Chloride	0.044		0.005	mg/kg	0.0500		88.8	60-140	8.46	30
4-Methyl-2-pentanone	0.048		0.005	mg/kg	0.0500		96.1	50-150	0.643	20
Naphthalene	0.050		0.005	mg/kg	0.0500		99.4	70-130	1.68	20
n-Propylbenzene	0.057		0.005	mg/kg	0.0500		114	70-130	7.71	20
Styrene	0.053		0.005	mg/kg	0.0500		106	70-130	7.84	20
1,1,1,2-Tetrachloroethane	0.049		0.005	mg/kg	0.0500		97.8	70-130	9.45	20
Tetrachloroethene	0.045		0.005	mg/kg	0.0500		91.0	70-130	7.04	20
Tetrahydrofuran	0.046		0.005	mg/kg	0.0500		93.0	50-150	4.75	40
Toluene	0.047		0.005	mg/kg	0.0500		93.5	70-130	8.72	20
1,2,4-Trichlorobenzene	0.046		0.005	mg/kg	0.0500		92.9	70-130	4.56	20
1,2,3-Trichlorobenzene	0.047		0.005	mg/kg	0.0500		94.6	70-130	2.89	20
1,1,2-Trichloroethane	0.046		0.005	mg/kg	0.0500		92.0	70-130	13.0	20
1,1,1-Trichloroethane	0.049		0.005	mg/kg	0.0500		98.4	70-130	8.39	20
Trichloroethene	0.049		0.005	mg/kg	0.0500		98.2	70-130	5.66	20
1,2,3-Trichloropropane	0.054		0.005	mg/kg	0.0500		108	70-130	3.66	20
1,3,5-Trimethylbenzene	0.058		0.005	mg/kg	0.0500		116	70-130	9.03	20
1,2,4-Trimethylbenzene	0.056		0.005	mg/kg	0.0500		111	70-130	6.21	20
Vinyl Chloride	0.048		0.005	mg/kg	0.0500		96.1	50-150	9.16	30
o-Xylene	0.050		0.005	mg/kg	0.0500		99.8	70-130	10.1	20
m&p-Xylene	0.097		0.010	mg/kg	0.100		97.0	70-130	9.26	20
1,1,1,2,2-Tetrachloroethane	0.055		0.005	mg/kg	0.0500		109	70-130	4.72	20
tert-Amyl methyl ether	0.046		0.005	mg/kg	0.0500		91.2	70-130	6.16	20
1,3-Dichloropropane	0.050		0.005	mg/kg	0.0500		99.6	70-130	6.40	20
Ethyl tert-butyl ether	0.046		0.005	mg/kg	0.0500		92.8	70-130	6.86	20
Trichlorofluoromethane	0.049		0.005	mg/kg	0.0500		97.4	50-150	9.74	20
Dichlorodifluoromethane	0.045		0.005	mg/kg	0.0500		90.4	50-150	6.80	30
Surrogate: 4-Bromofluorobenzene			52.0	ug/kg	50.0		104	70-130		
Surrogate: 1,2-Dichloroethane-d4			48.6	ug/kg	50.0		97.2	70-130		
Surrogate: Toluene-d8			49.0	ug/kg	50.0		98.0	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: B4H0428 - EPA 5035										
Blank (B4H0428-BLK1)					Prepared & Analyzed: 08/12/24					
Acetone	ND		0.100	mg/kg						
Benzene	ND		0.005	mg/kg						
Bromobenzene	ND		0.005	mg/kg						
Bromochloromethane	ND		0.005	mg/kg						
Bromodichloromethane	ND		0.005	mg/kg						
Bromoform	ND		0.005	mg/kg						
Bromomethane	ND		0.005	mg/kg						
2-Butanone	ND		0.100	mg/kg						
tert-Butyl alcohol	ND		0.005	mg/kg						
sec-Butylbenzene	ND		0.005	mg/kg						
n-Butylbenzene	ND		0.005	mg/kg						
tert-Butylbenzene	ND		0.005	mg/kg						
Methyl t-butyl ether (MTBE)	ND		0.005	mg/kg						
Carbon Disulfide	ND		0.005	mg/kg						
Carbon Tetrachloride	ND		0.005	mg/kg						
Chlorobenzene	ND		0.005	mg/kg						
Chloroethane	ND		0.005	mg/kg						
Chloroform	ND		0.005	mg/kg						
Chloromethane	ND		0.005	mg/kg						
4-Chlorotoluene	ND		0.005	mg/kg						
2-Chlorotoluene	ND		0.005	mg/kg						
1,2-Dibromo-3-chloropropane (DBCP)	ND		0.005	mg/kg						
Dibromochloromethane	ND		0.005	mg/kg						
1,2-Dibromoethane (EDB)	ND		0.005	mg/kg						
Dibromomethane	ND		0.005	mg/kg						
1,2-Dichlorobenzene	ND		0.005	mg/kg						
1,3-Dichlorobenzene	ND		0.005	mg/kg						
1,4-Dichlorobenzene	ND		0.005	mg/kg						
1,1-Dichloroethane	ND		0.005	mg/kg						
1,2-Dichloroethane	ND		0.005	mg/kg						
1,2 Dichloroethene, Total	ND		0.005	mg/kg						
trans-1,2-Dichloroethene	ND		0.005	mg/kg						
cis-1,2-Dichloroethene	ND		0.005	mg/kg						
1,1-Dichloroethene	ND		0.005	mg/kg						
1,2-Dichloropropane	ND		0.005	mg/kg						
2,2-Dichloropropane	ND		0.005	mg/kg						
cis-1,3-Dichloropropene	ND		0.005	mg/kg						
trans-1,3-Dichloropropene	ND		0.005	mg/kg						
1,1-Dichloropropene	ND		0.005	mg/kg						
1,3-Dichloropropene (cis + trans)	ND		0.005	mg/kg						
Diethyl ether	ND		0.005	mg/kg						
1,4-Dioxane	ND		0.100	mg/kg						
Ethylbenzene	ND		0.005	mg/kg						
Hexachlorobutadiene	ND		0.005	mg/kg						
2-Hexanone	ND		0.100	mg/kg						
Isopropylbenzene	ND		0.005	mg/kg						
p-Isopropyltoluene	ND		0.005	mg/kg						
Methylene Chloride	ND		0.005	mg/kg						
4-Methyl-2-pentanone	ND		0.100	mg/kg						
Naphthalene	ND		0.005	mg/kg						
n-Propylbenzene	ND		0.005	mg/kg						
Styrene	ND		0.005	mg/kg						
1,1,1,2-Tetrachloroethane	ND		0.005	mg/kg						
Tetrachloroethene	ND		0.005	mg/kg						
Tetrahydrofuran	ND		0.005	mg/kg						
Toluene	ND		0.005	mg/kg						
1,2,4-Trichlorobenzene	ND		0.005	mg/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: B4H0428 - EPA 5035 (Continued)										
Blank (B4H0428-BLK1)					Prepared & Analyzed: 08/12/24					
1,2,3-Trichlorobenzene	ND		0.005	mg/kg						
1,1,2-Trichloroethane	ND		0.005	mg/kg						
1,1,1-Trichloroethane	ND		0.005	mg/kg						
Trichloroethene	ND		0.005	mg/kg						
1,2,3-Trichloropropane	ND		0.005	mg/kg						
1,3,5-Trimethylbenzene	ND		0.005	mg/kg						
1,2,4-Trimethylbenzene	ND		0.005	mg/kg						
Vinyl Chloride	ND		0.005	mg/kg						
o-Xylene	ND		0.005	mg/kg						
m&p-Xylene	ND		0.010	mg/kg						
Total xylenes	ND		0.005	mg/kg						
1,1,2,2-Tetrachloroethane	ND		0.005	mg/kg						
tert-Amyl methyl ether	ND		0.005	mg/kg						
1,3-Dichloropropane	ND		0.005	mg/kg						
Ethyl tert-butyl ether	ND		0.005	mg/kg						
Diisopropyl ether	ND		0.005	mg/kg						
Trichlorofluoromethane	ND		0.005	mg/kg						
Dichlorodifluoromethane	ND		0.005	mg/kg						
Surrogate: 4-Bromofluorobenzene			50.7	ug/kg	50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4			54.0	ug/kg	50.0		108	70-130		
Surrogate: Toluene-d8			50.4	ug/kg	50.0		101	70-130		
LCS (B4H0428-BS1)					Prepared & Analyzed: 08/12/24					
Acetone	0.059		0.005	mg/kg	0.0500		118	50-150		
Benzene	0.048		0.005	mg/kg	0.0500		96.0	70-130		
Bromobenzene	0.050		0.005	mg/kg	0.0500		100	70-130		
Bromochloromethane	0.050		0.005	mg/kg	0.0500		99.8	70-130		
Bromodichloromethane	0.047		0.005	mg/kg	0.0500		93.8	70-130		
Bromoform	0.042		0.005	mg/kg	0.0500		83.1	70-130		
Bromomethane	0.056		0.005	mg/kg	0.0500		111	50-150		
2-Butanone	0.062		0.005	mg/kg	0.0500		124	50-150		
tert-Butyl alcohol	0.045		0.005	mg/kg	0.0500		90.1	70-130		
sec-Butylbenzene	0.058		0.005	mg/kg	0.0500		116	70-130		
n-Butylbenzene	0.057		0.005	mg/kg	0.0500		115	70-130		
tert-Butylbenzene	0.055		0.005	mg/kg	0.0500		110	70-130		
Methyl t-butyl ether (MTBE)	0.044		0.005	mg/kg	0.0500		88.2	70-130		
Carbon Disulfide	0.044		0.005	mg/kg	0.0500		87.4	50-150		
Carbon Tetrachloride	0.049		0.005	mg/kg	0.0500		98.2	70-130		
Chlorobenzene	0.051		0.005	mg/kg	0.0500		103	70-130		
Chloroethane	0.057		0.005	mg/kg	0.0500		113	50-150		
Chloroform	0.049		0.005	mg/kg	0.0500		98.8	70-130		
Chloromethane	0.054		0.005	mg/kg	0.0500		107	50-150		
4-Chlorotoluene	0.058		0.005	mg/kg	0.0500		116	70-130		
2-Chlorotoluene	0.055		0.005	mg/kg	0.0500		110	70-130		
1,2-Dibromo-3-chloropropane (DBCP)	0.053		0.005	mg/kg	0.0500		106	70-130		
Dibromochloromethane	0.045		0.005	mg/kg	0.0500		90.3	70-130		
1,2-Dibromoethane (EDB)	0.049		0.005	mg/kg	0.0500		98.2	70-130		
Dibromomethane	0.051		0.005	mg/kg	0.0500		102	60-140		
1,2-Dichlorobenzene	0.052		0.005	mg/kg	0.0500		103	70-130		
1,3-Dichlorobenzene	0.053		0.005	mg/kg	0.0500		105	70-130		
1,4-Dichlorobenzene	0.050		0.005	mg/kg	0.0500		101	70-130		
1,1-Dichloroethane	0.050		0.005	mg/kg	0.0500		100	70-130		
1,2-Dichloroethane	0.052		0.005	mg/kg	0.0500		104	70-130		
trans-1,2-Dichloroethene	0.048		0.005	mg/kg	0.0500		95.6	70-130		
cis-1,2-Dichloroethene	0.048		0.005	mg/kg	0.0500		96.8	70-130		
1,1-Dichloroethene	0.049		0.005	mg/kg	0.0500		97.3	70-130		
1,2-Dichloropropane	0.050		0.005	mg/kg	0.0500		100	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: B4H0428 - EPA 5035 (Continued)										
LCS (B4H0428-BS1)					Prepared & Analyzed: 08/12/24					
2,2-Dichloropropane	0.050		0.005	mg/kg	0.0500		99.6	70-130		
cis-1,3-Dichloropropene	0.049		0.005	mg/kg	0.0500		97.1	70-130		
trans-1,3-Dichloropropene	0.048		0.005	mg/kg	0.0500		96.1	70-130		
1,1-Dichloropropene	0.048		0.005	mg/kg	0.0500		95.2	70-130		
Diethyl ether	0.046		0.005	mg/kg	0.0500		91.5	60-140		
1,4-Dioxane	0.235		0.100	mg/kg	0.250		94.0	0-200		
Ethylbenzene	0.052		0.005	mg/kg	0.0500		105	70-130		
Hexachlorobutadiene	0.046		0.005	mg/kg	0.0500		91.0	70-130		
2-Hexanone	0.056		0.005	mg/kg	0.0500		113	50-150		
Isopropylbenzene	0.055		0.005	mg/kg	0.0500		110	70-130		
p-Isopropyltoluene	0.059		0.005	mg/kg	0.0500		118	70-130		
Methylene Chloride	0.057		0.005	mg/kg	0.0500		114	60-140		
4-Methyl-2-pentanone	0.047		0.005	mg/kg	0.0500		93.2	50-150		
Naphthalene	0.050		0.005	mg/kg	0.0500		101	70-130		
n-Propylbenzene	0.058		0.005	mg/kg	0.0500		116	70-130		
Styrene	0.053		0.005	mg/kg	0.0500		106	70-130		
1,1,1,2-Tetrachloroethane	0.049		0.005	mg/kg	0.0500		97.1	70-130		
Tetrachloroethene	0.045		0.005	mg/kg	0.0500		89.5	70-130		
Tetrahydrofuran	0.049		0.005	mg/kg	0.0500		97.3	50-150		
Toluene	0.048		0.005	mg/kg	0.0500		95.7	70-130		
1,2,4-Trichlorobenzene	0.046		0.005	mg/kg	0.0500		92.7	70-130		
1,2,3-Trichlorobenzene	0.047		0.005	mg/kg	0.0500		93.8	70-130		
1,1,2-Trichloroethane	0.048		0.005	mg/kg	0.0500		96.9	70-130		
1,1,1-Trichloroethane	0.048		0.005	mg/kg	0.0500		96.5	70-130		
Trichloroethene	0.049		0.005	mg/kg	0.0500		98.2	70-130		
1,2,3-Trichloropropane	0.054		0.005	mg/kg	0.0500		108	70-130		
1,3,5-Trimethylbenzene	0.058		0.005	mg/kg	0.0500		117	70-130		
1,2,4-Trimethylbenzene	0.055		0.005	mg/kg	0.0500		110	70-130		
Vinyl Chloride	0.055		0.005	mg/kg	0.0500		111	50-150		
o-Xylene	0.051		0.005	mg/kg	0.0500		102	70-130		
m&p-Xylene	0.097		0.010	mg/kg	0.100		97.2	70-130		
1,1,2,2-Tetrachloroethane	0.055		0.005	mg/kg	0.0500		111	70-130		
tert-Amyl methyl ether	0.042		0.005	mg/kg	0.0500		83.9	70-130		
1,3-Dichloropropane	0.050		0.005	mg/kg	0.0500		99.3	70-130		
Ethyl tert-butyl ether	0.044		0.005	mg/kg	0.0500		87.8	70-130		
Trichlorofluoromethane	0.054		0.005	mg/kg	0.0500		108	50-150		
Dichlorodifluoromethane	0.053		0.005	mg/kg	0.0500		106	50-150		
Surrogate: 4-Bromofluorobenzene			52.0	ug/kg	50.0		104	70-130		
Surrogate: 1,2-Dichloroethane-d4			50.1	ug/kg	50.0		100	70-130		
Surrogate: Toluene-d8			49.4	ug/kg	50.0		98.8	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: B4H0428 - EPA 5035 (Continued)										
LCS Dup (B4H0428-BSD1)					Prepared & Analyzed: 08/12/24					
Acetone	0.065		0.005	mg/kg	0.0500		130	50-150	9.71	30
Benzene	0.052		0.005	mg/kg	0.0500		104	70-130	7.67	20
Bromobenzene	0.052		0.005	mg/kg	0.0500		105	70-130	4.02	20
Bromochloromethane	0.049		0.005	mg/kg	0.0500		97.7	70-130	2.17	20
Bromodichloromethane	0.051		0.005	mg/kg	0.0500		101	70-130	7.53	20
Bromoform	0.042		0.005	mg/kg	0.0500		84.5	70-130	1.67	20
Bromomethane	0.051		0.005	mg/kg	0.0500		101	50-150	9.32	30
2-Butanone	0.068		0.005	mg/kg	0.0500		135	50-150	8.85	30
tert-Butyl alcohol	0.054		0.005	mg/kg	0.0500		109	70-130	19.0	20
sec-Butylbenzene	0.060		0.005	mg/kg	0.0500		120	70-130	3.31	20
n-Butylbenzene	0.061		0.005	mg/kg	0.0500		122	70-130	6.35	20
tert-Butylbenzene	0.057		0.005	mg/kg	0.0500		114	70-130	3.47	20
Methyl t-butyl ether (MTBE)	0.046		0.005	mg/kg	0.0500		91.0	70-130	3.10	20
Carbon Disulfide	0.047		0.005	mg/kg	0.0500		93.4	50-150	6.64	40
Carbon Tetrachloride	0.050		0.005	mg/kg	0.0500		99.1	70-130	0.953	20
Chlorobenzene	0.054		0.005	mg/kg	0.0500		108	70-130	5.38	20
Chloroethane	0.052		0.005	mg/kg	0.0500		104	50-150	7.97	30
Chloroform	0.054		0.005	mg/kg	0.0500		107	70-130	8.18	20
Chloromethane	0.047		0.005	mg/kg	0.0500		93.1	50-150	14.0	30
4-Chlorotoluene	0.060		0.005	mg/kg	0.0500		121	70-130	4.22	20
2-Chlorotoluene	0.057		0.005	mg/kg	0.0500		113	70-130	3.30	20
1,2-Dibromo-3-chloropropane (DBCP)	0.055		0.005	mg/kg	0.0500		110	70-130	3.59	20
Dibromochloromethane	0.048		0.005	mg/kg	0.0500		96.0	70-130	6.06	20
1,2-Dibromoethane (EDB)	0.052		0.005	mg/kg	0.0500		104	70-130	5.37	20
Dibromomethane	0.054		0.005	mg/kg	0.0500		108	60-140	5.87	30
1,2-Dichlorobenzene	0.055		0.005	mg/kg	0.0500		109	70-130	5.84	20
1,3-Dichlorobenzene	0.055		0.005	mg/kg	0.0500		109	70-130	3.76	20
1,4-Dichlorobenzene	0.053		0.005	mg/kg	0.0500		107	70-130	6.13	20
1,1-Dichloroethane	0.054		0.005	mg/kg	0.0500		108	70-130	7.80	20
1,2-Dichloroethane	0.057		0.005	mg/kg	0.0500		113	70-130	8.52	20
trans-1,2-Dichloroethene	0.051		0.005	mg/kg	0.0500		102	70-130	6.87	20
cis-1,2-Dichloroethene	0.052		0.005	mg/kg	0.0500		105	70-130	8.00	20
1,1-Dichloroethene	0.051		0.005	mg/kg	0.0500		103	70-130	5.36	20
1,2-Dichloropropane	0.050		0.005	mg/kg	0.0500		101	70-130	0.457	20
2,2-Dichloropropane	0.052		0.005	mg/kg	0.0500		103	70-130	3.47	20
cis-1,3-Dichloropropene	0.051		0.005	mg/kg	0.0500		101	70-130	4.08	20
trans-1,3-Dichloropropene	0.052		0.005	mg/kg	0.0500		104	70-130	7.69	20
1,1-Dichloropropene	0.051		0.005	mg/kg	0.0500		102	70-130	7.23	20
Diethyl ether	0.051		0.005	mg/kg	0.0500		102	60-140	10.7	30
1,4-Dioxane	0.246		0.100	mg/kg	0.250		98.4	0-200	4.61	50
Ethylbenzene	0.056		0.005	mg/kg	0.0500		113	70-130	7.26	20
Hexachlorobutadiene	0.050		0.005	mg/kg	0.0500		99.3	70-130	8.72	20
2-Hexanone	0.061		0.005	mg/kg	0.0500		123	50-150	8.56	20
Isopropylbenzene	0.058		0.005	mg/kg	0.0500		115	70-130	4.29	20
p-Isopropyltoluene	0.061		0.005	mg/kg	0.0500		121	70-130	3.23	20
Methylene Chloride	0.057		0.005	mg/kg	0.0500		114	60-140	0.666	30
4-Methyl-2-pentanone	0.049		0.005	mg/kg	0.0500		98.8	50-150	5.85	20
Naphthalene	0.054		0.005	mg/kg	0.0500		109	70-130	7.94	20
n-Propylbenzene	0.060		0.005	mg/kg	0.0500		120	70-130	3.50	20
Styrene	0.056		0.005	mg/kg	0.0500		112	70-130	5.65	20
1,1,1,2-Tetrachloroethane	0.052		0.005	mg/kg	0.0500		104	70-130	6.58	20
Tetrachloroethene	0.047		0.005	mg/kg	0.0500		93.6	70-130	4.54	20
Tetrahydrofuran	0.050		0.005	mg/kg	0.0500		99.7	50-150	2.52	40
Toluene	0.052		0.005	mg/kg	0.0500		104	70-130	7.87	20
1,2,4-Trichlorobenzene	0.051		0.005	mg/kg	0.0500		101	70-130	9.05	20
1,2,3-Trichlorobenzene	0.051		0.005	mg/kg	0.0500		102	70-130	8.79	20
1,1,2-Trichloroethane	0.053		0.005	mg/kg	0.0500		106	70-130	8.88	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: B4H0428 - EPA 5035 (Continued)										
LCS Dup (B4H0428-BSD1)					Prepared & Analyzed: 08/12/24					
1,1,1-Trichloroethane	0.052		0.005	mg/kg	0.0500		104	70-130	7.92	20
Trichloroethene	0.052		0.005	mg/kg	0.0500		104	70-130	5.51	20
1,2,3-Trichloropropane	0.056		0.005	mg/kg	0.0500		112	70-130	3.96	20
1,3,5-Trimethylbenzene	0.061		0.005	mg/kg	0.0500		122	70-130	3.91	20
1,2,4-Trimethylbenzene	0.058		0.005	mg/kg	0.0500		117	70-130	5.61	20
Vinyl Chloride	0.050		0.005	mg/kg	0.0500		100	50-150	9.67	30
o-Xylene	0.053		0.005	mg/kg	0.0500		107	70-130	4.45	20
m&p-Xylene	0.104		0.010	mg/kg	0.100		104	70-130	6.94	20
1,1,2,2-Tetrachloroethane	0.057		0.005	mg/kg	0.0500		113	70-130	2.28	20
tert-Amyl methyl ether	0.045		0.005	mg/kg	0.0500		89.3	70-130	6.24	20
1,3-Dichloropropane	0.053		0.005	mg/kg	0.0500		105	70-130	5.86	20
Ethyl tert-butyl ether	0.046		0.005	mg/kg	0.0500		92.4	70-130	5.04	20
Trichlorofluoromethane	0.051		0.005	mg/kg	0.0500		102	50-150	6.07	20
Dichlorodifluoromethane	0.048		0.005	mg/kg	0.0500		95.4	50-150	10.8	30
Surrogate: 4-Bromofluorobenzene			51.1	ug/kg	50.0		102	70-130		
Surrogate: 1,2-Dichloroethane-d4			49.7	ug/kg	50.0		99.4	70-130		
Surrogate: Toluene-d8			49.5	ug/kg	50.0		99.0	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: B4H0354 - MADEP VPH										
Blank (B4H0354-BLK1)					Prepared & Analyzed: 08/08/24					
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>44.3</i>	<i>ug/l</i>	<i>50.0</i>		<i>88.7</i>	<i>70-130</i>		
<i>Surrogate: 2,5- Dibromotoluene-FID</i>			<i>47.8</i>	<i>ug/l</i>	<i>50.0</i>		<i>95.7</i>	<i>70-130</i>		
LCS (B4H0354-BS1)					Prepared & Analyzed: 08/08/24					
Benzene	2.4		0.2	mg/kg	2.50		95.0	70-130		
Ethylbenzene	2.3		0.2	mg/kg	2.50		92.7	70-130		
Methyl t-butyl ether (MTBE)	2.3		0.05	mg/kg	2.50		90.1	70-130		
Naphthalene	2.3		0.5	mg/kg	2.50		92.7	70-130		
Toluene	2.3		0.2	mg/kg	2.50		93.8	70-130		
m&p-Xylene	4.6		0.5	mg/kg	5.00		92.8	70-130		
2-Methylpentane	2.5		250	mg/kg	2.50		99.4	70-130		
o-Xylene	2.3		0.5	mg/kg	2.50		91.2	70-130		
n-Nonane	2.3		250	mg/kg	2.50		93.6	70-130		
Decane	2.0		250	mg/kg	2.50		78.3	70-130		
n-Butylcyclohexane	2.3		250	mg/kg	2.50		93.6	70-130		
n-Pentane	2.5		250	mg/kg	2.50		101	70-130		
1,2,4-Trimethylbenzene	2.2		0.5	mg/kg	2.50		88.2	70-130		
VPH_LCS_Aliphatic_C5-C8	7.5		0.5	mg/kg	7.50		100	70-130		
VPH_LCS_Aliphatic_C9-C12	4.3		0.5	mg/kg	5.00		86.0	70-130		
2,2,4-Trimethylpentane	2.5		0.2	mg/kg	2.50		100	70-130		
VPH_LCS_Aromatic_C9-C10	2.2		0.5	mg/kg	2.50		88.2	70-130		
<i>Surrogate: 2,5- Dibromotoluene-PID</i>			<i>44.4</i>	<i>ug/l</i>	<i>50.0</i>		<i>88.8</i>	<i>70-130</i>		
<i>Surrogate: 2,5- Dibromotoluene-FID</i>			<i>45.6</i>	<i>ug/l</i>	<i>50.0</i>		<i>91.2</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	%REC Limits	RPD	RPD Limit
Batch: B4H0354 - MADEP VPH (Continued)										
LCS Dup (B4H0354-BSD1)					Prepared & Analyzed: 08/08/24					
Benzene	2.4		0.2	mg/kg	2.50		94.7	70-130	0.295	25
Ethylbenzene	2.3		0.2	mg/kg	2.50		92.6	70-130	0.0863	25
Methyl t-butyl ether (MTBE)	2.2		0.05	mg/kg	2.50		89.5	70-130	0.668	25
Naphthalene	2.5		0.5	mg/kg	2.50		98.6	70-130	6.13	25
Toluene	2.3		0.2	mg/kg	2.50		93.7	70-130	0.107	25
m&p-Xylene	4.6		0.5	mg/kg	5.00		92.7	70-130	0.0970	25
2-Methylpentane	2.4		250	mg/kg	2.50		95.7	70-130	3.81	25
n-Nonane	2.1		250	mg/kg	2.50		83.0	70-130	12.0	25
o-Xylene	2.3		0.5	mg/kg	2.50		92.2	70-130	1.07	25
Decane	1.7		250	mg/kg	2.50		68.1	70-130	13.9	25
n-Butylcyclohexane	2.4		250	mg/kg	2.50		94.1	70-130	0.618	25
n-Pentane	2.6		250	mg/kg	2.50		103	70-130	2.09	25
1,2,4-Trimethylbenzene	2.3		0.5	mg/kg	2.50		90.5	70-130	2.62	25
VPH_LCS_Aliphatic_C5-C8	7.4		0.5	mg/kg	7.50		99.0	70-130	1.05	25
VPH_LCS_Aliphatic_C9-C12	4.1		0.5	mg/kg	5.00		81.1	70-130	5.76	25
VPH_LCS_Aromatic_C9-C10	2.3		0.5	mg/kg	2.50		90.5	70-130	2.62	25
2,2,4-Trimethylpentane	2.5		0.2	mg/kg	2.50		98.7	70-130	1.55	25
Surrogate: 2,5- Dibromotoluene-PID			46.7	ug/l	50.0		93.4	70-130		
Surrogate: 2,5- Dibromotoluene-FID			46.8	ug/l	50.0		93.7	70-130		

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: B4H0358 - 1_Semivolatiles Extractions										
Blank (B4H0358-BLK1)					Prepared: 08/09/24 Analyzed: 08/13/24					
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						
Surrogate: Chlorooctadecane			3.43	mg/kg	8.28		41.5	40-140		
Surrogate: o-Terphenyl			4.11	mg/kg	8.28		49.7	40-140		
Surrogate: 2-Fluorobiphenyl			4.18	mg/kg	3.31		126	40-140		
Surrogate: 2-Bromonaphthalene			4.44	mg/kg	3.31		134	40-140		
LCS (B4H0358-BS1)					Prepared: 08/09/24 Analyzed: 08/13/24					
Naphthalene	1.11		0.33	mg/kg	2.65		41.9	40-140		
2-Methylnaphthalene	1.08		0.33	mg/kg	2.65		40.9	40-140		
Phenanthrene	1.08		0.33	mg/kg	2.65		40.7	40-140		
Acenaphthene	1.10		0.33	mg/kg	2.65		41.6	40-140		
Acenaphthylene	1.11		0.33	mg/kg	2.65		42.0	40-140		
Fluorene	1.09		0.33	mg/kg	2.65		41.0	40-140		
Anthracene	1.14		0.33	mg/kg	2.65		42.9	40-140		
Fluoranthene	1.25		0.33	mg/kg	2.65		47.4	40-140		
Pyrene	1.24		0.33	mg/kg	2.65		47.0	40-140		
Benzo(a)anthracene	1.35		0.33	mg/kg	2.65		51.0	40-140		
Chrysene	1.30		0.33	mg/kg	2.65		48.9	40-140		
Benzo(b)fluoranthene	1.22		0.33	mg/kg	2.65		46.2	40-140		
Benzo(k)fluoranthene	1.15		0.33	mg/kg	2.65		43.5	40-140		
Benzo(a)pyrene	1.25		0.33	mg/kg	2.65		47.3	40-140		
Indeno(1,2,3-cd)pyrene	1.15		0.33	mg/kg	2.65		43.3	40-140		
Dibenz(a,h)anthracene	1.19		0.33	mg/kg	2.65		44.9	40-140		
Benzo(g,h,i)perylene	1.12		0.33	mg/kg	2.65		42.3	40-140		
EPH_LCS_Aliphatic_C19-C36	12.1		0.00	mg/kg	21.2		56.9	40-140		
EPH_LCS_Aliphatic_C9-C18	6.64		0.00	mg/kg	15.9		41.8	40-140		
EPH_LCS_Aromatic_C11-C22	19.9		0.00	mg/kg	45.0		44.3	40-140		
Nonane	0.83		0.33	mg/kg	2.65		31.4	30-140		
Decane	1.09		0.33	mg/kg	2.65		41.0	40-140		
Dodecane	1.19		0.33	mg/kg	2.65		44.9	40-140		
Tetradecane	1.08		0.33	mg/kg	2.65		40.6	40-140		
Hexadecane	1.13		0.33	mg/kg	2.65		42.6	40-140		
Octadecane	1.33		0.33	mg/kg	2.65		50.0	40-140		
Nonadecane	1.40		0.33	mg/kg	2.65		52.8	40-140		
Eicosane	1.45		0.33	mg/kg	2.65		54.8	40-140		
Docosane	1.54		0.33	mg/kg	2.65		58.0	40-140		
Tetracosane	1.57		0.33	mg/kg	2.65		59.3	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: B4H0358 - 1_Semivolatiles Extractions (Continued)										
LCS (B4H0358-BS1)					Prepared: 08/09/24 Analyzed: 08/13/24					
Hexacosane	1.57		0.33	mg/kg	2.65		59.2	40-140		
Octacosane	1.56		0.33	mg/kg	2.65		58.8	40-140		
Triacotane	1.57		0.33	mg/kg	2.65		59.3	40-140		
Hexatriacontane	1.41		0.33	mg/kg	2.65		53.3	40-140		
Surrogate: Chlorooctadecane			4.30	mg/kg	8.28		51.9	40-140		
Surrogate: o-Terphenyl			3.35	mg/kg	8.28		40.4	40-140		
Surrogate: 2-Fluorobiphenyl			4.10	mg/kg	3.31		124	40-140		
Surrogate: 2-Bromonaphthalene			4.16	mg/kg	3.31		126	40-140		
LCS Dup (B4H0358-BSD1)					Prepared: 08/09/24 Analyzed: 08/13/24					
Naphthalene	1.22		0.33	mg/kg	2.65		46.1	40-140	9.59	25
2-Methylnaphthalene	1.32		0.33	mg/kg	2.65		50.0	40-140	19.9	25
Phenanthrene	1.30		0.33	mg/kg	2.65		49.0	40-140	18.3	25
Acenaphthene	1.23		0.33	mg/kg	2.65		46.3	40-140	10.7	25
Acenaphthylene	1.22		0.33	mg/kg	2.65		46.1	40-140	9.31	25
Fluorene	1.25		0.33	mg/kg	2.65		47.2	40-140	14.1	25
Anthracene	1.24		0.33	mg/kg	2.65		46.9	40-140	8.80	25
Fluoranthene	1.44		0.33	mg/kg	2.65		54.5	40-140	14.0	25
Pyrene	1.43		0.33	mg/kg	2.65		54.1	40-140	14.2	25
Benzo(a)anthracene	1.55		0.33	mg/kg	2.65		58.4	40-140	13.6	25
Chrysene	1.45		0.33	mg/kg	2.65		54.7	40-140	11.1	25
Benzo(b)fluoranthene	1.40		0.33	mg/kg	2.65		52.9	40-140	13.5	25
Benzo(k)fluoranthene	1.27		0.33	mg/kg	2.65		48.0	40-140	9.88	25
Benzo(a)pyrene	1.41		0.33	mg/kg	2.65		53.3	40-140	12.0	25
Indeno(1,2,3-cd)pyrene	1.32		0.33	mg/kg	2.65		49.8	40-140	14.0	25
Dibenz(a,h)anthracene	1.35		0.33	mg/kg	2.65		51.0	40-140	12.7	25
Benzo(g,h,i)perylene	1.32		0.33	mg/kg	2.65		49.8	40-140	16.2	25
EPH_LCS_Aliphatic_C19-C36	13.5		0.00	mg/kg	21.2		63.9	40-140	11.6	25
EPH_LCS_Aliphatic_C9-C18	7.38		0.00	mg/kg	15.9		46.4	40-140	10.6	25
EPH_LCS_Aromatic_C11-C22	22.7		0.00	mg/kg	45.0		50.5	40-140	13.1	25
Nonane	0.81		0.33	mg/kg	2.65		30.7	30-140	2.01	25
Decane	1.06		0.33	mg/kg	2.65		40.1	40-140	2.28	25
Dodecane	1.27		0.33	mg/kg	2.65		48.1	40-140	6.83	25
Tetradecane	1.26		0.33	mg/kg	2.65		47.8	40-140	16.1	25
Hexadecane	1.38		0.33	mg/kg	2.65		52.0	40-140	19.9	25
Octadecane	1.59		0.33	mg/kg	2.65		60.0	40-140	18.1	25
Nonadecane	1.68		0.33	mg/kg	2.65		63.5	40-140	18.4	25
Eicosane	1.74		0.33	mg/kg	2.65		65.7	40-140	18.1	25
Docosane	1.81		0.33	mg/kg	2.65		68.2	40-140	16.2	25
Tetracosane	1.82		0.33	mg/kg	2.65		68.9	40-140	15.0	25
Hexacosane	1.81		0.33	mg/kg	2.65		68.4	40-140	14.5	25
Octacosane	1.79		0.33	mg/kg	2.65		67.6	40-140	13.9	25
Triacotane	1.78		0.33	mg/kg	2.65		67.1	40-140	12.4	25
Hexatriacontane	1.11		0.33	mg/kg	2.65		41.9	40-140	24.1	25
Surrogate: Chlorooctadecane			4.80	mg/kg	8.28		58.0	40-140		
Surrogate: o-Terphenyl			3.94	mg/kg	8.28		47.6	40-140		
Surrogate: 2-Fluorobiphenyl			3.72	mg/kg	3.31		112	40-140		
Surrogate: 2-Bromonaphthalene			3.80	mg/kg	3.31		115	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: B4H0405 - 1_Semivolatiles Extractions										
Blank (B4H0405-BLK1)					Prepared: 08/10/24 Analyzed: 08/13/24					
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						
Surrogate: Chlorooctadecane			4.91	mg/kg	8.28		59.4	40-140		
Surrogate: o-Terphenyl			6.08	mg/kg	8.28		73.5	40-140		
Surrogate: 2-Fluorobiphenyl			3.69	mg/kg	3.31		112	40-140		
Surrogate: 2-Bromonaphthalene			4.04	mg/kg	3.31		122	40-140		
LCS (B4H0405-BS1)					Prepared: 08/10/24 Analyzed: 08/13/24					
Naphthalene	1.70		0.33	mg/kg	2.65		64.3	40-140		
2-Methylnaphthalene	1.84		0.33	mg/kg	2.65		69.5	40-140		
Phenanthrene	1.93		0.33	mg/kg	2.65		72.7	40-140		
Acenaphthene	1.70		0.33	mg/kg	2.65		64.1	40-140		
Acenaphthylene	1.69		0.33	mg/kg	2.65		64.0	40-140		
Fluorene	1.79		0.33	mg/kg	2.65		67.7	40-140		
Anthracene	1.82		0.33	mg/kg	2.65		68.7	40-140		
Fluoranthene	2.04		0.33	mg/kg	2.65		77.0	40-140		
Pyrene	2.02		0.33	mg/kg	2.65		76.2	40-140		
Benzo(a)anthracene	2.17		0.33	mg/kg	2.65		81.8	40-140		
Chrysene	1.96		0.33	mg/kg	2.65		74.2	40-140		
Benzo(b)fluoranthene	1.93		0.33	mg/kg	2.65		72.9	40-140		
Benzo(k)fluoranthene	1.75		0.33	mg/kg	2.65		66.1	40-140		
Benzo(a)pyrene	1.92		0.33	mg/kg	2.65		72.6	40-140		
Indeno(1,2,3-cd)pyrene	1.81		0.33	mg/kg	2.65		68.4	40-140		
Dibenz(a,h)anthracene	1.82		0.33	mg/kg	2.65		68.6	40-140		
Benzo(g,h,i)perylene	1.80		0.33	mg/kg	2.65		67.9	40-140		
EPH_LCS_Aliphatic_C19-C36	10.3		0.00	mg/kg	21.2		48.6	40-140		
EPH_LCS_Aliphatic_C9-C18	6.50		0.00	mg/kg	15.9		40.9	40-140		
EPH_LCS_Aromatic_C11-C22	31.7		0.00	mg/kg	45.0		70.4	40-140		
Nonane	0.81		0.33	mg/kg	2.65		30.4	30-140		
Decane	1.06		0.33	mg/kg	2.65		40.2	40-140		
Dodecane	1.14		0.33	mg/kg	2.65		42.9	40-140		
Tetradecane	1.09		0.33	mg/kg	2.65		41.3	40-140		
Hexadecane	1.16		0.33	mg/kg	2.65		43.7	40-140		
Octadecane	1.24		0.33	mg/kg	2.65		46.8	40-140		
Nonadecane	1.33		0.33	mg/kg	2.65		50.4	40-140		
Eicosane	1.24		0.33	mg/kg	2.65		47.0	40-140		
Docosane	1.32		0.33	mg/kg	2.65		49.9	40-140		
Tetracosane	1.34		0.33	mg/kg	2.65		50.5	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: B4H0405 - 1_Semivolatiles Extractions (Continued)										
LCS (B4H0405-BS1)					Prepared: 08/10/24 Analyzed: 08/13/24					
Hexacosane	1.33		0.33	mg/kg	2.65		50.1	40-140		
Octacosane	1.30		0.33	mg/kg	2.65		49.0	40-140		
Triacontane	1.34		0.33	mg/kg	2.65		50.5	40-140		
Hexatriacontane	1.10		0.33	mg/kg	2.65		41.5	40-140		
Surrogate: Chlorooctadecane			3.57	mg/kg	8.28		43.1	40-140		
Surrogate: o-Terphenyl			5.50	mg/kg	8.28		66.4	40-140		
Surrogate: 2-Fluorobiphenyl			4.13	mg/kg	3.31		125	40-140		
Surrogate: 2-Bromonaphthalene			4.15	mg/kg	3.31		125	40-140		
LCS Dup (B4H0405-BSD1)					Prepared: 08/10/24 Analyzed: 08/13/24					
Naphthalene	1.53		0.33	mg/kg	2.65		57.6	40-140	11.0	25
2-Methylnaphthalene	1.66		0.33	mg/kg	2.65		62.5	40-140	10.6	25
Phenanthrene	1.78		0.33	mg/kg	2.65		67.1	40-140	7.94	25
Acenaphthene	1.55		0.33	mg/kg	2.65		58.6	40-140	9.05	25
Acenaphthylene	1.57		0.33	mg/kg	2.65		59.2	40-140	7.67	25
Fluorene	1.64		0.33	mg/kg	2.65		62.0	40-140	8.87	25
Anthracene	1.66		0.33	mg/kg	2.65		62.8	40-140	8.93	25
Fluoranthene	1.87		0.33	mg/kg	2.65		70.8	40-140	8.39	25
Pyrene	1.85		0.33	mg/kg	2.65		69.8	40-140	8.77	25
Benzo(a)anthracene	1.96		0.33	mg/kg	2.65		74.1	40-140	9.84	25
Chrysene	1.79		0.33	mg/kg	2.65		67.7	40-140	9.16	25
Benzo(b)fluoranthene	1.77		0.33	mg/kg	2.65		66.9	40-140	8.58	25
Benzo(k)fluoranthene	1.58		0.33	mg/kg	2.65		59.5	40-140	10.5	25
Benzo(a)pyrene	1.75		0.33	mg/kg	2.65		66.2	40-140	9.22	25
Indeno(1,2,3-cd)pyrene	1.64		0.33	mg/kg	2.65		62.1	40-140	9.70	25
Dibenz(a,h)anthracene	1.63		0.33	mg/kg	2.65		61.4	40-140	11.1	25
Benzo(g,h,i)perylene	1.58		0.33	mg/kg	2.65		59.6	40-140	13.1	25
EPH_LCS_Aliphatic_C19-C36	8.98		0.00	mg/kg	21.2		42.4	40-140	13.7	25
EPH_LCS_Aliphatic_C9-C18	6.69		0.00	mg/kg	15.9		42.1	40-140	2.95	25
EPH_LCS_Aromatic_C11-C22	28.8		0.00	mg/kg	45.0		64.0	40-140	9.53	25
Nonane	0.82		0.33	mg/kg	2.65		31.1	30-140	2.27	25
Decane	1.10		0.33	mg/kg	2.65		41.4	40-140	3.06	25
Dodecane	1.21		0.33	mg/kg	2.65		45.5	40-140	5.88	25
Tetradecane	1.15		0.33	mg/kg	2.65		43.6	40-140	5.48	25
Hexadecane	1.28		0.33	mg/kg	2.65		48.4	40-140	10.3	25
Octadecane	1.13		0.33	mg/kg	2.65		42.5	40-140	9.51	25
Nonadecane	1.29		0.33	mg/kg	2.65		48.8	40-140	3.13	25
Eicosane	1.08		0.33	mg/kg	2.65		40.6	40-140	14.5	25
Docosane	1.11		0.33	mg/kg	2.65		42.1	40-140	17.1	25
Tetracosane	1.13		0.33	mg/kg	2.65		42.5	40-140	17.3	25
Hexacosane	1.12		0.33	mg/kg	2.65		42.2	40-140	17.1	25
Octacosane	1.10		0.33	mg/kg	2.65		41.4	40-140	17.0	25
Triacontane	1.06		0.33	mg/kg	2.65		40.0	40-140	23.2	25
Hexatriacontane	1.10		0.33	mg/kg	2.65		41.3	40-140	0.302	25
Surrogate: Chlorooctadecane			3.45	mg/kg	8.28		41.7	40-140		
Surrogate: o-Terphenyl			5.25	mg/kg	8.28		63.4	40-140		
Surrogate: 2-Fluorobiphenyl			3.89	mg/kg	3.31		117	40-140		
Surrogate: 2-Bromonaphthalene			3.80	mg/kg	3.31		115	40-140		

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 Laborat

59 Greenhill Street
West Warwick, RI 02893

1-888-863-8522



4 H O 7007 *

Chain of Custody Record

Target P4Hs

pg 1 of 3

Project No. 2100.00		Project Name/Location: CUTLER ELEMENTARY			Matrix			No. of Containers	Preservative	Tests**							
Client: COW CONSULTANTS		Report To: ALAN SUNDQUIST								Invoice To: K. Shick			VOC's B260	VPH MADER	EPH (mcl-np)	MEP 14 metals	
Date	Time	Comp	Grab	Sample I.D.	Aqueous	Soil	Other										
8/5/24		X		GP-1 (0-5')		X		2..	M204/			X	X				
			X	GP-1 (4-5')		X		4....	ICB		X	X					
		X		GP-2 (0-5')		X		2..				X	X				
			X	GP-2 (4-5')		X		4....			X	X					
		X		GP-3 (1-6')		X		2..				X	X				
			X	GP-3 (5-6')		X		4....			X	X					
		X		GP-4 (0-5')		X		2..				X	X				
			X	GP-4 (5-6')		X		4....			X	X					
		X		GP-5 (0-6')		X		2..				X	X				
			X	GP-5 (5-6')		X		4....			X	X					
		X		GP-6 (10-15')		X		2..				X	X				
			X	GP-6 (13-15')		X		4....			X	X					
		X		GP-7 (10-15')		X		2..				X	X				
			X	GP-7 (13-15')		X		4....			X	X					
Sampled By:		Date/Time	Received By:		Date/Time	Laboratory Remarks:			Special Instructions:								
			R Shaw		8/7/24 0930												
Relinquished By:		Date/Time	Received By:		Date/Time	Temp. Received:											
R Shaw		8/7/24 16:00	J/R		8/7/24 1600	2											
**Netlab Subcontracts the following tests: Radiologicals, Radon, TOC, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates										Turnaround Time [Business Days]: 5 Days							

New England Testing Laboratory

59 Greenhill Street
West Warwick, RI 02893

1-888-863-8522

Chain of Custody Record

THERCSTY 07/16/06

px 273

Project No. 2100, 20		Project Name/Location: CUTLER ELEMENTARY				Matrix			No. of Containers	Preservative	Tests**										
Client: CDW CONSULTANTS		Report To: ALAN SUNDQUIST									100's 8260 WPH M0120 EPH (includg) IMP 14 Metals 1										
Invoice To: K. Shiek		Date	Time	Comp	Grab	Sample I.D.	Aqueous	Soil	Other												
		8/5/24		X	X	GP-8 (5-10')		X		2..											
					X	GP-8 (8-10')		X		7...											
				Y		GP-9 (5-10')		X		2..											
					X	GP-9 (8-10')		X		4...											
				X		GP-10 (1-6')		X		2..											
					X	GP-10 (4-6')		X		4...											
				X		GP-11 (1-6')		X		2..											
					X	GP-11 (4-6')		X		4...											
				X		GP-12 (5-10')		X		2..											
					X	GP-12 (8-10')		X		4...											
				X		GP-13 (5-10')		X		2..											
					X	GP-13 (8-10')		X		4...											
				X		GP-14 (5-10')		X		2..											
					X	GP-14 (8-10')		X		4...											
Sampled By:		Date/Time	Received By:		Date/Time	Laboratory Remarks:		Special Instructions:													
			R Shaw		8/7/24																
					0930																
Relinquished By:		Date/Time	Received By:		Date/Time	Temp. Received:															
R Shaw		8/7/24	MR		8/7/24	2															
		16:00			1600																
**Netlab Subcontracts the following tests: Radiologicals, Radon, TOC, Asbestos, UCMRs, Perchlorate, Bromate, Bromide, Sieve, Salmonella, Carbamates														Turnaround Time [Business Days]: 5 Days							

1-5

1-888-863-8522

pr 373

OK
Page 112 of 113

MassDEP Analytical Protocol Certification Form

Laboratory Name: New England Testing Laboratory, Inc.

Project #: 2100.00

Project Location: Cutler Elementary

RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
4H07007

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

CAM Protocol (check all that apply below):

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

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?	☒ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☒ Yes ☐ 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?	☒ Yes ☐ 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"?	☒ Yes ☐ 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?	☒ Yes ☐ No ☐ Yes ☐ 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)?	☒ Yes ☐ 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)?	☒ Yes ☐ 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?	☒ Yes ☐ No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☒ Yes ☐ 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: Mike McCallum

Date: 8/19/2024