O'Reilly, Talbot & Okun
ENGINEERING ASSOCIATES

File: 3242-05-01
October 8, 2021

EOS Farm, LLC.
1107 Baker Road
Pittsfield, MA 01201

Attn: Suehiko Ono, CEO

Re: Limited Soil Assessment
1311 East Street
Pittsfield, Massachusetts

Dear Mr. Ono:

O'Reilly, Talbot & Okun Associates, Inc. (OTO) is pleased to provide this report documenting our Limited Soil Assessment (LSA) at the above referenced location (the Site). A Site Locus is attached as Figure 1. This document was prepared on behalf of EOS Farm, LLC., and is subject to the Limitations attached in Appendix A.

BACKGROUND

A Phase I Environmental Site Assessment (ESA), performed by OTO in August 2021 on behalf of EOS Farm, identified two Recognized Environmental Conditions (RECs), as defined by the ASTM E1527-13 Standard for Phase I ESAs. The RECs are associated with a 10,000-gallon fuel oil underground storage tank (UST) removed from the Site in 1989, and an on-site gasoline UST depicted on a 1950 fire insurance map. OTO recommended subsurface assessment of soils in the vicinity of the identified UST locations.

TEST PITS AND SOIL SAMPLING ACTIVITIES

Under the observation of OTO, two test pits (TP-01 and TP-02) were excavated at the former UST locations on September 28, 2021, by Fabino & Lombardi Construction Services, Inc. of Pittsfield, Massachusetts. OTO logged the borings, field screened soil samples with a photo-ionization detector (PID) and retained soil samples for laboratory analysis. Soil descriptions and field data is summarized within the test pit logs in Appendix B. Test pit locations are shown on Figure 2.

The deepest sample from each test pit was submitted under chain of custody to Con-Test, a Pace Analytical Laboratory in East Longmeadow, Massachusetts. To evaluate for impacts to soil from migrating downward through the subsurface from historical gasoline and fuel oil USTs, each sample was analyzed by Con-Test for volatile and extractable petroleum hydrocarbons (VPH/EPH) and lead in accordance with Massachusetts Department of Environmental Protection (MassDEP) Waste Site Cleanup policy #02-411. A copy of the laboratory report is provided in Appendix C.

Laboratory results are summarized in Table 1 and compared to MassDEP published background values and the RCS-1 reportable concentrations listed in Massachusetts Contingency Plan (MCP) at 310 CMR 40.1600. The RCS-1 soil classifications is applicable since these test pit locations are within 500 feet of residential areas. As indicated, no VPH/EPH or lead were detected in the soil sample from TP-01. The sample from TP-02 contained petroleum hydrocarbons and lead above the RCS-1 reportable concentrations

OPINIONS AND CONCLUSION

Our limited soil assessment included the physical observation and field screening of soils, and the laboratory testing of soil samples. Pursuant to 310 CMR 40.0315 of the MCP, the petroleum and lead concentrations detected in the soil sample from test pit TP-02 are a condition which requires release notification to the MassDEP. Persons required to notify under 310 CMR 40.0331 shall inform MassDEP within 120 days after obtaining knowledge of a release to the environment indicated by the measurement of oil and hazardous material in soil in an amount equal to or greater than the applicable Reportable Concentration listed at 310 CMR 40.1600.

Further assessment is warranted to evaluate the source, nature, and extent of the petroleum and lead detected beneath the surface at test pit location TP-02. We note non-native fill materials were observed beneath the ground surface at both test pit locations. Non-native fill materials, such as those encountered at both test pits, if disturbed in the future should be properly managed on-site and may pose a potential future business environmental risk should the material need to be excavated, relocated or removed from the property.

We appreciate the opportunity to assist you on this project. Please contact us if you have any questions.

Sincerely,
O'Reilly, Talbot & Okun Associates, Inc.

Jonathan Hermanson
Environmental Scientist

Mark O'Malley
Project Manager

ec: The Law Offices of Michael E. MacDonald

Attachments:

TABLE

Table 1 Soil Analytical Results

FIGURES

Figure 1 Site Locus
Figure 2 Test Pit Locations

APPENDICES

Appendix A Limitations
Appendix B Test Pit Logs
Appendix C Laboratory Analytical Report

O:\J3200\3242 Michael MacDonald\05-01 1311 East St. Pittsfield, MA - LSA\Limited Subsurface Assessment Report

TABLES

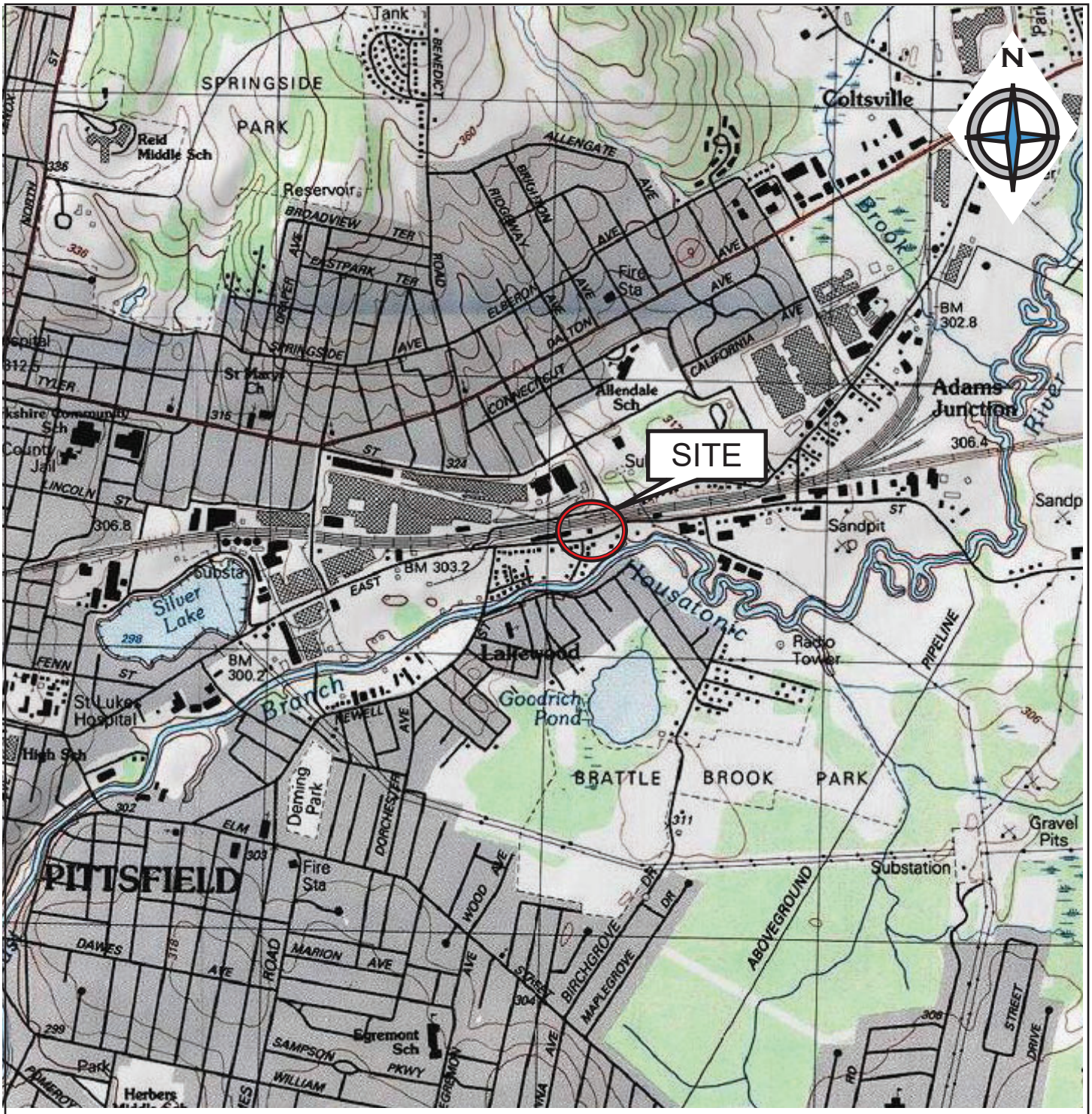
Table 1
Soil Analytical Results
1311 East Street, Pittsfield, Massachusetts

Sample No.:	TP-01	TP-02	MassDEP Ash Fill Background	Reportable Conc. RCS-1
Depth (feet):	9-10.5	7-8.5		
Date Collected:	9/28/21	9/28/21		
PID Reading (ppmv):	ND	9.7	--	--
VPH Fractions (mg/Kg)				
C5-C8 Aliphatics	ND (7.0)	ND (24)	--	100
C9-C12 Aliphatics	ND (7.0)	26	--	1,000
C9-C10 Aromatics	ND (7.0)	ND (24)	--	100
VPH Target Compounds (mg/Kg)				
Benzene	ND (0.035)	ND (0.12)	--	2
Ethylbenzene	ND (0.035)	0.19	--	40
Methyl tert-butyl ether	ND (0.035)	ND (0.12)	--	0.1
Naphthalene	ND (0.17)	2.5	--	4
Toluene	ND (0.035)	0.12	--	30
Xylenes (total)	ND (0.070)	0.31	--	100
EPH Fractions (mg/Kg)				
C9-C18 Aliphatics	ND (12)	**3,400**	--	1,000
C19-C36 Aliphatics	ND (12)	**8,800**	--	3,000
C11-C22 Aromatics	ND (12)	**10,000**	--	1,000
EPH Target Compounds (mg/Kg)				
Acenaphthene	ND (0.12)	**9.5**	2	4
Acenaphthylene	ND (0.12)	**6.8**	1	1
Anthracene	ND (0.12)	25	4	1,000
Benzo(a)anthracene	ND (0.12)	**44**	9	7
Benzo(a)pyrene	ND (0.12)	**34**	7	2
Benzo(b)fluoranthene	ND (0.12)	**42**	8	7
Benzo(g,h,i)perylene	ND (0.12)	16	3	1,000
Benzo(k)fluoranthene	ND (0.12)	16	4	70
Chrysene	ND (0.12)	44	7	70
Fluoranthene	ND (0.12)	98	10	1,000
Fluorene	ND (0.12)	21	2	1,000
Indeno(1,2,3-cd)pyrene	ND (0.12)	**18**	3	7
2-Methylnaphthalene	ND (0.12)	**33**	1	0.7
Naphthalene	ND (0.12)	**23**	1	4
Phenanthrene	ND (0.12)	**93**	20	10
Pyrene	ND (0.12)	120	20	1,000
Metals (mg/Kg)				
Lead	8.8	**430**	600	200

NOTES:

1. Concentrations in mg/kg (parts per million) on a dry weight basis.
2. "ND (#)" indicates not detected; value is sample-specific quantitation limit.
3. "RCS" = Reportable concentration from 310 CMR 40.1600.
4. Background values from MassDEP "Technical Update: Background Levels of Polycyclic Aromatic Hydrocarbons and Metals in Soil", May 23, 2002.
5. "PID"=Photoionization detector soil headspace measurement in parts per million by volume.
6. Values shown in **bold** are equal to or exceed Reportable Concentrations.
7. "VPH" = Volatile Petroleum Hydrocarbons.
8. "EPH" = Extractable Petroleum Hydrocarbons.
9. Refer to laboratory analytical report for further details.

FIGURES



Topographic Map Quadrant: Pittsfield East, MA
Map Version: 1997
Current as of: 1997

0 .5 1 MILE
0 1000 FEET 0 500 1000 METERS

Map created with TOPO!® ©2003 National Geographic (www.nationalgeographic.com/topo)

O'Reilly, Talbot & Okun
ENGINEERING ASSOCIATES

293 Bridge Street, Suite 500
Springfield, Massachusetts 01103

Phone: 413-788-6222
www.oto-env.com

1311 East Street
Pittsfield, Massachusetts

SITE LOCUS

August 2021

Figure 1

Source: GoogleEarth, c.2021. Aerial image date: 5/10/2014. Features added by OTO. All features are approximate.

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ENGINEERING ASSOCIATES

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Springfield, Massachusetts 01103

Phone: 413-788-6222
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1311 East Street
Pittsfield, Massachusetts

Test Pit Locations

October 2021

Figure 2

APPENDIX A

LIMITATIONS

1. The observations presented in this report were made under the conditions described herein. The conclusions presented in this report were based solely upon the services described in the report and not on scientific tasks or procedures beyond the scope of the project or the time and budgetary constraints imposed by the client.

2. In preparing the report, O'Reilly, Talbot & Okun Associates, Inc. relied on certain information provided by state and local officials and other parties referenced herein, and on information contained in the files of state or local regulatory agencies. Although there may have been some degree of overlap in the information provided by these sources, O'Reilly, Talbot & Okun Associates, Inc. did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this assessment.

3. Unless otherwise specified in the Report, we did not perform testing or analyses to determine the presence or concentration of asbestos or polychlorinated biphenyls (PCBs) at the Site or in the environment at the Site.

4. This Report assesses the physical characteristics of the subject site with respect to the presence of oil or hazardous material (OHM) in soil or groundwater at the Site, and to assess risks associated with detected OHM, within the meaning of the Massachusetts Contingency Plan, 310 CMR 40.0000. No specific attempt was made to check on the compliance of present or past owners or operators of the Site with federal, state, or local laws and regulations, environmental or otherwise.

5. Risk assessment was performed in accordance with generally accepted practices of government agencies and other consultants conducting similar characterizations. The findings of the risk characterization are dependent on numerous assumptions and uncertainties inherent in the risk assessment process. Therefore, the findings of the risk assessment should not be interpreted as an absolute characterization of actual risks, but as general indicators highlighting potential sources of risk at the Site. Although the range of uncertainty in the risk characterization has not (and can not) be quantified, the use of conservative assumptions throughout the process would be expected to err on the side of protection of human health and the environment.

6. Where analytical data or information regarding site environmental conditions was unavailable or limited, we render no opinion as to risks due to oil and/or hazardous materials in those portions of the Site, or to oil and/or hazardous materials not tested.

7. Our report was prepared for the exclusive benefit of the client. The report and its conclusions are not extended to third parties or future property owners. We acknowledge copies of our report may be submitted to Massachusetts Department of Environmental Protection for Massachusetts Contingency Plan compliance purposes.

APPENDIX B

O'Reilly, Talbot & Okun
ENGINEERING ASSOCIATES

LOG OF TEST PIT TP-01

PROJECT	1311 East Street			CONTRACTOR	Fabino & Lombardi
JOB NO.	3242-05-01	DATE	9/28/2021	OPERATOR	Chris
LOCATION	Pittsfield, MA	WEATHER	65 °F, overcast, 0-5 mph W	BACKHOE	Hyundai
TEST PIT LOCATION	West of Site building	START TIME	0825	CAPACITY (cy)	2/3
		FINISH TIME	0910	GS ELEV. (ft)	~999
		OTO STAFF	Jonathan Hermanson	FINAL DEPTH (ft)	10.5

DEPTH (ft)	SOIL DESCRIPTION	EXCAV. EFFORT	BOULDERS/ COBBLES COUNT	BOULDERS/ COBBLES CLASS	SAMPLE NO.	FIELD TEST DATA	REMARKS
1'	Top soil FILL, light brown sand, coal ash, brick, organics, trace silt, dry	E	--	--			
2'	FILL, light brown sand, coal ash, brick, organics, trace silt, dry	E	--	--	TP-01 (1-3)	ND	1
3'							
4'	FILL, light brown sand, coal ash, brick, organics, trace silt, dry	E	--	--	TP-01 (3-5)	ND	1
5'							
6'	FILL, light brown sand, coal ash, brick, organics, trace silt, dry	E	--	--	TP-01 (5-7)	ND	1
7'							
8'	FILL, light brown sand, coal ash, brick, organics, trace silt, dry	E	--	--	TP-01 (7-9)	ND	1
9'							
10'	Grayish brown fine SAND, some silt, little gravel, dry	E	--	--	TP-01 (9-10.5)	ND	1
11'	End of exploration at 10.5'						

TEST PIT PLAN

APPROXIMATE VOLUME = 19.5 cy

EXCAVATION EFFORT

Easy .....E
Moderate .....M
Difficult .....D
Very Difficult V

BOULDER/COBBLE CLASS

Type	Size	Abbr.
Cobble	3" - 6"	C
Small	6" - 18"	S
Medium	18" - 36"	M
Large	36" and Larger	L

PROPORTIONS USED

Term	Relative Quantity
and	35% - 50%
some	20% - 35%
little	10% - 20%
trace	10% or less

GROUNDWATER CONDITIONS

GW Encountered?: No
GW Depth (ft): NA
GW Elevation (ft): NA
Elapsed Time (min): NA

Remarks:

1. Soil screened in field using MiniRAE Lite photoionization detector (PID) referenced to benzene in air. Readings in parts per million by volume. "ND" indicates none detected.

PROJECT NO.

3242-05-01

LOG OF TEST PIT

TP-01

O'Reilly, Talbot & Okun
ENGINEERING ASSOCIATES

LOG OF TEST PIT TP-02

PROJECT	1311 East Street			CONTRACTOR	Fabino & Lombardi
JOB NO.	3242-05-01	DATE	9/28/2021	OPERATOR	Chris
LOCATION	Pittsfield, MA	WEATHER	65 °F, overcase, 0-5 mph W	BACKHOE	Hyundai
TEST PIT LOCATION	Northeast of Site building	START TIME	0930	CAPACITY (cy)	2/3
		FINISH TIME	1105	GS ELEV. (ft)	~994
		OTO STAFF	Jonathan Hermanson	FINAL DEPTH (ft)	8.5

DEPTH (ft)	SOIL DESCRIPTION	EXCAV. EFFORT	BOULDERS/ COBBLES COUNT	BOULDERS/ COBBLES CLASS	SAMPLE NO.	FIELD TEST DATA	REMARKS
1'	Asphalt FILL, light brown sand, coal ash, brick, organics, trace silt, dry	E	--	--			
2'	FILL, light brown sand, coal ash, brick, organics, trace silt, dry	E	--	--	TP-02 (1-3)	ND	1
3'							
4'	FILL, light brown sand, coal ash, brick, organics, trace silt, dry	E	--	--	TP-02 (3-5)	ND	1
5'							
6'	FILL, light brown sand, coal ash, brick, organics, trace silt, dry	E	--	--	TP-03 (5-7)	ND	1
7'							
8'	FILL, light brown sand, coal ash, brick, organics, trace silt, dry	E	--	--	TP-02 (7-8.5)	9.7	1 2
9'	End of exploration at 8.5'						
10'							
11'							

TEST PIT PLAN

8' × 12'

N

APPROXIMATE VOLUME = 30 cy

EXCAVATION EFFORT

Easy	E
Moderate	M
Difficult	D
Very Difficult	V

BOULDER/COBBLE CLASS

Type	Size	Abbr.
Cobble	3" - 6"	C
Small	6" - 18"	S
Medium	18" - 36"	M
Large	36" and Larger	L

PROPORTIONS USED

Term	Relative Quantity
and	35% - 50%
some	20% - 35%
little	10% - 20%
trace	10% or less

GROUNDWATER CONDITIONS

GW Encountered?:	No
GW Depth (ft):	NA
GW Elevation (ft):	NA
Elapsed Time (min):	NA

Remarks:

1. Soil screened in field using MiniRAE Lite photoionization detector (PID) referenced to benzene in air. Readings in parts per million by volume. "ND" indicates none detected.
2. Soil stained black with a hydrocarbon odor.

PROJECT NO.

3242-05-01

LOG OF TEST PIT

TP-02

APPENDIX C

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A Pace Analytical® Laboratory

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 8, 2021

Mark O'Malley
OTO Associates
293 Bridge St. Suite 500
Springfield, MA 01103

Project Location: Pittsfield, MA
Client Job Number:
Project Number: 3242-05-01
Laboratory Work Order Number: 21I1751

Enclosed are results of analyses for samples as received by the laboratory on September 30, 2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica L. Hoffman
Project Manager

Table of Contents

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

OTO Associates
293 Bridge St. Suite 500
Springfield, MA 01103
ATTN: Mark O'Malley

REPORT DATE: 10/8/2021

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 3242-05-01

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 21I1751

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Pittsfield, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TP-01 (9-10.5)	21I1751-01	Soil		MADEP EPH rev 2.1 MADEP-VPH-Feb 2018 Rev 2.1 SM 2540G SW-846 6010D	
TP-02 (7-8.5)	21I1751-02	Soil		MADEP EPH rev 2.1 MADEP-VPH-Feb 2018 Rev 2.1 SM 2540G SW-846 6010D	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

MADEP EPH rev 2.1

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Chlorooctadecane (COD)
21I1751-02RE1[TP-02 (7-8.5)]

o-Terphenyl (OTP)
21I1751-02RE1[TP-02 (7-8.5)]

S-02

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Analyte & Samples(s) Qualified:

Chlorooctadecane (COD)
21I1751-02[TP-02 (7-8.5)]

o-Terphenyl (OTP)
21I1751-02[TP-02 (7-8.5)]

MADEP-VPH-Feb 2018 Rev 2.1

Qualifications:

O-01

Soil/methanol ratio does not meet method specifications. Excess amount of soil. Sample was completely covered with methanol, but with less than the method-specified amount.

Analyte & Samples(s) Qualified:

21I1751-01[TP-01 (9-10.5)]

S-15

Surrogate recovery outside of control limits due to suspected sample matrix interference. Chromatogram(s) is attached.

Analyte & Samples(s) Qualified:

2,5-Dibromotoluene (PID)
21I1751-02[TP-02 (7-8.5)]

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

MADEP-VPH-Feb 2018 Rev 2.1

No significant modifications were made to the method. All VPH samples were received preserved properly in methanol with a soil/methanol ratio of 1:1 +/- 25% completely covered by methanol in the proper containers specified on the chain-of-custody form unless specified in this narrative.

Analytical column used for VPH analysis is Restek, Rtx-502.2, 105meter, 0.53mmID, 3um df. Trap used for VPH analysis is Carbopack B/CarboSieveS-III.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Technical Representative

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Pittsfield, MA | Sample Description: | Work Order: 21I1751

Date Received: 9/30/2021

Field Sample #: TP-01 (9-10.5) | Sampled: 9/28/2021 08:55

Sample ID: 21I1751-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP EPH rev 2.1	10/5/21	10/7/21 13:37	CJM
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP EPH rev 2.1	10/5/21	10/7/21 13:37	CJM
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP EPH rev 2.1	10/5/21	10/7/21 13:37	CJM
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP EPH rev 2.1	10/5/21	10/7/21 13:37	CJM
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP EPH rev 2.1	10/5/21	10/7/21 13:37	CJM
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP EPH rev 2.1	10/5/21	10/7/21 13:37	CJM
Anthracene	ND	0.12	mg/Kg dry	1		MADEP EPH rev 2.1	10/5/21	10/7/21 13:37	CJM
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP EPH rev 2.1	10/5/21	10/7/21 13:37	CJM
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP EPH rev 2.1	10/5/21	10/7/21 13:37	CJM
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP EPH rev 2.1	10/5/21	10/7/21 13:37	CJM
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP EPH rev 2.1	10/5/21	10/7/21 13:37	CJM
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP EPH rev 2.1	10/5/21	10/7/21 13:37	CJM
Chrysene	ND	0.12	mg/Kg dry	1		MADEP EPH rev 2.1	10/5/21	10/7/21 13:37	CJM
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP EPH rev 2.1	10/5/21	10/7/21 13:37	CJM
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP EPH rev 2.1	10/5/21	10/7/21 13:37	CJM
Fluorene	ND	0.12	mg/Kg dry	1		MADEP EPH rev 2.1	10/5/21	10/7/21 13:37	CJM
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP EPH rev 2.1	10/5/21	10/7/21 13:37	CJM
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP EPH rev 2.1	10/5/21	10/7/21 13:37	CJM
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP EPH rev 2.1	10/5/21	10/7/21 13:37	CJM
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP EPH rev 2.1	10/5/21	10/7/21 13:37	CJM
Pyrene	ND	0.12	mg/Kg dry	1		MADEP EPH rev 2.1	10/5/21	10/7/21 13:37	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Chlorooctadecane (COD)	57.0	40-140		10/7/21 13:37
o-Terphenyl (OTP)	55.9	40-140		10/7/21 13:37
2-Bromonaphthalene	93.4	40-140		10/7/21 13:37
2-Fluorobiphenyl	94.5	40-140		10/7/21 13:37

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Pittsfield, MA | Sample Description: | Work Order: 21I1751

Date Received: 9/30/2021

Field Sample #: TP-01 (9-10.5) | Sampled: 9/28/2021 08:55

Sample ID: 21I1751-01

Sample Matrix: Soil

Sample Flags: O-01

Soil/Methanol Preservation Ratio: 2.10

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	7.0	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/4/21	10/5/21 5:17	KMB
C5-C8 Aliphatics	ND	7.0	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/4/21	10/5/21 5:17	KMB
Unadjusted C9-C12 Aliphatics	ND	7.0	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/4/21	10/5/21 5:17	KMB
C9-C12 Aliphatics	ND	7.0	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/4/21	10/5/21 5:17	KMB
C9-C10 Aromatics	ND	7.0	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/4/21	10/5/21 5:17	KMB
Benzene	ND	0.035	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/4/21	10/5/21 5:17	KMB
Ethylbenzene	ND	0.035	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/4/21	10/5/21 5:17	KMB
Methyl tert-Butyl Ether (MTBE)	ND	0.035	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/4/21	10/5/21 5:17	KMB
Naphthalene	ND	0.17	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/4/21	10/5/21 5:17	KMB
Toluene	ND	0.035	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/4/21	10/5/21 5:17	KMB
m+p Xylene	ND	0.070	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/4/21	10/5/21 5:17	KMB
o-Xylene	ND	0.035	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/4/21	10/5/21 5:17	KMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,5-Dibromotoluene (FID)	76.8	70-130		10/5/21 5:17
2,5-Dibromotoluene (PID)	95.5	70-130		10/5/21 5:17

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Project Location: Pittsfield, MA | Sample Description: | Work Order: 21I1751

Date Received: 9/30/2021

Field Sample #: TP-01 (9-10.5) | Sampled: 9/28/2021 08:55

Sample ID: 21I1751-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	8.8	0.55	mg/Kg dry	1		SW-846 6010D	10/4/21	10/7/21 14:08	MJH

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Project Location: Pittsfield, MA | Sample Description: | Work Order: 21I1751

Date Received: 9/30/2021

Field Sample #: TP-01 (9-10.5) | Sampled: 9/28/2021 08:55

Sample ID: 21I1751-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.9		% Wt	1		SM 2540G	10/6/21	10/7/21 15:22	TDK

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Project Location: Pittsfield, MA | Sample Description: | Work Order: 21I1751

Date Received: 9/30/2021

Field Sample #: TP-02 (7-8.5) | Sampled: 9/28/2021 10:30

Sample ID: 21I1751-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	3400	860	mg/Kg dry	50		MADEP EPH rev 2.1	10/5/21	10/7/21 17:14	RMW
C19-C36 Aliphatics	8800	860	mg/Kg dry	50		MADEP EPH rev 2.1	10/5/21	10/7/21 17:14	RMW
Unadjusted C11-C22 Aromatics	11000	860	mg/Kg dry	50		MADEP EPH rev 2.1	10/5/21	10/7/21 17:14	RMW
C11-C22 Aromatics	10000	860	mg/Kg dry	50		MADEP EPH rev 2.1	10/5/21	10/7/21 17:14	RMW
Acenaphthene	9.5	0.86	mg/Kg dry	5		MADEP EPH rev 2.1	10/5/21	10/7/21 15:13	CJM
Acenaphthylene	6.8	0.86	mg/Kg dry	5		MADEP EPH rev 2.1	10/5/21	10/7/21 15:13	CJM
Anthracene	25	0.86	mg/Kg dry	5		MADEP EPH rev 2.1	10/5/21	10/7/21 15:13	CJM
Benzo(a)anthracene	44	0.86	mg/Kg dry	5		MADEP EPH rev 2.1	10/5/21	10/7/21 15:13	CJM
Benzo(a)pyrene	34	0.86	mg/Kg dry	5		MADEP EPH rev 2.1	10/5/21	10/7/21 15:13	CJM
Benzo(b)fluoranthene	42	0.86	mg/Kg dry	5		MADEP EPH rev 2.1	10/5/21	10/7/21 15:13	CJM
Benzo(g,h,i)perylene	16	0.86	mg/Kg dry	5		MADEP EPH rev 2.1	10/5/21	10/7/21 15:13	CJM
Benzo(k)fluoranthene	16	0.86	mg/Kg dry	5		MADEP EPH rev 2.1	10/5/21	10/7/21 15:13	CJM
Chrysene	44	0.86	mg/Kg dry	5		MADEP EPH rev 2.1	10/5/21	10/7/21 15:13	CJM
Dibenz(a,h)anthracene	ND	0.86	mg/Kg dry	5		MADEP EPH rev 2.1	10/5/21	10/7/21 15:13	CJM
Fluoranthene	98	0.86	mg/Kg dry	5		MADEP EPH rev 2.1	10/5/21	10/7/21 15:13	CJM
Fluorene	21	0.86	mg/Kg dry	5		MADEP EPH rev 2.1	10/5/21	10/7/21 15:13	CJM
Indeno(1,2,3-cd)pyrene	18	0.86	mg/Kg dry	5		MADEP EPH rev 2.1	10/5/21	10/7/21 15:13	CJM
2-Methylnaphthalene	33	0.86	mg/Kg dry	5		MADEP EPH rev 2.1	10/5/21	10/7/21 15:13	CJM
Naphthalene	23	0.86	mg/Kg dry	5		MADEP EPH rev 2.1	10/5/21	10/7/21 15:13	CJM
Phenanthrene	93	0.86	mg/Kg dry	5		MADEP EPH rev 2.1	10/5/21	10/7/21 15:13	CJM
Pyrene	120	0.86	mg/Kg dry	5		MADEP EPH rev 2.1	10/5/21	10/7/21 15:13	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Chlorooctadecane (COD)	*	40-140	S-02	10/7/21 15:13
Chlorooctadecane (COD)	*	40-140	S-01	10/7/21 17:14
o-Terphenyl (OTP)	*	40-140	S-02	10/7/21 15:13
o-Terphenyl (OTP)	*	40-140	S-01	10/7/21 17:14
2-Bromonaphthalene	101	40-140		10/7/21 15:13
2-Fluorobiphenyl	109	40-140		10/7/21 15:13

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Project Location: Pittsfield, MA | Sample Description: | Work Order: 21I1751

Date Received: 9/30/2021

Field Sample #: TP-02 (7-8.5) | Sampled: 9/28/2021 10:30

Sample ID: 21I1751-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 1.01

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	24	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/1/21	10/3/21 13:57	KMB
C5-C8 Aliphatics	ND	24	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/1/21	10/3/21 13:57	KMB
Unadjusted C9-C12 Aliphatics	27	24	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/1/21	10/3/21 13:57	KMB
C9-C12 Aliphatics	26	24	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/1/21	10/3/21 13:57	KMB
C9-C10 Aromatics	ND	24	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/1/21	10/3/21 13:57	KMB
Benzene	ND	0.12	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/1/21	10/3/21 13:57	KMB
Ethylbenzene	0.19	0.12	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/1/21	10/3/21 13:57	KMB
Methyl tert-Butyl Ether (MTBE)	ND	0.12	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/1/21	10/3/21 13:57	KMB
Naphthalene	2.5	0.61	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/1/21	10/3/21 13:57	KMB
Toluene	0.12	0.12	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/1/21	10/3/21 13:57	KMB
m+p Xylene	0.31	0.24	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/1/21	10/3/21 13:57	KMB
o-Xylene	0.15	0.12	mg/Kg dry	1		MADEP-VPH-Feb 2018 Rev 2.1	10/1/21	10/3/21 13:57	KMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,5-Dibromotoluene (FID)	116	70-130		10/3/21 13:57
2,5-Dibromotoluene (PID)	**134** *	70-130	S-15	10/3/21 13:57

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Project Location: Pittsfield, MA | Sample Description: | Work Order: 21I1751

Date Received: 9/30/2021

Field Sample #: TP-02 (7-8.5) | Sampled: 9/28/2021 10:30

Sample ID: 21I1751-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	430	0.83	mg/Kg dry	1		SW-846 6010D	10/4/21	10/7/21 14:20	MJH

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Project Location: Pittsfield, MA | Sample Description: | Work Order: 21I1751

Date Received: 9/30/2021

Field Sample #: TP-02 (7-8.5) | Sampled: 9/28/2021 10:30

Sample ID: 21I1751-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	58.2		% Wt	1		SM 2540G	10/6/21	10/7/21 15:22	TDK

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Sample Extraction Data

Prep Method: SW-846 3546 **Analytical Method: MADEP EPH rev 2.1**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21I1751-01 [TP-01 (9-10.5)]	B291735	20.0	2.00	10/05/21
21I1751-02 [TP-02 (7-8.5)]	B291735	20.0	2.00	10/05/21
21I1751-02RE1 [TP-02 (7-8.5)]	B291735	20.0	2.00	10/05/21

Prep Method: MA VPH **Analytical Method: MADEP-VPH-Feb 2018 Rev 2.1**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21I1751-02 [TP-02 (7-8.5)]	B291514	15.1	21.3	10/01/21

Prep Method: MA VPH **Analytical Method: MADEP-VPH-Feb 2018 Rev 2.1**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21I1751-01 [TP-01 (9-10.5)]	B291644	31.5	19.1	10/04/21

Prep Method: % Solids **Analytical Method: SM 2540G**

Lab Number [Field ID]	Batch	Date
21I1751-01 [TP-01 (9-10.5)]	B291896	10/06/21
21I1751-02 [TP-02 (7-8.5)]	B291896	10/06/21

Prep Method: SW-846 3050B **Analytical Method: SW-846 6010D**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
21I1751-01 [TP-01 (9-10.5)]	B291685	1.56	50.0	10/04/21
21I1751-02 [TP-02 (7-8.5)]	B291685	1.55	50.0	10/04/21

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B291735 - SW-846 3546										
Blank (B291735-BLK1)				Prepared: 10/05/21 Analyzed: 10/07/21						
C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet							
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	*3.33*		mg/Kg wet	5.00		66.5	40-140			
Surrogate: o-Terphenyl (OTP)	*3.85*		mg/Kg wet	5.00		77.1	40-140			
Surrogate: 2-Bromonaphthalene	*4.62*		mg/Kg wet	5.00		92.4	40-140			
Surrogate: 2-Fluorobiphenyl	*4.67*		mg/Kg wet	5.00		93.4	40-140			
LCS (B291735-BS1)				Prepared: 10/05/21 Analyzed: 10/07/21						
C9-C18 Aliphatics	22.6	10	mg/Kg wet	30.0		75.3	40-140			
C19-C36 Aliphatics	36.5	10	mg/Kg wet	40.0		91.2	40-140			
Unadjusted C11-C22 Aromatics	75.4	10	mg/Kg wet	85.0		88.7	40-140			
Acenaphthene	3.37	0.10	mg/Kg wet	5.00		67.4	40-140			
Acenaphthylene	3.18	0.10	mg/Kg wet	5.00		63.7	40-140			
Anthracene	3.86	0.10	mg/Kg wet	5.00		77.3	40-140			
Benzo(a)anthracene	4.39	0.10	mg/Kg wet	5.00		87.8	40-140			
Benzo(a)pyrene	4.34	0.10	mg/Kg wet	5.00		86.8	40-140			
Benzo(b)fluoranthene	4.71	0.10	mg/Kg wet	5.00		94.2	40-140			
Benzo(g,h,i)perylene	3.95	0.10	mg/Kg wet	5.00		78.9	40-140			
Benzo(k)fluoranthene	3.54	0.10	mg/Kg wet	5.00		70.8	40-140			
Chrysene	4.11	0.10	mg/Kg wet	5.00		82.2	40-140			
Dibenz(a,h)anthracene	4.22	0.10	mg/Kg wet	5.00		84.4	40-140			
Fluoranthene	3.92	0.10	mg/Kg wet	5.00		78.4	40-140			
Fluorene	3.49	0.10	mg/Kg wet	5.00		69.8	40-140			
Indeno(1,2,3-cd)pyrene	3.96	0.10	mg/Kg wet	5.00		79.3	40-140			
2-Methylnaphthalene	3.13	0.10	mg/Kg wet	5.00		62.7	40-140			
Naphthalene	2.97	0.10	mg/Kg wet	5.00		59.4	40-140			
Phenanthrene	3.86	0.10	mg/Kg wet	5.00		77.2	40-140			
Pyrene	4.07	0.10	mg/Kg wet	5.00		81.3	40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*3.58*		mg/Kg wet	5.00		71.6	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B291735 - SW-846 3546										
LCS (B291735-BS1)				Prepared: 10/05/21 Analyzed: 10/07/21						
Surrogate: o-Terphenyl (OTP)	*3.42*		mg/Kg wet	5.00		68.4	40-140			
Surrogate: 2-Bromonaphthalene	*4.23*		mg/Kg wet	5.00		84.7	40-140			
Surrogate: 2-Fluorobiphenyl	*4.24*		mg/Kg wet	5.00		84.9	40-140			
LCS Dup (B291735-BSD1)				Prepared: 10/05/21 Analyzed: 10/07/21						
C9-C18 Aliphatics	22.5	10	mg/Kg wet	30.0		74.9	40-140	0.529	25	
C19-C36 Aliphatics	34.9	10	mg/Kg wet	40.0		87.2	40-140	4.47	25	
Unadjusted C11-C22 Aromatics	81.2	10	mg/Kg wet	85.0		95.5	40-140	7.42	25	
Acenaphthene	3.78	0.10	mg/Kg wet	5.00		75.6	40-140	11.4	25	
Acenaphthylene	3.59	0.10	mg/Kg wet	5.00		71.8	40-140	12.0	25	
Anthracene	4.26	0.10	mg/Kg wet	5.00		85.2	40-140	9.76	25	
Benzo(a)anthracene	4.67	0.10	mg/Kg wet	5.00		93.4	40-140	6.19	25	
Benzo(a)pyrene	4.60	0.10	mg/Kg wet	5.00		92.1	40-140	5.92	25	
Benzo(b)fluoranthene	4.99	0.10	mg/Kg wet	5.00		99.8	40-140	5.70	25	
Benzo(g,h,i)perylene	4.19	0.10	mg/Kg wet	5.00		83.8	40-140	6.02	25	
Benzo(k)fluoranthene	3.76	0.10	mg/Kg wet	5.00		75.1	40-140	5.88	25	
Chrysene	4.38	0.10	mg/Kg wet	5.00		87.6	40-140	6.26	25	
Dibenz(a,h)anthracene	4.48	0.10	mg/Kg wet	5.00		89.6	40-140	5.96	25	
Fluoranthene	4.25	0.10	mg/Kg wet	5.00		85.1	40-140	8.12	25	
Fluorene	3.87	0.10	mg/Kg wet	5.00		77.4	40-140	10.3	25	
Indeno(1,2,3-cd)pyrene	4.20	0.10	mg/Kg wet	5.00		84.0	40-140	5.77	25	
2-Methylnaphthalene	3.61	0.10	mg/Kg wet	5.00		72.2	40-140	14.2	25	
Naphthalene	3.46	0.10	mg/Kg wet	5.00		69.2	40-140	15.4	25	
Phenanthrene	4.26	0.10	mg/Kg wet	5.00		85.3	40-140	9.93	25	
Pyrene	4.37	0.10	mg/Kg wet	5.00		87.5	40-140	7.31	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*3.45*		mg/Kg wet	5.00		68.9	40-140			
Surrogate: o-Terphenyl (OTP)	*3.80*		mg/Kg wet	5.00		75.9	40-140			
Surrogate: 2-Bromonaphthalene	*4.71*		mg/Kg wet	5.00		94.3	40-140			
Surrogate: 2-Fluorobiphenyl	*4.74*		mg/Kg wet	5.00		94.7	40-140			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B291514 - MA VPH										
Blank (B291514-BLK1)				Prepared: 10/01/21 Analyzed: 10/03/21						
Unadjusted C5-C8 Aliphatics	ND	10	mg/Kg wet							
C5-C8 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C10 Aromatics	ND	10	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Butylcyclohexane	ND	0.050	mg/Kg wet							
Decane	ND	0.050	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
2-Methylpentane	ND	0.050	mg/Kg wet							
Naphthalene	ND	0.25	mg/Kg wet							
Nonane	ND	0.050	mg/Kg wet							
Pentane	ND	0.050	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
2,2,4-Trimethylpentane	ND	0.050	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 2,5-Dibromotoluene (FID)	*36.4*		µg/L	40.0		91.0	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*41.8*		µg/L	40.0		105	70-130			
LCS (B291514-BS1)				Prepared: 10/01/21 Analyzed: 10/03/21						
Benzene	0.0495	0.0010	mg/Kg wet	0.0500		98.9	70-130			
Butylcyclohexane	0.0585	0.0010	mg/Kg wet	0.0500		117	70-130			
Decane	0.0432	0.0010	mg/Kg wet	0.0500		86.4	70-130			
Ethylbenzene	0.0496	0.0010	mg/Kg wet	0.0500		99.2	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0485	0.0010	mg/Kg wet	0.0500		97.0	70-130			
2-Methylpentane	0.0422	0.0010	mg/Kg wet	0.0500		84.4	70-130			
Naphthalene	0.0561	0.0050	mg/Kg wet	0.0500		112	70-130			
Nonane	0.0587	0.0010	mg/Kg wet	0.0500		117	30-130			
Pentane	0.0433	0.0010	mg/Kg wet	0.0500		86.7	70-130			
Toluene	0.0489	0.0010	mg/Kg wet	0.0500		97.8	70-130			
1,2,4-Trimethylbenzene	0.0464	0.0010	mg/Kg wet	0.0500		92.9	70-130			
2,2,4-Trimethylpentane	0.0379	0.0010	mg/Kg wet	0.0500		75.9	70-130			
m+p Xylene	0.0979	0.0020	mg/Kg wet	0.100		97.9	70-130			
o-Xylene	0.0498	0.0010	mg/Kg wet	0.0500		99.6	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	*40.7*		µg/L	40.0		102	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*47.8*		µg/L	40.0		120	70-130			
LCS Dup (B291514-BSD1)				Prepared: 10/01/21 Analyzed: 10/03/21						
Benzene	0.0489	0.0010	mg/Kg wet	0.0500		97.9	70-130	1.05	25	
Butylcyclohexane	0.0580	0.0010	mg/Kg wet	0.0500		116	70-130	0.836	25	
Decane	0.0426	0.0010	mg/Kg wet	0.0500		85.1	70-130	1.48	25	
Ethylbenzene	0.0492	0.0010	mg/Kg wet	0.0500		98.4	70-130	0.759	25	
Methyl tert-Butyl Ether (MTBE)	0.0503	0.0010	mg/Kg wet	0.0500		101	70-130	3.61	25	
2-Methylpentane	0.0405	0.0010	mg/Kg wet	0.0500		81.0	70-130	4.18	25	
Naphthalene	0.0583	0.0050	mg/Kg wet	0.0500		117	70-130	3.85	25	
Nonane	0.0578	0.0010	mg/Kg wet	0.0500		116	30-130	1.59	25	
Pentane	0.0417	0.0010	mg/Kg wet	0.0500		83.3	70-130	3.93	25	
Toluene	0.0483	0.0010	mg/Kg wet	0.0500		96.7	70-130	1.09	25	
1,2,4-Trimethylbenzene	0.0464	0.0010	mg/Kg wet	0.0500		92.7	70-130	0.185	25	

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B291514 - MA VPH										
LCS Dup (B291514-BSD1)				Prepared: 10/01/21 Analyzed: 10/03/21						
2,2,4-Trimethylpentane	0.0369	0.0010	mg/Kg wet	0.0500		73.9	70-130	2.65	25	
m+p Xylene	0.0970	0.0020	mg/Kg wet	0.100		97.0	70-130	0.881	25	
o-Xylene	0.0496	0.0010	mg/Kg wet	0.0500		99.3	70-130	0.360	25	
Surrogate: 2,5-Dibromotoluene (FID)	*46.6*		µg/L	40.0		116	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*50.1*		µg/L	40.0		125	70-130			
Batch B291644 - MA VPH										
Blank (B291644-BLK1)				Prepared & Analyzed: 10/04/21						
Unadjusted C5-C8 Aliphatics	ND	10	mg/Kg wet							
C5-C8 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C10 Aromatics	ND	10	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Butylcyclohexane	ND	0.050	mg/Kg wet							
Decane	ND	0.050	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
2-Methylpentane	ND	0.050	mg/Kg wet							
Naphthalene	ND	0.25	mg/Kg wet							
Nonane	ND	0.050	mg/Kg wet							
Pentane	ND	0.050	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
2,2,4-Trimethylpentane	ND	0.050	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 2,5-Dibromotoluene (FID)	*33.1*		µg/L	40.0		82.7	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*40.7*		µg/L	40.0		102	70-130			
LCS (B291644-BS1)				Prepared & Analyzed: 10/04/21						
Benzene	0.0474	0.0010	mg/Kg wet	0.0500		94.7	70-130			
Butylcyclohexane	0.0577	0.0010	mg/Kg wet	0.0500		115	70-130			
Decane	0.0423	0.0010	mg/Kg wet	0.0500		84.6	70-130			
Ethylbenzene	0.0473	0.0010	mg/Kg wet	0.0500		94.5	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0511	0.0010	mg/Kg wet	0.0500		102	70-130			
2-Methylpentane	0.0412	0.0010	mg/Kg wet	0.0500		82.4	70-130			
Naphthalene	0.0582	0.0050	mg/Kg wet	0.0500		116	70-130			
Nonane	0.0576	0.0010	mg/Kg wet	0.0500		115	30-130			
Pentane	0.0426	0.0010	mg/Kg wet	0.0500		85.1	70-130			
Toluene	0.0472	0.0010	mg/Kg wet	0.0500		94.4	70-130			
1,2,4-Trimethylbenzene	0.0465	0.0010	mg/Kg wet	0.0500		93.1	70-130			
2,2,4-Trimethylpentane	0.0369	0.0010	mg/Kg wet	0.0500		73.8	70-130			
m+p Xylene	0.0941	0.0020	mg/Kg wet	0.100		94.1	70-130			
o-Xylene	0.0480	0.0010	mg/Kg wet	0.0500		96.1	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	*43.9*		µg/L	40.0		110	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*45.8*		µg/L	40.0		114	70-130			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B291644 - MA VPH										
LCS Dup (B291644-BSD1)				Prepared & Analyzed: 10/04/21						
Benzene	0.0475	0.0010	mg/Kg wet	0.0500		95.1	70-130	0.386	25	
Butylcyclohexane	0.0572	0.0010	mg/Kg wet	0.0500		114	70-130	0.798	25	
Decane	0.0422	0.0010	mg/Kg wet	0.0500		84.4	70-130	0.215	25	
Ethylbenzene	0.0476	0.0010	mg/Kg wet	0.0500		95.2	70-130	0.704	25	
Methyl tert-Butyl Ether (MTBE)	0.0502	0.0010	mg/Kg wet	0.0500		100	70-130	1.71	25	
2-Methylpentane	0.0421	0.0010	mg/Kg wet	0.0500		84.2	70-130	2.22	25	
Naphthalene	0.0571	0.0050	mg/Kg wet	0.0500		114	70-130	1.98	25	
Nonane	0.0575	0.0010	mg/Kg wet	0.0500		115	30-130	0.203	25	
Pentane	0.0432	0.0010	mg/Kg wet	0.0500		86.4	70-130	1.50	25	
Toluene	0.0475	0.0010	mg/Kg wet	0.0500		95.0	70-130	0.688	25	
1,2,4-Trimethylbenzene	0.0463	0.0010	mg/Kg wet	0.0500		92.7	70-130	0.452	25	
2,2,4-Trimethylpentane	0.0374	0.0010	mg/Kg wet	0.0500		74.9	70-130	1.54	25	
m+p Xylene	0.0947	0.0020	mg/Kg wet	0.100		94.7	70-130	0.630	25	
o-Xylene	0.0481	0.0010	mg/Kg wet	0.0500		96.2	70-130	0.110	25	
Surrogate: 2,5-Dibromotoluene (FID)	*42.9*		µg/L	40.0		107	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*45.6*		µg/L	40.0		114	70-130			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B291685 - SW-846 3050B										
Blank (B291685-BLK1)				Prepared: 10/04/21 Analyzed: 10/07/21						
Lead	ND	0.48	mg/Kg wet							
LCS (B291685-BS1)				Prepared: 10/04/21 Analyzed: 10/07/21						
Lead	134	1.5	mg/Kg wet	140		96.1	82.9-117.1			
LCS Dup (B291685-BSD1)				Prepared: 10/04/21 Analyzed: 10/07/21						
Lead	132	1.5	mg/Kg wet	140		94.1	82.9-117.1	2.09	30	
Duplicate (B291685-DUP1)		**Source: 21I1751-01**		Prepared: 10/04/21 Analyzed: 10/07/21						
Lead	8.16	0.54	mg/Kg dry		8.78			7.40	35	
Matrix Spike (B291685-MS1)		**Source: 21I1751-01**		Prepared: 10/04/21 Analyzed: 10/07/21						
Lead	23.0	0.56	mg/Kg dry	18.7	8.78	76.2	75-125			
Reference (B291685-SRM1) MRL CHECK				Prepared: 10/04/21 Analyzed: 10/07/21						
Lead	0.409	0.49	mg/Kg wet	0.492		83.2	80-120			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
O-01	Soil/methanol ratio does not meet method specifications. Excess amount of soil. Sample was completely covered with methanol, but with less than the method-specified amount.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
S-15	Surrogate recovery outside of control limits due to suspected sample matrix interference. Chromatogram(s) is attached.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP EPH rev 2.1 in Soil	
C9-C18 Aliphatics	CT,NC,ME,NH-P
C19-C36 Aliphatics	CT,NC,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,ME,NH-P
C11-C22 Aromatics	CT,NC,ME,NH-P
Acenaphthene	CT,NC,ME,NH-P
Acenaphthylene	CT,NC,ME,NH-P
Anthracene	CT,NC,ME,NH-P
Benzo(a)anthracene	CT,NC,ME,NH-P
Benzo(a)pyrene	CT,NC,ME,NH-P
Benzo(b)fluoranthene	CT,NC,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,ME,NH-P
Benzo(k)fluoranthene	CT,NC,ME,NH-P
Chrysene	CT,NC,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,ME,NH-P
Fluoranthene	CT,NC,ME,NH-P
Fluorene	CT,NC,ME
Indeno(1,2,3-cd)pyrene	CT,NC,ME,NH-P
2-Methylnaphthalene	CT,NC
Naphthalene	CT,NC,ME,NH-P
Phenanthrene	CT,NC,ME,NH-P
Pyrene	CT,NC,ME,NH-P
MADEP EPH rev 2.1 in Water	
C9-C18 Aliphatics	CT,NC,ME,NH-P
C19-C36 Aliphatics	CT,NC,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,ME,NH-P
C11-C22 Aromatics	CT,NC,ME,NH-P
Acenaphthene	CT,NC,ME,NH-P
Acenaphthylene	CT,NC,ME,NH-P
Anthracene	CT,NC,ME,NH-P
Benzo(a)anthracene	CT,NC,ME,NH-P
Benzo(a)pyrene	CT,NC,ME,NH-P
Benzo(b)fluoranthene	CT,NC,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,ME,NH-P
Benzo(k)fluoranthene	CT,NC,ME,NH-P
Chrysene	CT,NC,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,ME,NH-P
Fluoranthene	CT,NC,ME,NH-P
Fluorene	CT,NC,ME
Indeno(1,2,3-cd)pyrene	CT,NC,ME,NH-P
2-Methylnaphthalene	CT,NC
Naphthalene	CT,NC,ME,NH-P
Phenanthrene	CT,NC,ME,NH-P
Pyrene	CT,NC,ME,NH-P
MADEP-VPH-Feb 2018 Rev 2.1 in Soil	
Unadjusted C5-C8 Aliphatics	CT,NC,ME,NH-P
C5-C8 Aliphatics	CT,NC,ME,NH-P

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-VPH-Feb 2018 Rev 2.1 in Soil	
Unadjusted C9-C12 Aliphatics	CT,NC,ME,NH-P
C9-C12 Aliphatics	CT,NC,ME,NH-P
C9-C10 Aromatics	CT,NC,ME,NH-P
Benzene	CT,NC,ME,NH-P
Ethylbenzene	CT,NC,ME,NH-P
Methyl tert-Butyl Ether (MTBE)	CT,NC,ME,NH-P
Naphthalene	CT,NC,ME,NH-P
Toluene	CT,NC,ME,NH-P
m+p Xylene	CT,NC,ME,NH-P
o-Xylene	CT,NC,ME,NH-P
SW-846 6010D in Soil	
Lead	CT,NH,NY,AIHA,ME,VA,NC

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Publilc Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2022
RI	Rhode Island Department of Health	LAO00112	12/30/2021
NC	North Carolina Div. of Water Quality	652	12/31/2021
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2021
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

21E1751

Pace Analytical®

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Fax: 413-525-6405
Access COC's and Support Requests

http://www.pacelabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 5_07/13/2021

Page ___ of ___

Company Name: CTO
Address: 243 Birnie St, Ste 501, Springfield, MA 01103
Phone: 413-788-6222
Project Name: 1311 East
Project Location: Ditchfield MA
Project Number: ~~3240-01-0240~~ 3242-05-01
Project Manager: Mark O'Malley
Pace Quote Name/Number:
Invoice Recipient: CTO
Sampled By: JH

Requested Turnaround Time
7-Day ☐ 10-Day ☐
PFAS 10-Day (std) ☐ Due Date:

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: OMALLEY@CTOENV.com
Fax To #: Hermans@CTO-ENV.com

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

PCB ONLY
SOXHLET ☐
NON SOXHLET ☐

ANALYSIS REQUESTED

Pace Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	EPH - ~~0.5~~ MD	VPH	Lead
1	TP-01 (9-10.5)	0855	9-28-21	Comp	SL	U	3	1				X	X	X
2	TP-02 (7-8)	1030	9-28-21	Comp	S	U	3	1				X	X	X

9-28-21

[2] Preservation Code
Courier Use Only
Total Number Of:
VIALS
GLASS
PLASTIC
BACTERIA
ENCORE

Glassware in the fridge? Y / N
~~Glassware in freezer? Y / N~~
Prepackaged Cooler? Y / N
*Pace Analytical is not responsible for missing samples from prepacked coolers

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Relinquished by: (signature)	Date/Time:
Mark O'Malley	9/28/21
Received by: (signature)	Date/Time:
	9/29/21 937
Relinquished by: (signature)	Date/Time:
	9/30/21 1405
Received by: (signature)	Date/Time:
	9/30 1405
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Client Comments:
Standard TAT

Detection Limits Requirements
RM: 1-1,2-2,3-3
4-4,5-5
CT:
Other:

Special Requirements
☒ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

Lab Comments:

Disclaimer: Pace Analytical is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Pace Analytical values your partnership on each project and will try to assist with missing information, but will not be held accountable.

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client OTD

Received By [signature] Date 9/30/21 Time 1405

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 3 Actual Temp - 2.6

By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? n/a Were Samples Tampered with? n/a

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? n/a MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid n/a Base n/a

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	2
Meoh-	2	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear	
DI-		Other Glass		Other Plastic		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

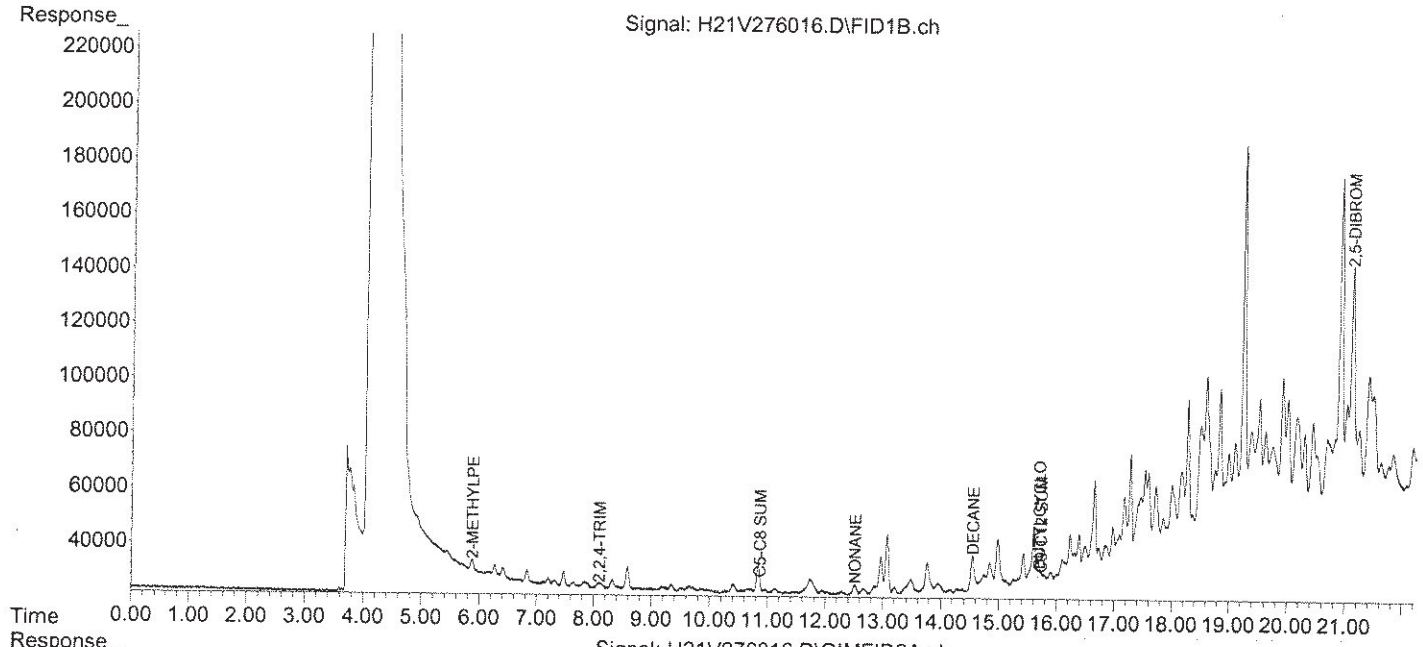
Comments:

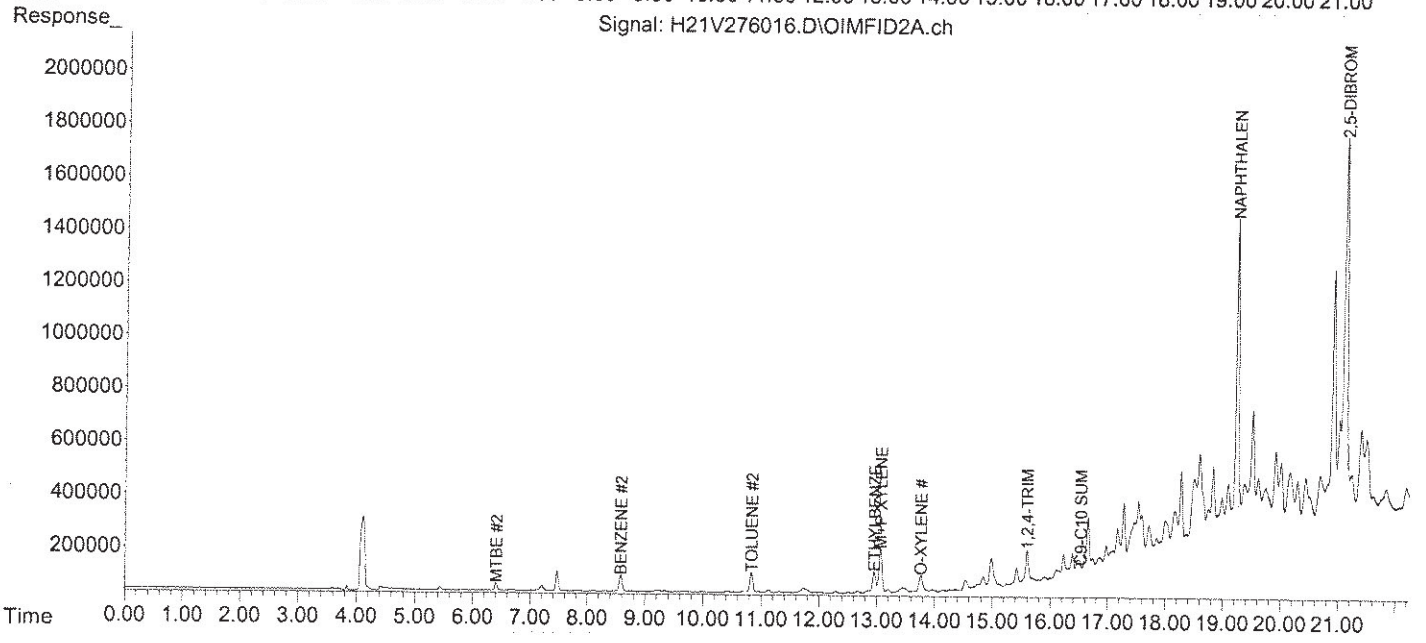
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100321\
Data File : H21V276016.D
Signal(s) : Signal #1: FID1B.ch Signal #2: OIMFID2A.ch
Acq On : 03 Oct 2021 01:57 pm
Operator :
Sample : 21I1751-02 @ 50X MEOH Inst : VPHGC3
Misc :
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 04 09:39:02 2021
Quant Method : C:\msdchem\1\methods\VO20421.M
Quant Title : VPHNEW
QLast Update : Mon Sep 27 13:00:52 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



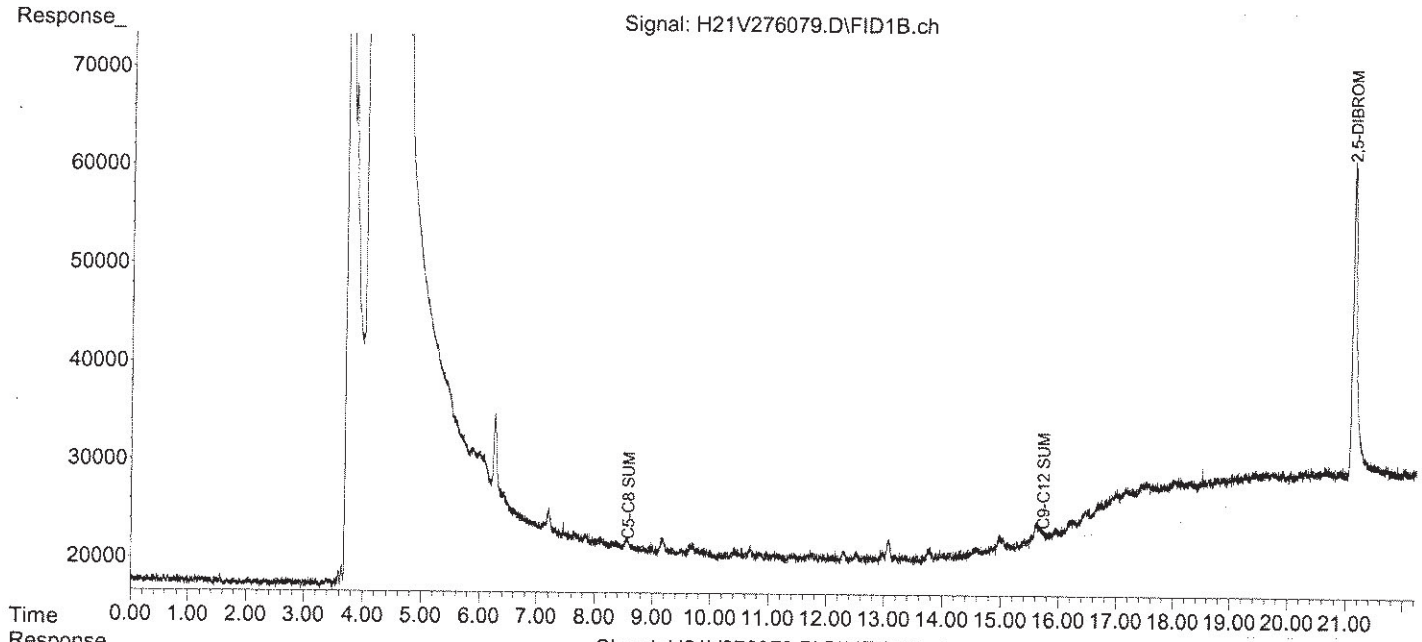


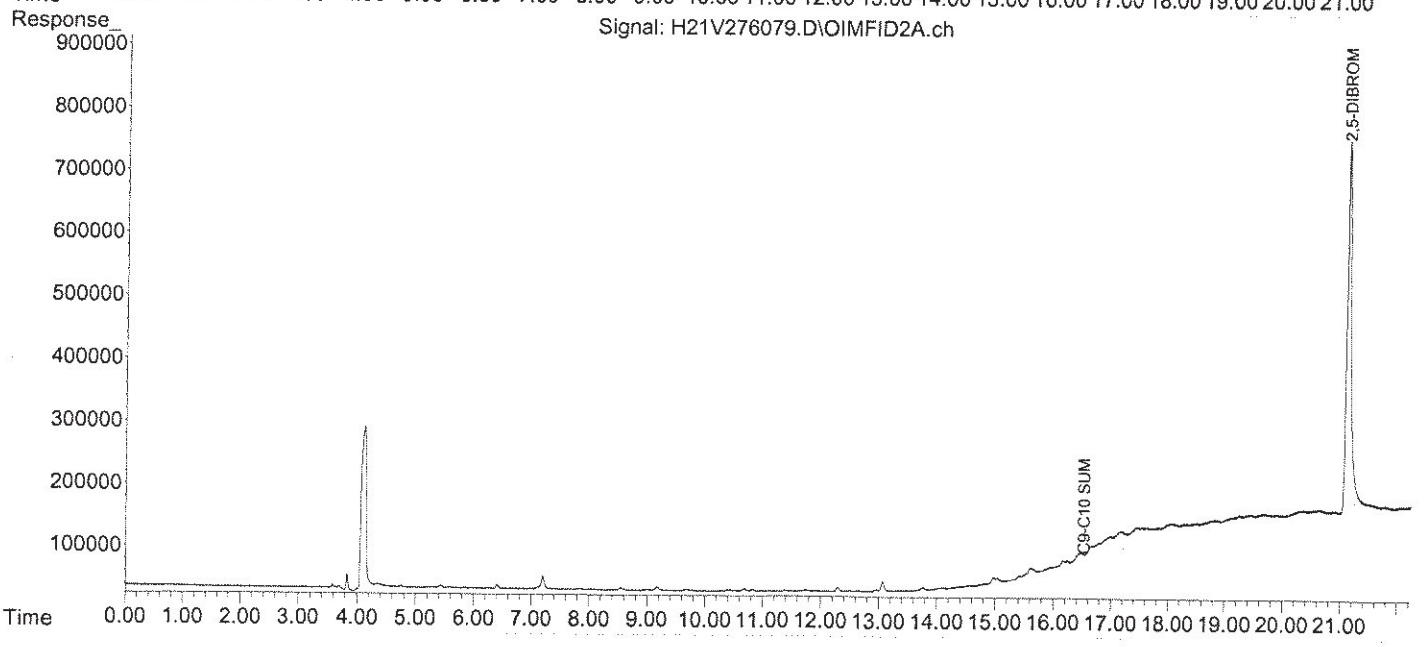
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\100321\
Data File : H21V276079.D
Signal(s) : Signal #1: FID1B.ch Signal #2: OIMFID2A.ch
Acq On : 05 Oct 2021 05:17 am
Operator :
Sample : 21I1751-01 @ 50X MEOH Inst : VPHGC3
Misc :
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 05 09:22:36 2021
Quant Method : C:\msdchem\1\methods\VO20421.M
Quant Title : VPHNEW
QLast Update : Mon Sep 27 13:00:52 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



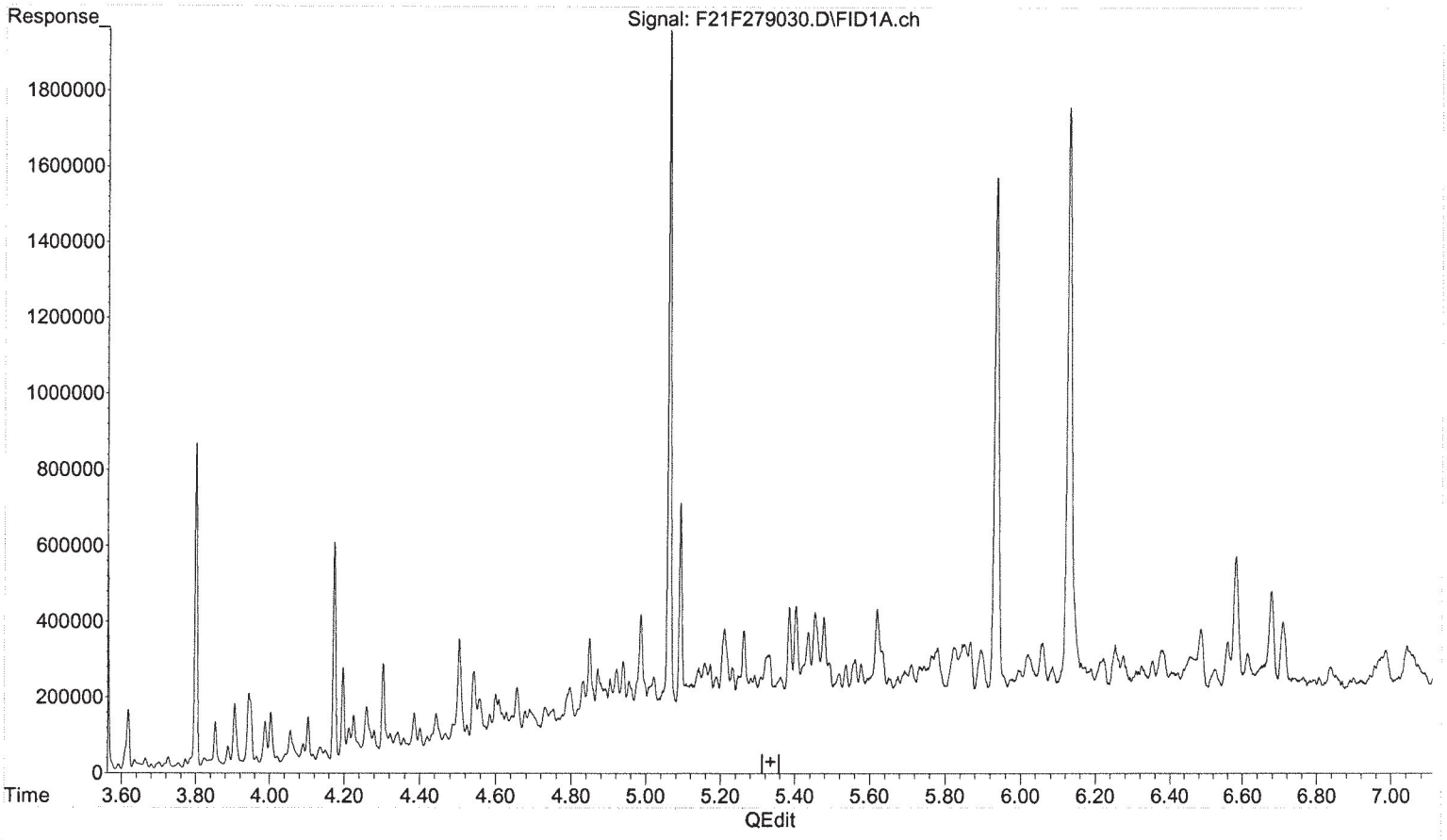


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\F100721\
Data File : F21F279030.D
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 7 Oct 2021 3:13 pm
Operator : CJM
Sample : 21I1751-02@5X Inst : GCFID6
Misc :
ALS Vial : 30 (Sig #1); 29 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: TEST.E
Quant Time: Oct 07 15:59:16 2021
Quant Method : C:\msdchem\1\methods\EPHQ_07.m
Quant Title : EPH-FID6-10/05/2020
QLast Update : Wed Jun 09 13:38:45 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(10) o-Terphenyl (OTP) (S)

5.334min 0.000 ug/mL

response 0

Matrix Interference

CHECKED BY: CHRISTIAN MERCHANT OCT 0 - 202

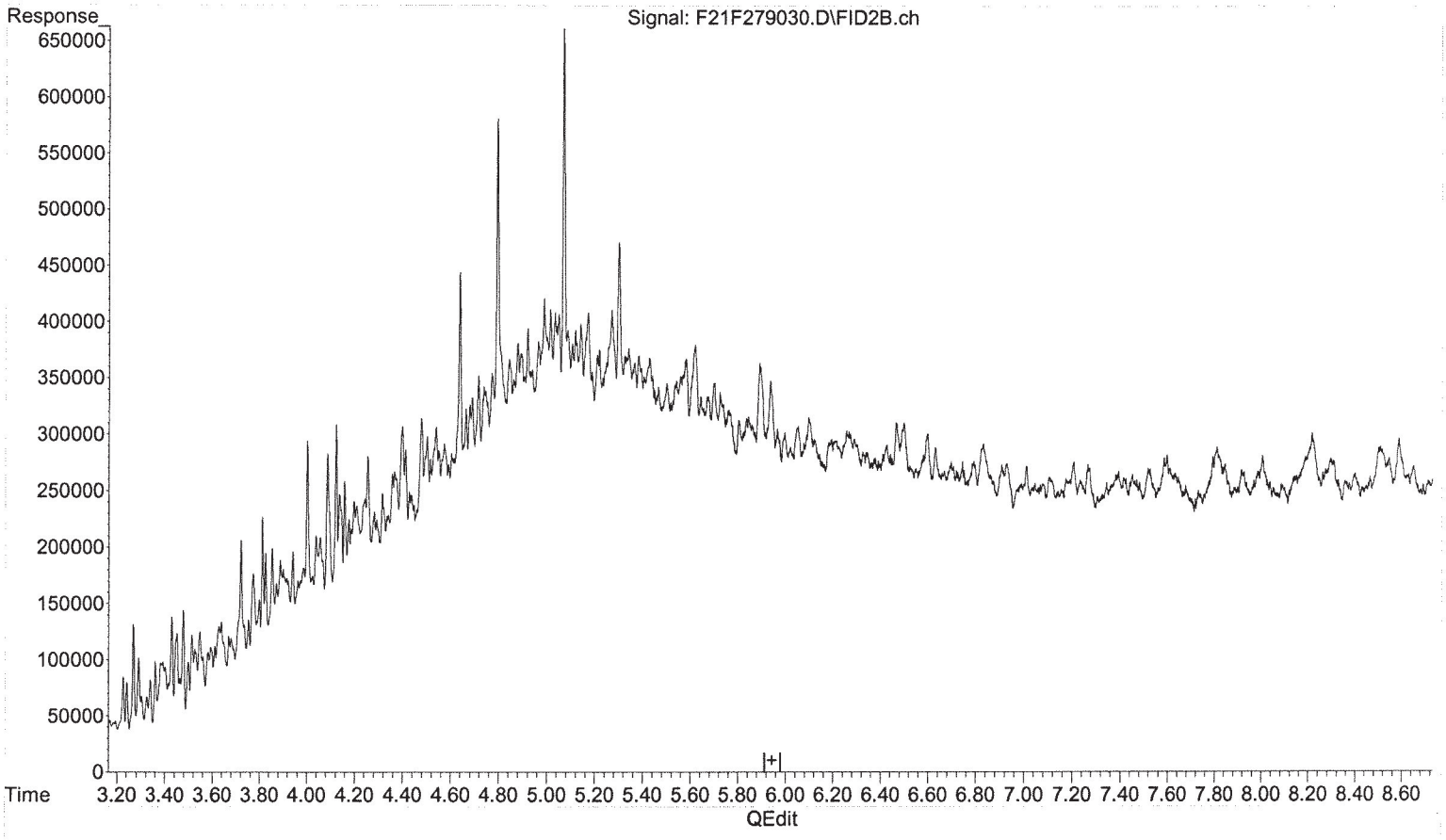
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\F100721\
Data File : F21F279030.D
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 7 Oct 2021 3:13 pm
Operator : CJM
Sample : 21I1751-02@5X Inst : GCFID6
Misc :
ALS Vial : 30 (Sig #1); 29 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: TEST.E
Quant Time: Oct 07 15:59:16 2021
Quant Method : C:\msdchem\1\methods\EPHQ_07.m
Quant Title : EPH-FID6-10/05/2020
QLast Update : Wed Jun 09 13:38:45 2021
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(33) Chlorooctadecane (COD) (S)

0.000min 0.000 ug/mL d

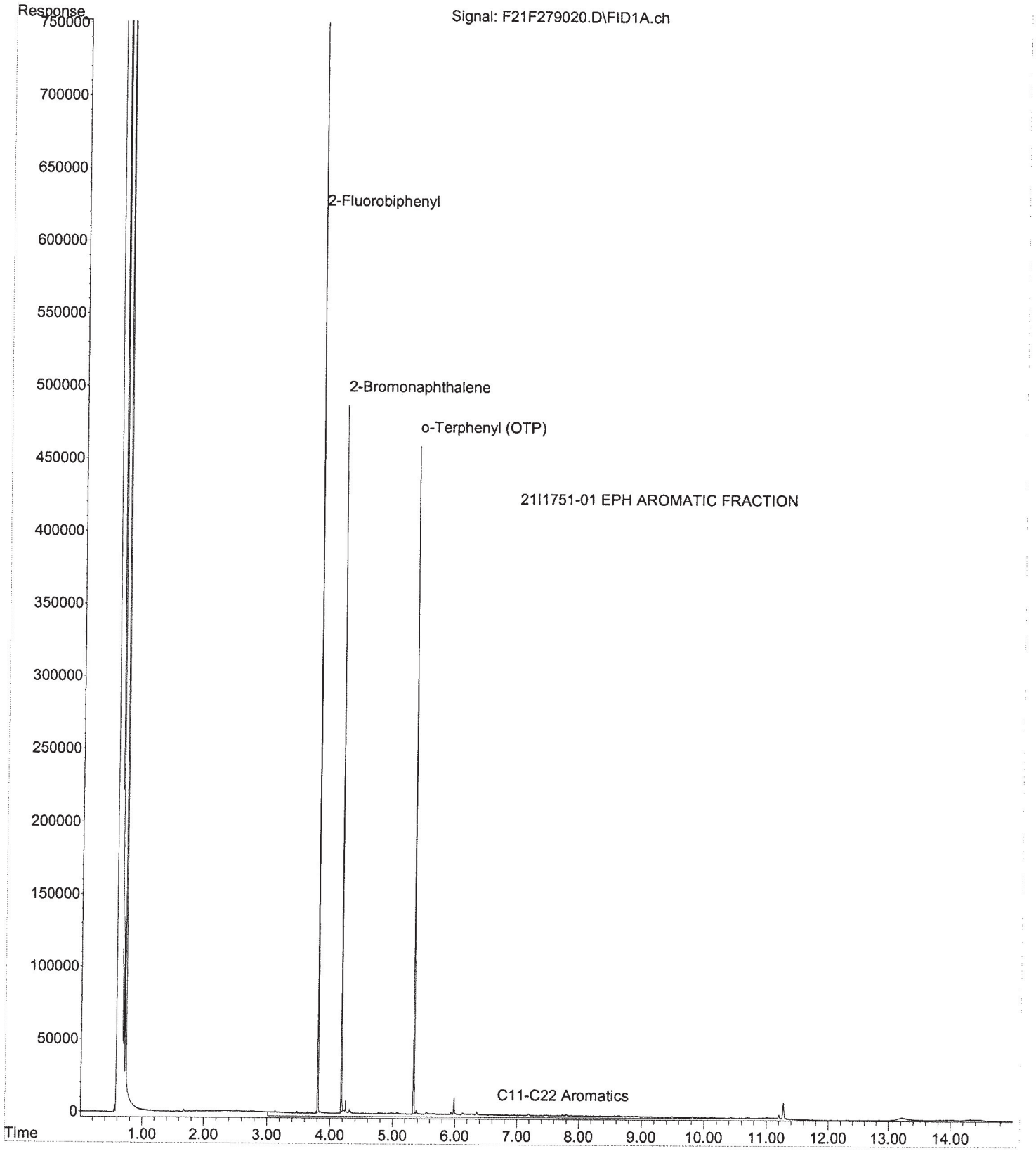
response 0

Matrix Interference

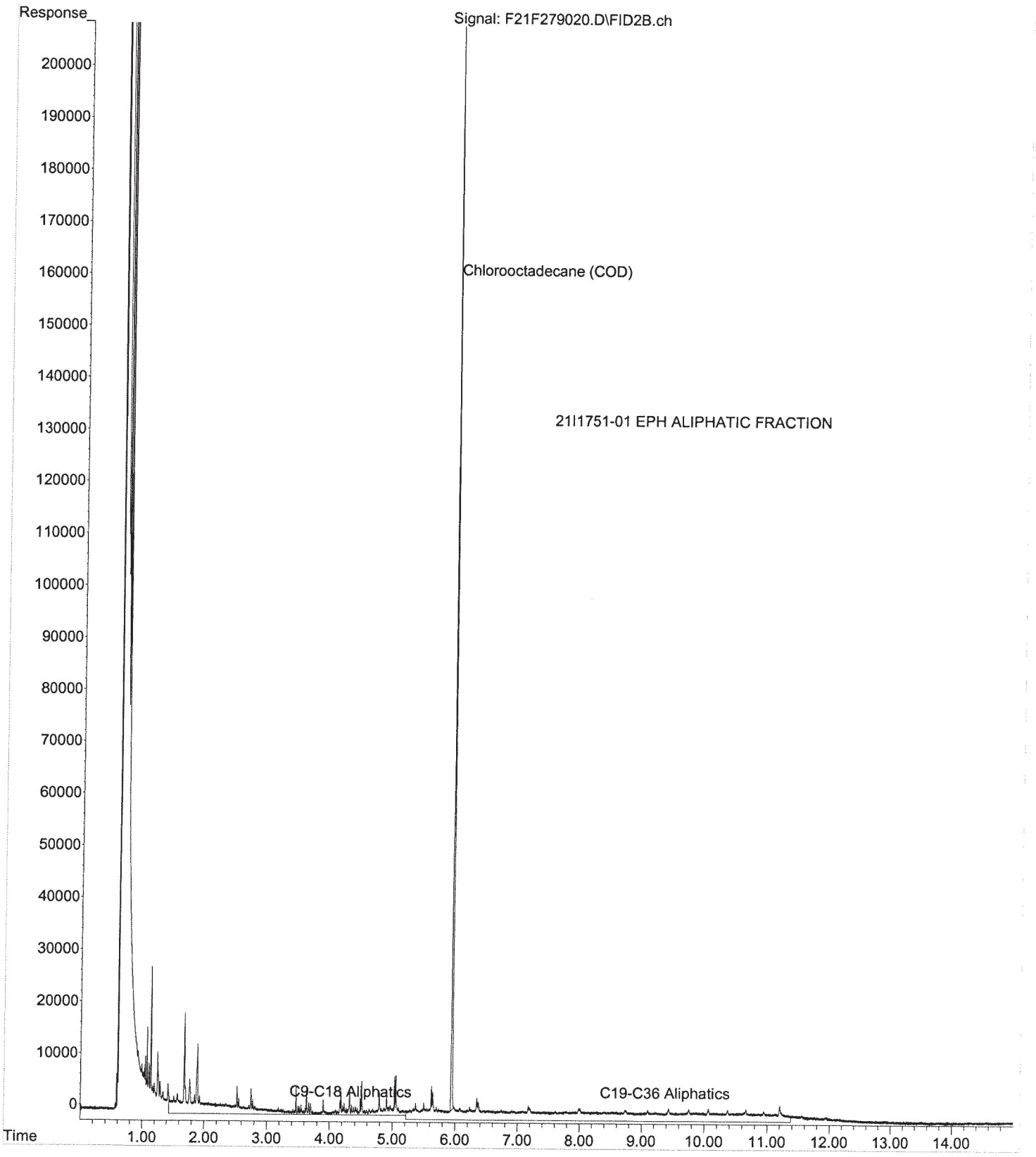
CHECKED BY:
CHRISTIAN MERCHANT OCT 0 - 20

(+) = Expected Retention Time
EPHQ_07.m Thu Oct 07 15:59:59 2021

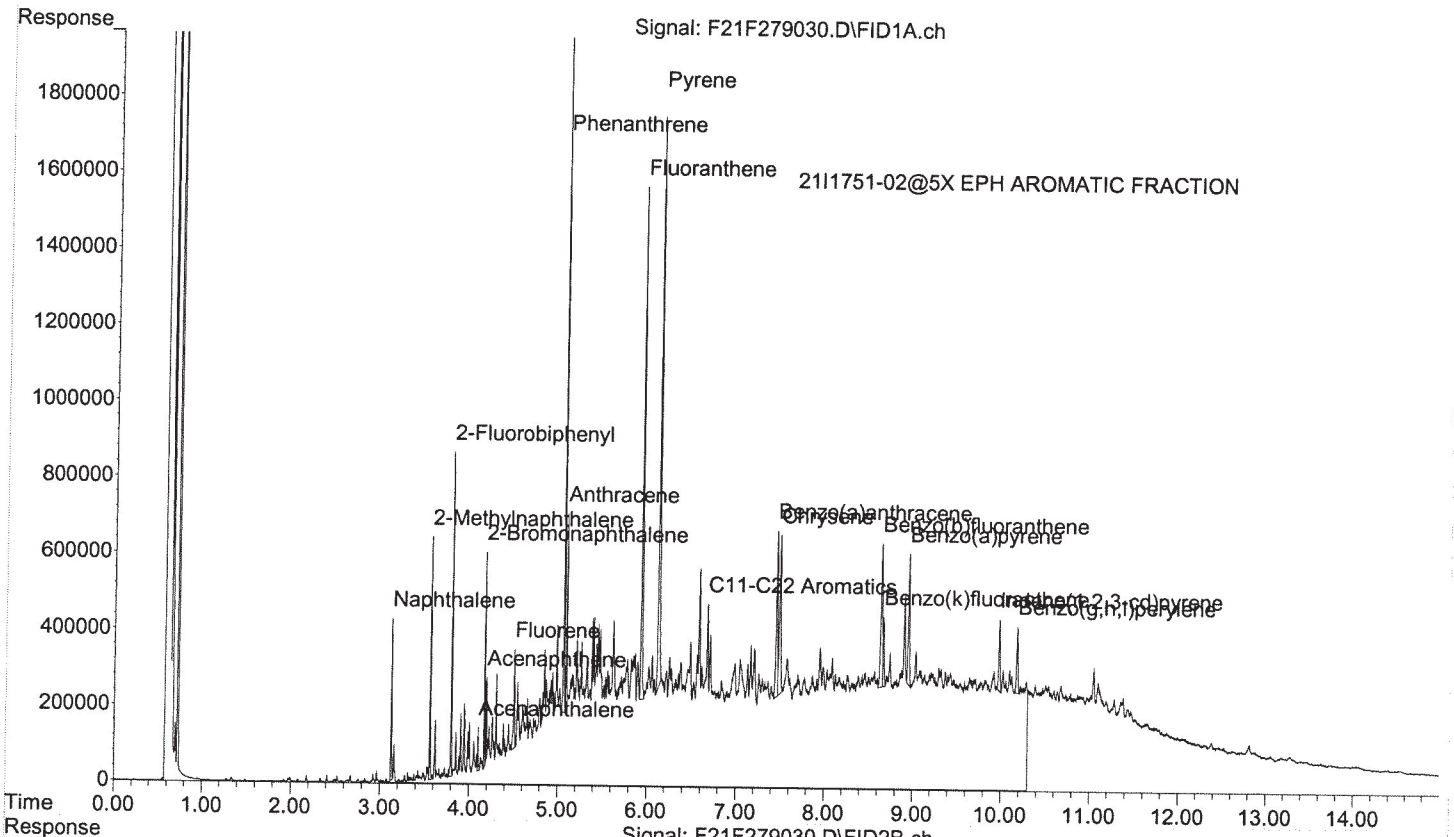
```
File       :C:\msdchem\1\data\F100721\F21F279020.D
Operator   : CJM
Acquired   :  7 Oct 2021    1:37 pm using AcqMethod EPH_01.M
Instrument :   GCFID6
Sample Name: 21I1751-01
Misc Info  :
Vial Number: 20
```

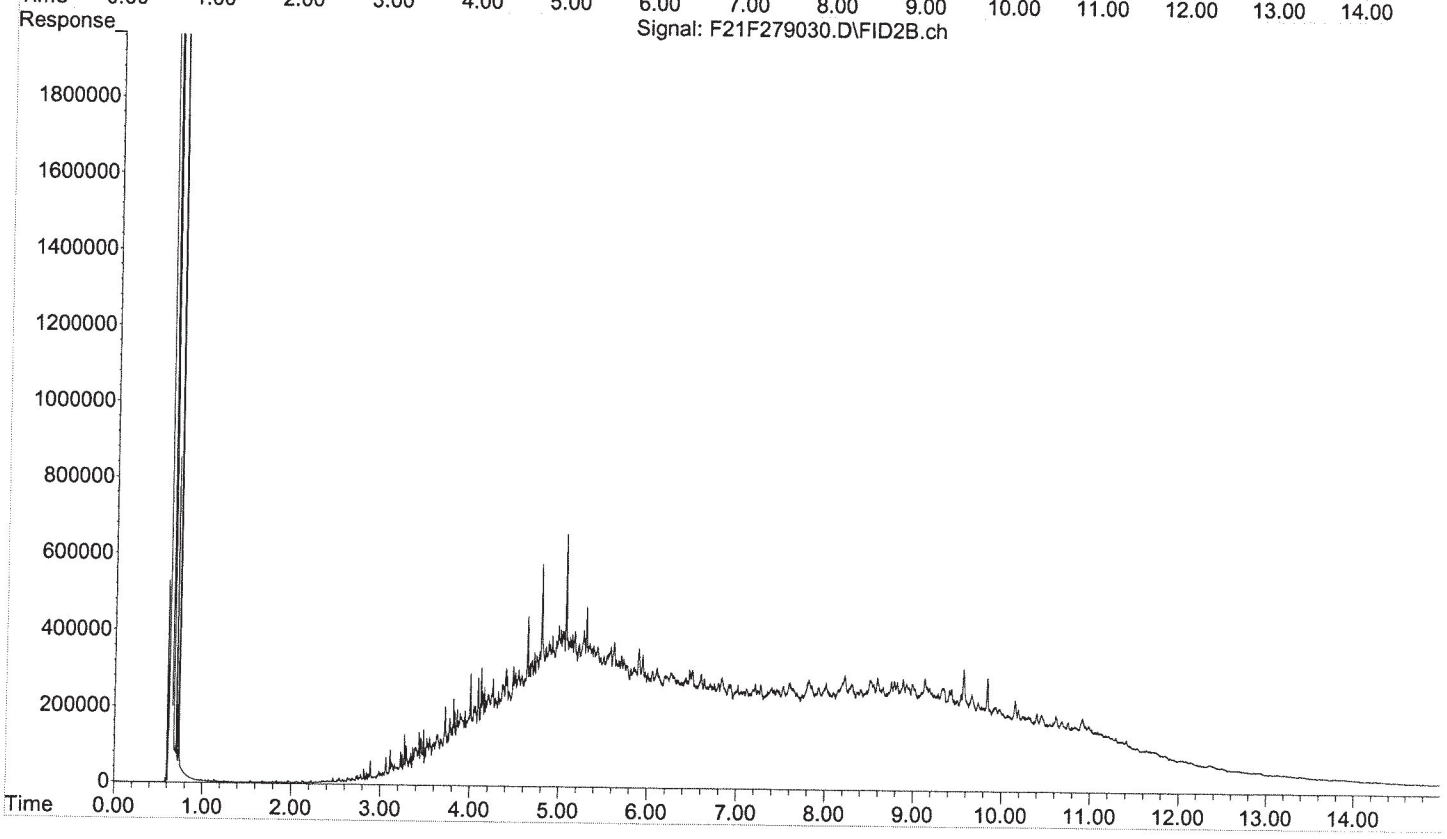


File :C:\msdchem\1\data\F100721\F21F279020.D
Operator : CJM
Acquired : 7 Oct 2021 1:37 pm using AcqMethod EPH_01.M
Instrument : GCFID6
Sample Name: 21I1751-01
Misc Info :
Vial Number: 20

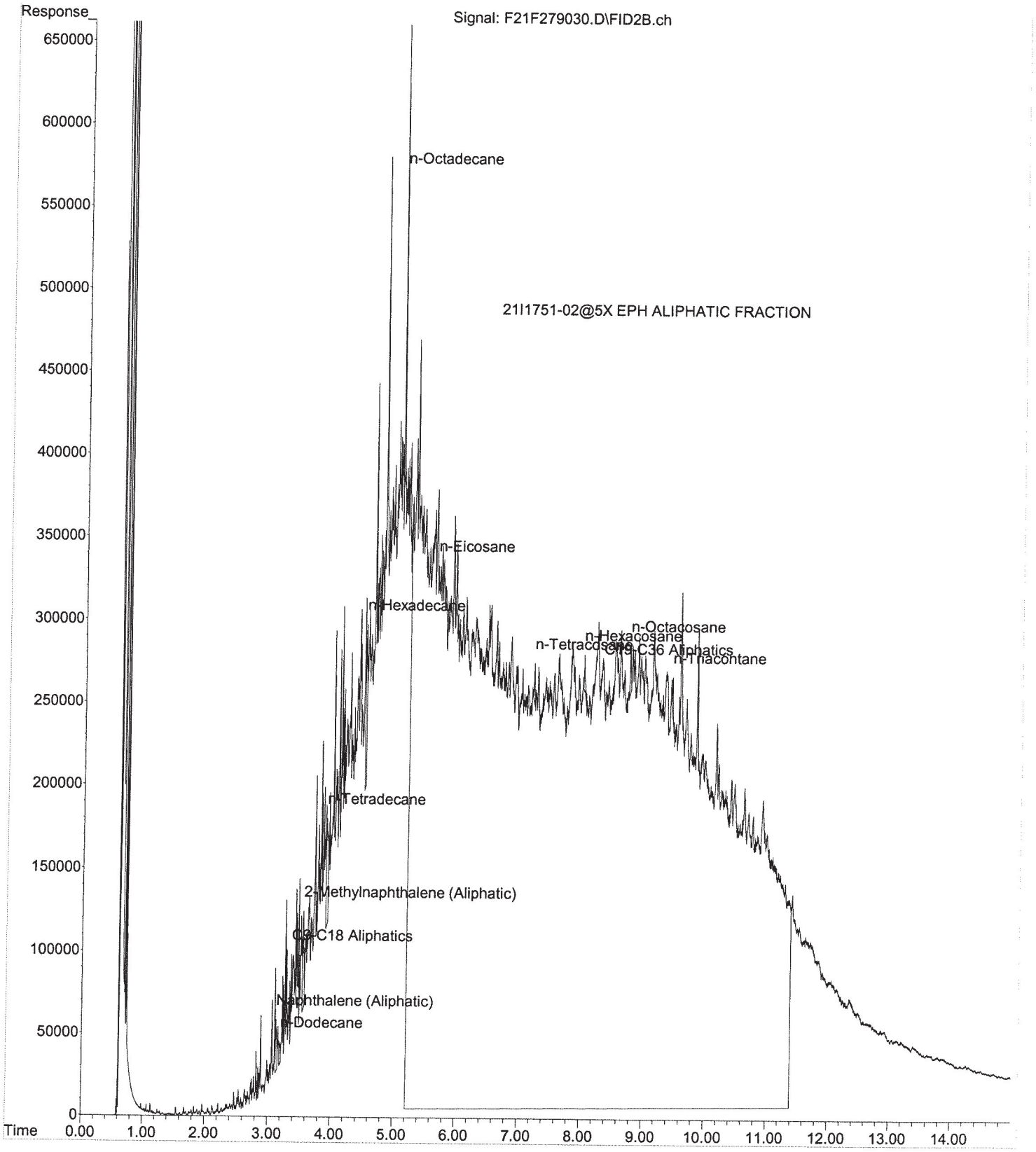


File :C:\msdchem\1\data\F100721\F21F279030.D
Operator : CJM
Acquired : 7 Oct 2021 3:13 pm using AcqMethod EPH_01.M
Instrument : GCFID6
Sample Name: 21I1751-02@5X
Misc Info :
Vial Number: 30





```
File       :C:\msdchem\1\data\F100721\F21F279030.D
Operator   : CJM
Acquired   :  7 Oct 2021    3:13 pm using AcqMethod EPH_01.M
Instrument :   GCFID6
Sample Name: 21I1751-02@5X
Misc Info  :
Vial Number: 30
```



MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test, a Pace Analytical Laboratory	Project #: 21I1751
Project Location: Pittsfield, MA	RTN:

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

21I1751-01 thru 21I1751-02

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A (X)	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 CAM IV C ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	MassDEP EPH CAM IV B (X)	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )

Affirmative response to Questions A throughF is 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[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
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[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E 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).	☑ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is 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]

***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 perfomance 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]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case 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, accurate and complete.

Signature: Lisa Worthington Position: Technical Representative

Printed Name: Lisa A. Worthington Date: 10/08/21