

REPORT OF ANALYTICAL RESULTS

NETLAB Work Order Number: 1101020 Client Project: 023-162 - Leicester

Report Date: 09-September-2021

Prepared for:

Cedwyn Morgan
Hydro Environmental Technologies
54 Nonset Path
Acton, MA 01720

Richard Warila, Laboratory Director New England Testing Laboratory, Inc. 59 Greenhill Street West Warwick, RI 02893 rich.warila@newenglandtesting.com NETLAB Case Number: 1I01020

Samples Submitted:

The samples listed below were submitted to New England Testing Laboratory on 09/01/21. 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 1I01020. Custody records are included in this report.

Lab ID	Sample	Matrix	Date Sampled	Date Received
1I01020-01	Gym	Air	08/31/2021	09/01/2021

NETLAB Case Number: 1I01020

Request for Analysis

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

Gym (Lab Number: 1I01020-01)

<u>Analysis</u> <u>Method</u>

Air-phase Petroleum Hydrocarbons MADEP APH

Method References

Method for the Determination of Air-Phase Petroleum Hydrocarbons, Rev. 1, Massachusetts Department of Environmental Protection, 2009

NETLAB Case Number: 1I01020

Case Narrative

CASE NARRATIVE:

Sample Receipt:

The samples were received in the appropriate containers. The chain of custody was adequately completed and corresponded to the samples submitted.

APH:

All samples were 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 samples were within method specified quality control criteria.

Sample Canister Summary:

Sample ID: Gym Canister ID 0050

Flow Controller ID #6/8 Hours
Flow Controller RPD <20% Yes
Collection Time 8 Hours 4 Minutes
Initial Laboratory Vacuum <-28"Hg
Initial Field Vacuum -26"Hg
Final Field Vacuum -3"Hg
Final Laboratory Vacuum -7.0"Hg

SAMPLE INFORMATION

Sample Type	Grab	Time-Integrated:	2 hour	4 hour	8 hour	24 hour	Other:
Sample Container	Canister(s) s	size: 6L	Other				
Sampling Flow Controller	Mechanical	Fixed-Orifice	Elec	tronic	Other		
Sampling Flow Meter	RPD of pre 8	& post-sampling calib	oration checl	κ(s):	<u><</u> 20%	>20%	

APH ANALYTICAL RESULTS

			Client ID		Gym	
Internal Standards:			Lab ID		1101020-01	
Pentafluorobenzene		Dat	e Collected	09/01/21		
1,4 Difluorobenzene Chlorobenzene-d5		Dat	te Received			
Officioseff2effe-d5		Dat	te Analyzed			
MS Tuning Standard:		Pre-sample vac	cuum (field)		-26 in. Hg	
Bromofluorobenzene		Post-sample vac	cuum (field)		-3 in. Hg	
		Lab Rece	ipt vacuum		-7.0 in. Hg	
		Dilu	tion Factor		1	
Target APH Analytes &		rting Limit			e Results	
Hydrocarbon Ranges	ug/m ³	ppb v/v	ug/i	m ³	ppb v/v	
1,3-Butadiene	2.0	0.9	NI)	ND	
Methyl t-butyl ether (MTBE)	2.0	0.6	NI)	ND	
Benzene	2.0	0.6	NI)	ND	
Toluene	2.0	0.5	3.4		0.9	
Ethylbenzene	2.0	0.5	NI)	ND	
m&p-Xylene	2.0	0.5	3.	5	0.8	
o-Xylene	2.0	0.5	NI)	ND	
Total xylenes	2.0	0.5	3.	5	0.8	
Naphthalene	0.63	0.1	NI)	ND	
C5-C8 Aliphatic Hydrocarbons	12.0	NA	46	0	NA	
C9-C12 Aliphatic Hydrocarbons 1,3	12.0	NA	42	0	NA	
C9-C10 Aromatic Hydrocarbons 10.0		NA	NA NE		NA	

2: C5-C8 aliphatic hydrocarbons exclude the concentration of Target APH Analytes eluting in that range

CERTIFICATION

Were all QA/QC procedures REQUIRED by the APH Method followed? Were all performance/acceptance standards for required QA/QC procedures achieved? Were any significant modifications made to the APH method, as specified in Sect 11.1.2

No - Details Attached No - Details Attached Yes No Yes - Details Attached

I attest under the pains and penalties of perjury 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.

Signature: Book Position: Laboratory Director

Date: 09/09/21 Printed Name: Richard Warila

MADEP-APH-PCD-2008, rev 1

December 2008

^{3:} C9-C12 aliphatic hydrocarbons exclude concentration of Target APH Analytes eluting in that range AND concentration of C9-C10 aromatic hydrocarbons Abbreviations: ND=Not Detected, NA=Not applicable, NP=Not Provided

Quality Control

Air-Phase Petroleum Hydrocarbons (MADEP-APH)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: B1I0139 - MADEP-API	H-Preparation									
Blank (B1I0139-BLK1)					Prepared	& Analyzed: 0	9/03/21			
1,3-Butadiene	ND		0.9	ppb (v/v)						
Methyl t-butyl ether (MTBE)	ND		0.6	ppb (v/v)						
Benzene	ND		0.6	ppb (v/v)						
Toluene	ND		0.5	ppb (v/v)						
Ethylbenzene	ND		0.5	ppb (v/v)						
m&p-Xylene	ND		0.5	ppb (v/v)						
o-Xylene	ND		0.5	ppb (v/v)						
Total xylenes	ND		0.5	ppb (v/v)						
Naphthalene	ND		0.1	ppb (v/v)						
C5-C8 Aliphatic Hydrocarbons	ND		12.0	ppb (v/v)						
C9-C12 Aliphatic Hydrocarbons	ND		12.0	ppb (v/v)						
C9-C10 Aromatic Hydrocarbons	ND		10.0	ppb (v/v)						
LCS (B1I0139-BS1)					Prepared	& Analyzed: 0	9/03/21			
1,3-Butadiene	14.8			ppb (v/v)	13.2		112	70-130		
Methyl t-butyl ether (MTBE)	13.9			ppb (v/v)	13.2		106	70-130		
Benzene	12.9			ppb (v/v)	13.2		97.6	70-130		
Toluene	11.9			ppb (v/v)	13.2		90.4	70-130		
Ethylbenzene	13.9			ppb (v/v)	13.2		105	70-130		
m&p-Xylene	31.0			ppb (v/v)	26.4		117	70-130		
o-Xylene	14.9			ppb (v/v)	13.2		113	70-130		
Naphthalene	15.2			ppb (v/v)	13.2		115	50-150		

Notes and Definitions

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



NEW ENGLAND TESTING LABORATORY, INC.

59 Greenhill Street West Warwick, RI 02893 1-888-863-8522

CHAIN OF CUSTODY RECORD

PROJECT NAMELOCATION	
5 3	REMARKS
u	
· >	start time: 8:02 AM
	start pressure: - 26 in Hg
	end time: 4:06 PM
	end present: - 3 in. Hg
	,
	Cnacial Instructions
Sampled by (Signature) Sampled by (Signature) Signature Peceived by (Signature) Signature S	Special fragulations. Limit Requirements:
	3
Relinquished by, (30) ature) Received for Laboratory by (Signature) Although Mallow Although Mallow	Turnaround (Business Days)
o following to	ТЕТРН

**Netlab subcontracts the following tests: Radiologicals, Radon, Asbestos, UCMAS, Perchlorate, Bromate, Bromide, Sier

MassDEP Analytical Protocol Certification Form								
Laboratory Name: New England Testing Laboratory, Inc. Project #: 023-162								
Proje	Project Location: Leicester, MA RTN:							
	Form pro 101020	ovides certification	ons for the followin	g data set: list Lab	oratory Sample ID N	lumber(s):		
Matrio	ces: 🗆 Gi	oundwater/Surfac	ce Water □ Soil/Sed	diment Drinking	Water ⊠ Air □ Oth	er:		
CAM	Protoco	(check all that a	apply below):					
8260 ' CAM		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		
	SVOC 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 ⊠		
	Metals 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 □		
A	Affirmativ	ve Responses to	Questions A throug	gh F are required t	or "Presumptive Ce	rtainty" status		
A	Custody,	properly preserv			cribed on the Chain-of ld or laboratory, and			
В		e analytical method tocol(s) followed?	d(s) and all associated	d QC requirements s	pecified in the selected	d ⊠ Yes □ No		
С			e actions and analyticated for all identified perfe		specified in the selected n-conformances?	d ⊠ Yes □ No		
D		Assurance and C			specified in CAM VII A ition and Reporting o			
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							
F					conformances identified Questions A through E)?			
Res	sponses	to Questions G,	H and I below are re	equired for "Presu	mptive Certainty" st	atus		
G	G Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)? ✓ Yes □ No¹							
<u>Data User Note</u> : 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.								
Н						✓ Yes □ No ¹		
ı	 Were results reported for the complete analyte list specified in the selected CAM protocol(s)? 							
¹ All 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								
Print	ted Name	Richard Warila		— Date:	9/9/2021			

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