

Electronic Transmittal Form for DEEP Remediation and LUST Secure File Transfer (SFT)

DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
REMEDIATION DIVISION
LEAKING LINDERGROUND STORAGE TANK COORDINATION

LEAKING UNDERGROUND STORAGE TANK COORDINATION PROGRAM

www.ct.gov/deep

This Electronic Transmittal Form is to be used when submitting a document to the Connecticut SFT website. This form must be completed and included as the cover sheet of your electronic document.

Requirements for Transmittals through the SFT website:

- Only document types identified in the dropdown lists in Part III below may be submitted through the SFT website.
- Documents submitted through the SFT website must include all applicable figures, tables and laboratory data.
- Files must be formatted as PDF/A and use the appropriate naming convention:
 - For Remediation Filings: REM_RemID_DocumentType_DateofDocument Example: REM 1234 MonitoringReport 01-01-2001
 - For LUST Filings: LUST_SiteAddress_Town_AbbreviationForDocumentType_DateofDocument

Example: LUST_1MainStreet_Hartford_ESA_01-01-2001

Note: For AbbreviationForDocumentType" use appropriate abbreviation at Transmittal of Documents

Part I: Program Type (Select either Remediation or LUST as your Primary Program Type)

⋉ Remediation	☐ LUSI				
Primary Program: Significant Environmental	UST Facility ID: (if applicable)				
Hazard Program	Spill Case Number: (if known)				
*Rem ID: (required)					
Part II: Site Information					
Site Name: Mystic Oral School					
Site Address: 0 Oral School Road					
City/Town: Mystic Sta	te: CT Zip Code: 06355				
Secondary Programs (complete as many as applicable	for this document):				
Program: Select Secondary Program Project ID:					
Program: Select Secondary Program	Project ID:				
Program: Select Secondary Program	Project ID:				
Program: Coloot Cocondon, Program	Project ID:				
Program: Select Secondary Program	Project ID:				

Part III: Document Information

Remediation: SEH Notification LUST: LUST Document Type

Date of Document: 6/24/2020 Final

Part IV: Submitter Information

Name: John A. Bondos Jr. E-mail: jabondos@loureiro.com

Name of company/business this document is being submitted on behalf of: State of Connecticut Department

of Administrative Services



City/Town

Mystic

3. Date Hazard condition(s) discovered: 4/7/2020

2. Attach a copy of a topographic map with the site located thereon.

Connecticut Department of Energy & Environmental Protection Bureau of Water Protection & Land Reuse Remediation Division

Significant Environmental Hazard Notification

State CT

Zip Code 06355

MAP ATTACHED

4. If due to a rec	ent spill,	was spill n	otification	n made?	`	YES NO		NOT A SPILL
Date		DEEP co	ntact					
Remarks								
5. If due to a US	T systom	rologeo y	was DEEI	P notified?	VEC 🗆	NO∏ / N	OT 4	UST RELEASE 🗵
Date	i system	DEEP co		Hotineu:	TES	NO / N	OTA	UST HELEASE [
Remarks								
6. For certain co					(b) 0 (f)/	O)/A)10 N	1/A 🔽	YES NO
Was oral notifice (Drinking water s			-	, , .	. ,	/ \ / _		
Date		P contact			, ,		,	,
Remarks:			1					
Was verificatio	n to TEP	client mad	le [CGS 2	22a-2u(b) 8	k (h)]?	N	J/A 🔀	YES NO
(Drinking water	supply well	above crite	eria, explo	sion hazard	l)			
Date	Con	tact						
Remarks:								
Part II - Party I	dentificat	ion and C	Contact li	nformatio	า			
*					_		0	🔽 🗆
1. Business/per						site's own	er?	YES NO
Name				tment of Ad	ministrativ	e Services		
Mailing Address	450 C	olumbus Bo	oulevard					
City/Town	Hartfo	rd		State	СТ	Zip Co	ode	06103
Business Phone				Ext.		Fax		
Authorized Rep.				Title				
Contact Person				Title				
Contact e-mail^				•	•			
2. Owner if not I	sted abov	/e:						
Name								
Mailing Address								
City/Town				State		Zip Co	ode	
Business Phone				Ext.		Fax		
Contact Person				Title		•		
Contact e-mail^				•	-			

3. Additional Party	for site (see instruction	ons)			NO	T APPLICABLE 🗵
Name/Firm						
Mailing Address						
City/Town		State		Zip Co	ode	
Business Phone		Ext.		Fax		
Contact Person		Title				
Contact e-mail^		•				
4. Technical Envir	onmental Professiona	I (TEP) who ide	ntified hazard	d:	С	HECK IF NONE
Firm	Loureiro Engineering	Associates, Inc.				
Mailing Address	100 Northwest Drive					
City/Town	Plainville	State	СТ	Zip Co	ode	06062
Business Phone	860-747-6181	Ext.		Fax		
Contact Person	John Bondos	Title	Senior Proje	ct Mana	ger	
Contact e-mail^	jabondos@loureiro.co	m				
5. Environmental	consultant for mitigation	on or abatement	, if not above	TEP:		
Firm						
Mailing Address						
City/Town		State		Zip Co	ode	
Business Phone		Ext.		Fax		
Contact Person		Title				
Contact e-mail^						
relationship to the mitigate or abate to Loureiro was retaine	nformation. If the person site and its owner. If an en- he hazard condition provide d by the State of Connection	tity who is not the s e details of this agre	ite owner will be eement and ider	e acting on tify which	on beh ch part	alf of the owner to y will be acting.
Economic and Comr	nunity Development.					

Part III - Hazard Information

See Attached Sheet

The law [CGS 22a-6u(j)] requires the significant environmental hazard notification include a description of the nature of the contamination or condition, the location of such contamination or condition, and any

	ontamination or conditionable abate, remediate or mo				ondition	, and	d an	У
1. How was the poll	utant released?							
unknown	☐ landfill/wastep	ile 🗌 septic	system	Tank leak: L	JST 🗌 A	AST		\Box
spill/dumping	☐ burial	☐ dry w	ell	drums				\neg
agricultural activity	/ D pit	☐ lagoo	n	discharge				\neg
2. *What is the gene	eral nature of the con	tamination?	•					
petroleum/oils	non-aqueous pha		oduct)	☐ metals	S	odiu	m/sa	ılt
gasoline	volatile organic	semivolati	le organic	☐ cyanide		each	ate	一
☐ fuel oil/diesel	nonchlorinated	☐ polyarom	atic	acid/base	□ а	asbestos		
nitrate/fertilizer	Chlorinated	, ,	/herbicide	☐ PCB	☐ ra	adiat	ion	一
to a drinking water a. SUPPLY WE For threats to contamina *supply wells po contamina *supply required groundwat [CGS 22a-	[CGS 22a-6u(b) norer supply well is identification above groundware well test results that billuted with non-aquetion in a supply well well test results that did 30-day retest resulter contamination in a	le detail on the ater protection identify the hateous phase liqued below grounds identify the hate a monitoring was a monitoring was a significant to the significant at the significant identify the hate a monitoring was a monit	e following criteria ir azard (sul uid (free p water pro- azard	g, if applicable: n a supply well [comit within 7 da coroduct) tection criteria [groundwater p	ys of d CGS 2: rotection	2a-(isco 2a-(∂u(b ver <u>y</u> ∂u(c)]: y.)
Identify affect	ted <i>and/or</i> sampled <u>o</u>	drinking water	supply w	<i>ells</i> . (CHECK II	F NC	NE	
						Sa	amp	le
Address/Town	Contact Name	e/Phone		Well Analyses (i ollutant, Concentr its]	• •	Discovery	Resample	Abutter test
155 Oral School Road Mystic, CT	d, James and Na	ancy Csisar		(2.3 ng/L), PFO PFOS (3.8 ng/L)	A (5.5			\boxtimes
195 Oral School Road Mystic, CT	d, Christopher K	luck	PFOA	(2.1 ng/L)				\boxtimes
366 Cow Hill Road, Mystic, CT	Lloyd and Kell	ly Morales	PFOA	(2.3 ng/L)				\boxtimes

b. **MONITORING WELL DATA:**

*For a groundwater plume that poses a threat to drinking water wells [CGS 22a-6u(g)], list *monitoring well* analytical data for substances with concentrations at or above the Groundwater Protection Criteria of the RSRs.

CHECK IF NONE

		ndwater Protection Cri		s. CHECK IF NONE			
Monit Wel		Pollutant	Concentration (units)	Notes			
				Attach additional sheets as needed.			
C.		groundwater plume [Corting the hazard ident		are hydrogeologic data/maps d? YES NO N			
d.	Include Well Receptor Survey [CGS 22a-6u(g)(3)] (also include for [CGS 22a-6u-(b)] if available at time of notification):						
		ach a site map/ parcel (s) within 500 feet.	map indicating t	ne location of the drinking water supply MAP ATTACHED			
	ii. Atta	ach an inventory of drir	nking water wells	within 500 feet. INVENTORY ATTACHED			
e.		ribe any actions alread y of safe water to affec		o inform well users and ensure an alternate CHECK IF NONE			
			·				
				Attach additional sheets as needed.			
f.				i)] that, based on any additional testing			

f. Attach a report [CGS 22a-6u(c)(3) and (g)(3)] that, based on any additional testing results that includes proposals, as necessary, for any further action to identify and eliminate exposure to contaminants on an ongoing basis.

PLAN ATTACHED

		cial soil direct exposition to question 5.	ure risk [CGS 2	22a-6u(d)]: CHECK IF NONE ⊠
a.				etermining that a hazard condition exists. or each pollutant above hazard criteria.)
	Sample ation ID	Pollutant	Concentration (units)	Notes
<u> </u>				
		-		
		 		
				Attach additional sheets as needed.
b.	Delinea	ation of hazard extent:	•	
	the		nat exceeds sign	location and extent [CGS 22a-6u(d)(3)] of nificant environmental hazard notification ations.
				sampling data used to determine the extent of tria [CGS 22a-6u(d)(3)]. TABLE ATTACHED \square
	iii. 🗌	Extent not yet fully de	elineated	
C.		nce from release area playground, or day car		erty currently used as a residence, school, feet
d.	Area t	hat exceeds SEH noti	ification thresho	lds is:
	i. Cov	vered by maintained p	oavement N/A	YES NO
	ii. Fer	nced off from general	public N/A	YES NO
	iii. 🗌			pecause the above conditions previously a-6u(d)(1)(C)], thus notification is required.
e.	Identif	y notification evaluation	on criterion used	d ["DEC" means Direct Exposure Criteria]:
		30x Industrial/Comme	rcial DEC (for in	ndustrial commercial use, i.e. non-residential)
				netals or PCBs at industrial or commercial feet of a current residential use)
		15x Residential DEC ((for current resic	dential use)
f.		ibe interim control acti ding the SEH notificat	•	event exposure to the contaminated soil CHECK IF NONE

g.	plan, with controls (i	an implementation sche	dule, for mainten nces) and submi	ance and monitoring of interim tall of annual reports until the REPORT ATTACHED					
h.	<u>Voluntary</u>	notification for DEEP ap	proval of abatem	ent report (optional).					
	provis withir	sions of CGS 22a-6u(e)(2)(A), (B), or (C) notification is be	n is exempt from notification under the because abatement was completed ing voluntarily submitted for approval zard abatement.					
	Date of co	empletion of abatement		_					
	Abatemer	nt achieved by:							
	removal of soil above notification threshold								
	ren	dering the soil inaccessi	ble as defined in	the RSRs					
	ren	nediation of the release i	n accordance wi	th the RSRs					
	Describe a	actions taken to remove	hazard condition	REPORT ATTACHED					
		tion risk [CGS 22a-6u(e <i>o question 6.</i>	e)]:	CHECK IF NONE ⊠					
		•	asis for determini	ng that a hazard condition exists.					
	(Please lis		ntration for each	pollutant causing a hazard condition.)					
	oring Well/ Vapor ID	Pollutant	Concentration (units)	Notes					
				Attach additional sheets as needed.					
b.	Site Map:								
	condition			eation of samples identifying a hazard 50 feet of the hazard condition with SITE MAP ATTACHED					
	be avai			data or additional sampling that may nazard condition. Attach data tables DATA ATTACHED					

	C.	Ident	ity any reason tor dela	y (pursuant to th	ie law) in submittal of this	notification:			
		no re	otification is due to a s	ubsequently ide	nplemented [CGS 22a-6u ntified significant environn due to a failure to comple	nental hazard as a			
			previously vacant buil azard is still present.	ding was reoccu	pied and the significant e	nvironmental			
					ironmental hazard was ide ial use that has now been				
	d.	(Note	Describe any interim measures already implemented. Note: If trichloroethylene was detected DEEP recommends consulting the 2015 Guidance on Trichloroethylene Developmental Risks in evaluating the site.)						
					Attach addi	tional sheets as needed.			
	e.	e. Attach a plan [CGS 22a-6u(e)(4)] that describes further actions that may be necessary to fully delineate potential at-risk receptors and to identify and eliminate any exposure to contaminants. PLAN ATTACHED							
_	_								
6.			ats to surface water [skip to next part.	CGS 22a-6u(f)]:		CHECK IF NONE			
	a.	*Is th	is notification for the p	resence of non a	aqueous phase liquid?	YES NO			
	b.	*List	analytical data establis	shing that the co	ndition exists.	CHECK IF NO DATA			
٨		oring	Pollutant	Concentration (units)	Notes				
				-	Attach addi	tional sheets as needed.			
	C.	availa			pecific monitoring location tionship and distance to th MAP				
	d.		a site specific dilution of attach the calculation			YES NO ATTACHED			
	e.	fully o			ibes further actions that m d to identify and eliminate				

Part IV - Additional Information (optional, except #7 which is required by the law)

1. Volunt	tary R	<u> Remedia</u>	tion/ECA	on/ECAF/Property Transfer filings:					С	CHECK IF NONE 🔀
Form	Date	;	Certifying	g/Verify	ing/Filing Pa	arty			DEEP	P Determination
2. DEEP	staff i	involved	with ass	essme	ent or reme	diatio	n of the site	 ::	C	CHECK IF NONE
Time Period DEEP Section Name										
3. Repor	ts to I			y Resp	onse and	Spill F	Prevention [Division	: С	CHECK IF NONE
Date UST Release or other spill?		rial Release	d			Quar	ntity			
4. Descr	ibe ot	her rele	vant DEE	P perr	mitting or e	nforc	ement invol	vement	: C	CHECK IF NONE
EPA ID#	: CT	Γ		DEI	EP-WPC #:			DEEP In	ventor	y #:
RCRA Notifier Status: RCRA Permit S				A Permit Sta	tus:					
Remarks	:									
5. What	enviro	onmenta	ıl reports	exist f	or the site	and a	re available	to DEE	P? c	CHECK IF NONE
Report Type		Date (mo/yr)	Prepar	Preparer (Firm)			Attached? (Y/N)	Previo submit		DEEP Unit to which sent
Phase 1	6	6/2013	Lourei	ro Engi	neering		N	N		
Phase 2	6	6/2013	Lourei	ro Engi	neering		N	N		
Phase 3		5/2014	Lourei	ro Engi	neering		N	N		

Do not list routine monitoring reports in this section.

6. Recu	urring periodic monitorir	ng:					
	. Is this notification the result of data obtained through a periodic, recurring groundwater monitoring program being conducted at the site? YES ☐ NO ☒						
	f yes, please identify the are made, if any.	e reason for this monitoring and	the DEEP unit to which reports				
i.	. Reason:						
ii	i. DEEP Unit:						
h b	nazard notification of his	bular summary for the location to toric monitoring data from the partions that DEEP may prescribe	ast three years is provided to				
*7. Iden	ntify any <i>other</i> affected p	properties:	CHECK IF NONE AFFECTED				
Addres	ss/Town	Contact Name/Phone	How is Property Affected?				
155 Or	al School Road	James and Nancy Csisar	Well Supply				
195 Or	al School Road	Christopher Kluck	Well Supply				
366 Cc	ow Hill Road	Lloyd and Kelly Morales	Well Supply				
			Attach additional sheets as needed.				
			identify any sensitive land uses er supply wells, wetlands, etc.):				
9. Addi	itional comments regard	ling the hazard condition(s):					

Part V – Reports, Plans, and Implementation Schedule for Proposed Actions

The law [CGS 22a-6u(j)] requires the significant environmental hazard notification include a description of any steps being taken to mitigate abate, remediate or monitor the contamination or condition. In addition the law provides for submittal (contemporaneously with the notification except for supply wells polluted above criteria) of a report of initial actions taken, as specified by law, and a plan of recommended actions. Completion of this form, accompanied by attachments as necessary for specific hazard conditions, can meet this requirement

CHECK IF PLAN OR REPORT ATTACHED

Provide an implementation schedule for additional evaluation, mitigation or abatement actions:

Action or Step	Completion Date
Samples were originally collected on March 30, 2020 and resampled on May 27, 2020 with results pending.	Ongoing

Attach additional sheets as needed.

Describe the implementation frequency for proposed monitoring and maintenance activity:

Monitoring/Maintenance program	Frequency

Attach additional sheets as needed.

Part VI – Signature of Notifying Party

"I have personally examined and am familiar with the information submitted in this document and all attachments, and certify that based on reasonable investigation the submitted information is true and accurate to the best of my knowledge and belief. I certify that this form is complete and accurate as prescribed by the Commissioner without alteration of the text."

Name (print or type)	Shane P. Mallory		Administrator, Statewide Leasing & Property Transfer, CT DAS
Signature	Shane P. Mallory	Date 6/24/202	0

Email: Shane.Mallory@ct.gov

DEEP-REM-SEH-FRM-500 11 of 11 Rev. 6/30/15

^{*} Signifies information required by CGS Section 22a-6u.

[^]By providing this e-mail address you are agreeing to receive, when permissible under law, official correspondence from the DEEP, at this electronic address, concerning the subject significant hazard. Please remember to check your security settings to be sure you can receive e-mails from "ct.gov" addresses. Please notify DEEP if your e-mail address changes.



Additional Supply Well Data

				e n:	
Address/Town	Contact Name/Phone	Supply Well Analyses (if any) [List Pollutant, Concentration, and Units]	Discovery	Resample	Abutter test
155 Oral School Road, Mystic, CT	James and Nancy Csisar	PFHxA (2.3 ng/L), PFOA (5.5 ng/L), PFOS (3.8 ng/L), Nitrate as N (2.1 mg/L), Nitrite as N (ND mg/L), BOD (ND mg/L)			×
195 Oral School Road, Mystic, CT	Christopher Kluck	PFOA (2.1 ng/L), Nitrate as N (1.0 mg/L), Nitrite as N (ND mg/L), BOD (ND mg/L)			\boxtimes
366 Cow Hill Road, Mystic, CT	Lloyd and Kelly Morales	PFOA (2.3 ng/L), Nitrate as N (3.4 mg/L), Nitrite as N (ND mg/L), BOD (ND mg/L)			\boxtimes
340 Cow Hill Road, Mystic, CT	Mark and Paula Waller	PFAS by 537.1 (ND ng/L), Nitrate as N (2.1 mg/L), Nitrite as N (ND mg/L), BOD (ND mg/L)			\boxtimes
390 Cow Hill Road, Mystic, CT	Jeffrey Respler	PFAS by 537.1 (ND ng/L), Nitrate as N (0.16 mg/L), Nitrite as N (ND mg/L), BOD (ND mg/L)			\boxtimes
221 Oral School Road, Mystic, CT	Margaret Trakas	PFAS by 537.1 (ND ng/L), Nitrate as N (0.20 mg/L), Nitrite as N (ND mg/L), BOD (ND mg/L)			\boxtimes
382 Oral School Road, Mystic, CT	Robert F. Manley Jr.	PFAS by 537.1 (ND ng/L), Nitrate as N (0.31 mg/L), Nitrite as N (ND mg/L), BOD (ND mg/L)			\boxtimes
402 Oral School Road, Mystic, CT	Randy Chester	PFAS by 537.1 (ND ng/L), Nitrate as N (0.38 mg/L), Nitrite as N (ND mg/L), BOD (ND mg/L)			\boxtimes





April 7, 2020

John Bondos Loureiro Engineering Associates 100 Northwest Drive Plainville, CT 06062

Project Location: Oral School Rd, Groton, CT

Client Job Number:

Project Number: 18HG001.001

Laboratory Work Order Number: 20C1375

Enclosed are results of analyses for samples received by the laboratory on March 31, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano Project Manager

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B255419	10
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B255389	11
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Loureiro Engineering Associates

100 Northwest Drive

REPORT DATE: 4/7/2020

Plainville, CT 06062 ATTN: John Bondos

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 18HG001.001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20C1375

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

PROJECT LOCATION: Oral School Rd, Groton, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1401670	20C1375-01	Drinking Water		EPA 300.0	
				EPA 537.1	
1401675	20C1375-02	Drinking Water		EPA 537.1	
1401670	20C1375-03	Drinking Water		SM 21-22 5210B	



CASE NARRATIVE SUMMARY

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

 $The \ results \ of \ analyses \ reported \ only \ relate \ to \ samples \ submitted \ to \ the \ Con-Test \ Analytical \ Laboratory \ for \ testing.$

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



Project Location: Oral School Rd, Groton, CT Sample Description: Work Order: 20C1375

Date Received: 3/31/2020 Field Sample #: 1401670

Sampled: 3/30/2020 09:15

92.3

Sample ID: 20C1375-01
Sample Matrix: Drinking Wate

d5-NEtFOSAA

		Semivo	latile Organi	c Compoun	ds by - LC/	MS-MS				
		I	MCL/SMCL					Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:08	BLM
Perfluorohexanoic acid (PFHxA)	2.3	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:08	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:08	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:08	BLM
Perfluorooctanoic acid (PFOA)	5.5	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:08	BLM
Perfluorooctanesulfonic acid (PFOS)	3.8	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:08	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:08	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:08	BLM
N-EtFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:08	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:08	BLM
N-MeFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:08	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:08	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:08	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:08	BLM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:08	BLM
11Cl-PF3OUdS (F53B Major)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:08	BLM
9Cl-PF3ONS (F53B Minor)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:08	BLM
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:08	BLM
Surrogates		% Recovery	Recovery	Limits		Flag/Qual				
13C-PFHxA		86.7	70-1						4/3/20 13:08	
M3HFPO-DA		84.8	70-1						4/3/20 13:08	
13C-PFDA		81.7	70-1	30					4/3/20 13:08	

70-130

4/3/20 13:08



Project Location: Oral School Rd, Groton, CT Sample Description: Work Order: 20C1375

Date Received: 3/31/2020 Field Sample #: 1401670

Sampled: 3/30/2020 09:15

Sample ID: 20C1375-01
Sample Matrix: Drinking Water

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

			MCL/SMCL					Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Nitrate as N	2.1	0.10	10	mg/L	1		EPA 300.0	3/31/20	3/31/20 15:40	IS
Nitrite as N	ND	0.100	1	mg/L	1		EPA 300.0	3/31/20	3/31/20 15:40	IS



Project Location: Oral School Rd, Groton, CT Sample Description: Work Order: 20C1375

Date Received: 3/31/2020 Field Sample #: 1401675

Sampled: 3/30/2020 09:15

Sample ID: 20C1375-02
Sample Matrix: Drinking Wate

		Semivol	latile Organi	c Compoun	ds by - LC/	MS-MS				
Analyte	Results		MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 19:33	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 19:33	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 19:33	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 19:33	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 19:33	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 19:33	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 19:33	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 19:33	BLM
N-EtFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 19:33	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 19:33	BLM
N-MeFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 19:33	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 19:33	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 19:33	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 19:33	BLM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 19:33	BLM
11Cl-PF3OUdS (F53B Major)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 19:33	BLM
9Cl-PF3ONS (F53B Minor)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 19:33	BLM
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 19:33	BLM
Surrogates		% Recovery	Recovery	Limits		Flag/Qual				
13C-PFHxA		95.1	70-1						4/2/20 19:33	
M3HFPO-DA		89.8	70-1						4/2/20 19:33	
13C-PFDA		91.5	70-1						4/2/20 19:33	
d5-NEtFOSAA		103	70-1	30					4/2/20 19:33	



Project Location: Oral School Rd, Groton, CT Sample Description: Work Order: 20C1375

Date Received: 3/31/2020 Field Sample #: 1401670

Sampled: 3/30/2020 09:15

Sample ID: 20C1375-03
Sample Matrix: Drinking Water

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

							Date	Date/Time	
Analyte	Results	RL	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Biochemical Oxygen Demand	ND	4.0	mg/L	1		SM 21-22 5210B	3/31/20	3/31/20 18:55	EC



Sample Extraction Data

Prep Method: EPA 300.0-EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20C1375-01 [1401670]	B255389	10.0	10.0	03/31/20

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20C1375-01 [1401670]	B255419	250	1.00	04/01/20
20C1375-02 [1401675]	B255419	250	1.00	04/01/20

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
20C1375-03 [1401670]	B255413	150	03/31/20



QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B255419 - EPA 537.1										
Blank (B255419-BLK1)				Prepared: 04	1/01/20 Anal	yzed: 04/02/2	20			
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
erfluorononanoic acid (PFNA)	ND	2.0	ng/L							
erfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
N-EtFOSAA	ND	2.0	ng/L							
erfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
I-MeFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
'erfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Hexafluoropropylene oxide dimer acid HFPO-DA)	ND	2.0	ng/L							
1Cl-PF3OUdS (F53B Major)	ND	2.0	ng/L							
Cl-PF3ONS (F53B Minor)	ND	2.0	ng/L							
,8-dioxa-3H-perfluorononanoic acid ADONA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	37.9		ng/L	40.0		94.8	70-130			
Surrogate: M3HFPO-DA	35.8		ng/L	40.0		89.4	70-130			
Surrogate: 13C-PFDA	37.7		ng/L	40.0		94.3	70-130			
Surrogate: d5-NEtFOSAA	170		ng/L	160		106	70-130			
LCS (B255419-BS1)				Prepared: 04	1/01/20 Anal	yzed: 04/02/2	20			
Perfluorobutanesulfonic acid (PFBS)	8.41	2.0	ng/L	8.85		95.1	70-130			
Perfluorohexanoic acid (PFHxA)	10.2	2.0	ng/L	10.0		102	70-130			
erfluorohexanesulfonic acid (PFHxS)	10.1	2.0	ng/L	9.10		111	70-130			
erfluoroheptanoic acid (PFHpA)	9.41	2.0	ng/L	10.0		94.1	70-130			
erfluorooctanoic acid (PFOA)	10.0	2.0	ng/L	10.0		100	70-130			
erfluorooctanesulfonic acid (PFOS)	9.62	2.0	ng/L	9.25		104	70-130			
erfluorononanoic acid (PFNA)	11.3	2.0	ng/L	10.0		113	70-130			
Perfluorodecanoic acid (PFDA)	10.3	2.0	ng/L	10.0		103	70-130			
N-EtFOSAA	12.1	2.0	ng/L	10.0		121	70-130			
erfluoroundecanoic acid (PFUnA)	10.1	2.0	ng/L	10.0		101	70-130			
N-MeFOSAA	12.1	2.0	ng/L	10.0		121	70-130			
Perfluorododecanoic acid (PFDoA)	10.6	2.0	ng/L	10.0		106	70-130			
erfluorotridecanoic acid (PFTrDA)	11.0	2.0	ng/L	10.0		110	70-130			
Perfluorotetradecanoic acid (PFTA)	10.8	2.0	ng/L	10.0		108	70-130			
Hexafluoropropylene oxide dimer acid	7.87	2.0	ng/L	10.0		78.7	70-130			
HFPO-DA)			_	_						
1Cl-PF3OUdS (F53B Major)	8.72	2.0	ng/L	9.40		92.8	70-130			
Cl-PF3ONS (F53B Minor)	10.4	2.0	ng/L	9.30		112	70-130			
,8-dioxa-3H-perfluorononanoic acid ADONA)	9.43	2.0	ng/L	10.0		94.3	70-130			
Surrogate: 13C-PFHxA	40.0		ng/L	40.0		99.9	70-130			
Surrogate: M3HFPO-DA	37.8		ng/L	40.0		94.5	70-130			
Surrogate: 13C-PFDA	40.6		ng/L	40.0		101	70-130			
Surrogate: d5-NEtFOSAA	174		ng/L	160		109	70-130			



QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B255389 - EPA 300.0										
Blank (B255389-BLK1)				Prepared &	Analyzed: 03	/31/20				
Nitrate as N	ND	0.10	mg/L							
Nitrite as N	ND	0.100	mg/L							
LCS (B255389-BS1)				Prepared &	Analyzed: 03	/31/20				
Nitrate as N	1.0		mg/L	1.00		101	90-110			
Nitrite as N	0.980		mg/L	1.00		98.0	90-110			
LCS Dup (B255389-BSD1)				Prepared &	Analyzed: 03	/31/20				
Nitrate as N	1.0		mg/L	1.00		101	90-110	0.0297	20	
Nitrite as N	0.981		mg/L	1.00		98.1	90-110	0.102	20	
Batch B255413 - SM 21-22 5210B										
Blank (B255413-BLK1)				Prepared &	Analyzed: 03	/31/20				
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B255413-BS1)				Prepared &	Analyzed: 03	/31/20				
Biochemical Oxygen Demand	180	2.0	mg/L	198		92.0	85-115			



FLAG/QUALIFIER SUMMARY

* OC re	esult is outside of	established limits.
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† 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

DL Method Detection Limit

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.



CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 300.0 in Drinking Water	
Nitrate as N	MA
Nitrite as N	MA
EPA 537.1 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorohexanoic acid (PFHxA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorohexanesulfonic acid (PFHxS)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluoroheptanoic acid (PFHpA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,NY,NH,PA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,NY,NH,PA
Perfluorononanoic acid (PFNA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorodecanoic acid (PFDA)	NH-P,VT-DW,NJ,CT,ME,PA
N-EtFOSAA	NH-P,VT-DW,NJ,CT,ME,PA
Perfluoroundecanoic acid (PFUnA)	NH-P,VT-DW,NJ,CT,ME,PA
N-MeFOSAA	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorododecanoic acid (PFDoA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorotridecanoic acid (PFTrDA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorotetradecanoic acid (PFTA)	NH-P,VT-DW,NJ,CT,ME,PA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,VT-DW,NJ,CT,ME,PA
11Cl-PF3OUdS (F53B Major)	NH-P,VT-DW,NJ,CT,ME,PA
9Cl-PF3ONS (F53B Minor)	NH-P,VT-DW,NJ,CT,ME,PA
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,VT-DW,NJ,CT,ME,PA

SM 21-22 5210B in Water

Biochemical Oxygen Demand CT,MA,NH,NY,RI,ME,VA,NC

 $The \ CON\text{-}TEST \ Environmental \ Laboratory \ operates \ under the following \ certifications \ and \ accreditations:$

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publile Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

20 (1375

http://www.contestlabs.com

Doc # 381 Rev 2_06262019

Glassware in freezer? Y / N Prepackaged Cooler? Y / N missing samples from prepacked *Contest is not responsible for analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Confest values your partnership on each project and will try to assist with missing information, but will not be Glassware in the fridge? Chain of Custody is a legal document that must be complete and accurate and is used to determine what Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The 1 Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air 2 Preservation Codes: | = Iced | H = HCI. Fotal Number Of: X = Sodium Hydroxide S = Soil SL = Sludge SOL = Solid O = Other (please 5 = Sulfuric Acid B = Sodium Bisulfate O = Other (please define) Non Soxhlet PCB ONLY Preservation Code coolers M = Methanol N = Nitric Acid Soxhlet Page of (BACTERIA PLASTIC VIALS ENCORE GLASS T = Sodium Thiosulfate possible sample concentration within the Conc M - High; M - Medium; L - Low; C - Clean; U -Please use the following codes to indicate ゲンカシの JEIZMA MELAC and AUIA-LAP, LLC Accredited Chromatogram

AIHA-LAP,LLC Code column above: ANALYSIS REQUESTED held accountable. Unknown PFAS 2118 MCP Certification Form Roquired MA MCP Required MA State DW Required CT RCP Requir RCP Certification Form Requi 155 39 Spruce Street East Longmeadow, MA 01028 ENCORE S Jay Email To: dedopowskig loverito, com BACTERIA Field Filtered Field Filtered Lab to Filter Lab to Filter Conc. Code VIALS GLASS PLASTIC School T MWRA CT RCP, LEA Equis 4 File format, N MBTA other: LEA Edus 4 file format CHAIN OF CUSTODY RECORD 0 0 0 0 Municipatity Due Date: Matrix Code Brownfield 30 10-Day 3 5 Oay 3-Day 4-Day COMP/GRAB CLP Like Data Pkg Required CRAR PFAS 10-Day (std) Ending Date/Time Government Fax To #: 42-Day Federal -Day -Day Project Entity Beginning Date/Time 106/6 NOW Email: info@contestlabs.com 3 りつろ Client Sample ID / Description Phone: 413-525-2332 Date/Time; (Fax: 413-525-6405 Date/Time: Date/Time: Date/Time: Jate/Time: -ONLARO 1701676 07310H Structicla 3 184601 SO Project Manager: John Con-Test Quote Name/Number: d COD-LAST (signature) ed by: (signature) (elinquished by: (signature) Relinquished by: (signature Project Location: 199 (signature) y: (signature) Received by: (signature) 500 Work Order# Con-Test Project Number: nvoice Recipient; sampled By: FED July 1 ab Comments eceived by: Received by Address: elinguis Page 14 of 16

IMPORTANT!

We are continuing to respond to the impact of COVID-19 around the world. <u>See our latest updates.</u> For COVID-19-related recipient closures, you can <u>redirect packages</u>, <u>Ask FedEx</u>, or contact the shipper.



770134572157



Delivered Tuesday 3/31/2020 at 9:25 am



DELIVERED

Signed for by: R.PIATRAS

GET STATUS UPDATES OBTAIN PROOF OF DELIVERY

FROM

PLAINVILLE, CT US

TO

EAST LONGMEADOW, MA US

Multiple-piece Shipment

2 Piece shipment

TRACKING NUMBER	SHIPPER CITY, STATE	SHIP DATE	STATUS	DELIVERY DATE	DESTINATION/RECIPIENT CITY, STATE
770134571025 (master)	WINDSOR LOCKS, CT	3/30/2020	Comment Commen	3/31/2020	EAST LONGMEADOW, MA
770134572157	WINDSOR LOCKS, CT	3/30/2020	Et trainmine Blancis es en Operation	3/31/2020	EAST LONGMEADOW, MA

Shipment Facts

TRACKING NUMBER 770134572157	SERVICE FedEx Priority Overnight	MASTER TRACKING NUMBER 770134571025
WEIGHT 37 lbs / 16.78 kgs	DELIVERED TO Shipping/Receiving	TOTAL PIECES
TOTAL SHIPMENT WEIGHT 37 lbs / 16.78 kgs	TERMS Shipper	SHIPPER REFERENCE 18HG001.001
PACKAGING Your Packaging	SPECIAL HANDLING SECTION Deliver Weekday	STANDARD TRANSIT (?) 3/31/2020 by 10:30 am

SHIP DATE

ACTUAL DELIVERY

Page 15 of 16

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



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													
		-	jht to the ai	itention of the s	Jlient -	State i rui	e or raise						
Client		ceigo			9	1		<u> </u>					
Receive	d By	RAP		Date	3/31	120	Time	925	*****				
How were the		In Cooler		No Cooler	*	On Ice		No Ice					
receive	30 <i>f</i>	Direct from Samp	ling			Ambient		⊥ Melted Ice					
More comple	an within		By Gun #	2	Δ	ctual Tem	ip - 31	Tai					
Were sample Temperature			By Blank #			ctual Tem	·		•				
•	Custody Se	ad Intant?	Δy blank # ΛΑ	Were S		Tampered		A	-6				
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		eaking/loose caps	on any sam	•	Agro C	e will ca	IIIhiea :		m				
Is COC in ink			On any sam	Were samples	- 1	nd within h	aldina time?)					
Did COC in		l Client		Analysis	T		oluing time : er Name		•				
pertinent Info		Project		ID's	1		Dates/Time	1 7	-				
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Proper Media/				•		amples red	quirea r		•				
	THE PERSON NAMED IN TAXABLE PARTY.	The second secon				7	Dana	Were trip blanks received? On COC? Base					
JO MIL CHILDING													
5		4 4 4	Nf	Acid			Base						
/ials		Containers:	Nf			#			#				
Vials Jnp-		Containers: 1 Liter Amb.		1 Liter Plas		ı	16 (oz Amb.	#				
Viais Jnp- -ICL-		Containers: 1 Liter Amb. 500 mL Amb.		1 Liter Plast 500 mL Plast	tic	#	16 d 8oz A	\mb/Clear	#				
Vials Unp- HCL- Weoh-		Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb.		1 Liter Plas 500 mL Plas 250 mL Plas	itic itic	ı	16 d 8oz A 4oz A	Amb/Clear Amb/Clear	#				
Vials Unp- HCL- Meoh- Bisulfate-		Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint		1 Liter Plas 500 mL Plas 250 mL Plas Col./Bacter	itic itic	ı	16 c 8oz A 4oz A 2oz A	Amb/Clear Amb/Clear Amb/Clear	,				
Vials Unp- HCL- Meoh- Bisulfate- DI-		Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass		1 Liter Plas 500 mL Plas 250 mL Plas Col./Bacter Other Plast	tic tic ia ic	ı	16 0 8oz A 4oz A 2oz A	Amb/Clear Amb/Clear	1				
Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate-		Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit		1 Liter Plast 500 mL Plast 250 mL Plast Col./Bacter Other Plast	tic tic ia ic	ı	16 c 8oz A 4oz A 2oz A	Amb/Clear Amb/Clear Amb/Clear	#				
Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate-		Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass		1 Liter Plass 500 mL Plass 250 mL Plass Col./Bacter Other Plast Plastic Bac Ziplock	etic stic sia sia sic sic sign	ı	16 0 8oz A 4oz A 2oz A	Amb/Clear Amb/Clear Amb/Clear	***************************************				
Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-		Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit		1 Liter Plast 500 mL Plast 250 mL Plast Col./Bacter Other Plast	etic stic sia sia sic sic sign	ı	16 0 8oz A 4oz A 2oz A	Amb/Clear Amb/Clear Amb/Clear	7				
Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials		Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers:		1 Liter Plass 500 mL Plass 250 mL Plass Col./Bacter Other Plast Plastic Bag Ziplock Unused Medi	atic ditic d	ı	16 c 8oz A 4oz A 2oz A E Frozen:	Amb/Clear Amb/Clear Amb/Clear Incore	#				
Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp-		Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb.		1 Liter Plass 500 mL Plass 250 mL Plass Col./Bacter Other Plast Plastic Bag Ziplock Unused Medi 1 Liter Plass	atic stic stic state sta	Ú .	16 c 8oz A 4oz A 2oz A E Frozen:	Amb/Clear Amb/Clear Amb/Clear Incore	**				
Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL-		Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb.		1 Liter Plass 500 mL Plass 250 mL Plass Col./Bacter Other Plast Plastic Bac Ziplock Unused Medi 1 Liter Plass 500 mL Plass	atic stic stic state sta	Ú .	16 c 8oz A 4oz A 2oz A E Frozen:	Amb/Clear Amb/Clear Amb/Clear Incore Doz Amb.	#				
Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh-		Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb.		1 Liter Plass 500 mL Plass 250 mL Plass Col./Bacter Other Plast Plastic Bag Ziplock Unused Medi 1 Liter Plass 500 mL Plass 250 mL Plass	itic ditic d	Ú .	16 c 8oz A 4oz A 2oz A E Frozen:	Amb/Clear Amb/Clear Amb/Clear Incore DZ Amb. Amb/Clear	***************************************				
Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate-		Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria		1 Liter Plasi 500 mL Plasi 250 mL Plasi Col./Bacter Other Plast Plastic Bag Ziplock Unused Medi 1 Liter Plasi 500 mL Plasi 250 mL Plasi Flashpoini	atic ditic d	Ú .	16 0 80z A 40z A 20z A E Frozen:	Amb/Clear Amb/Clear Amb/Clear Incore Dz Amb. Amb/Clear Amb/Clear	#				
Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate- DI- DI- DI- DI- DI- DI- DI- DI- DI- DI		Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic		1 Liter Plass 500 mL Plass 250 mL Plass Col./Bacter Other Plastic Bag Ziplock Unused Medi 1 Liter Plass 500 mL Plass 250 mL Plass Flashpoint Other Glass	atic dia	Ú .	16 c 8oz A 4oz A 2oz A E Frozen: 16 c 8oz A 4oz A 2oz A	Amb/Clear Amb/Clear Amb/Clear Incore DZ Amb. Amb/Clear	#				
Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- DI- Thiosulfate- DI- Thiosulfate-		Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit		1 Liter Plass 500 mL Plass 250 mL Plass Col./Bacter Other Plast Plastic Bac Ziplock Unused Medi 1 Liter Plass 500 mL Plass 250 mL Plass Flashpoint Other Glass Plastic Bac	atic dia	Ú .	16 0 80z A 40z A 20z A E Frozen:	Amb/Clear Amb/Clear Amb/Clear Incore Dz Amb. Amb/Clear Amb/Clear	#				
Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Chiosulfate- Sulfuric-		Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic		1 Liter Plass 500 mL Plass 250 mL Plass Col./Bacter Other Plastic Bag Ziplock Unused Medi 1 Liter Plass 500 mL Plass 250 mL Plass Flashpoint Other Glass	atic dia	Ú .	16 c 8oz A 4oz A 2oz A E Frozen: 16 c 8oz A 4oz A 2oz A	Amb/Clear Amb/Clear Amb/Clear Incore Dz Amb. Amb/Clear Amb/Clear					
Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Chiosulfate- Sulfuric-		Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit		1 Liter Plass 500 mL Plass 250 mL Plass Col./Bacter Other Plast Plastic Bac Ziplock Unused Medi 1 Liter Plass 500 mL Plass 250 mL Plass Flashpoint Other Glass Plastic Bac	atic dia	Ú .	16 c 8oz A 4oz A 2oz A E Frozen: 16 c 8oz A 4oz A 2oz A	Amb/Clear Amb/Clear Amb/Clear Incore Dz Amb. Amb/Clear Amb/Clear					
Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh-		Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit		1 Liter Plass 500 mL Plass 250 mL Plass Col./Bacter Other Plast Plastic Bac Ziplock Unused Medi 1 Liter Plass 500 mL Plass 250 mL Plass Flashpoint Other Glass Plastic Bac	atic dia	Ú .	16 c 8oz A 4oz A 2oz A E Frozen: 16 c 8oz A 4oz A 2oz A	Amb/Clear Amb/Clear Amb/Clear Incore Dz Amb. Amb/Clear Amb/Clear	#				
Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Chiosulfate- Sulfuric-		Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit		1 Liter Plass 500 mL Plass 250 mL Plass Col./Bacter Other Plast Plastic Bac Ziplock Unused Medi 1 Liter Plass 500 mL Plass 250 mL Plass Flashpoint Other Glass Plastic Bac	atic dia	Ú .	16 c 8oz A 4oz A 2oz A E Frozen: 16 c 8oz A 4oz A 2oz A	Amb/Clear Amb/Clear Amb/Clear Incore Dz Amb. Amb/Clear Amb/Clear					
Vals Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Gulfuric- Vals Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Chiosulfate- Gulfuric-		Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit		1 Liter Plass 500 mL Plass 250 mL Plass Col./Bacter Other Plast Plastic Bac Ziplock Unused Medi 1 Liter Plass 500 mL Plass 250 mL Plass Flashpoint Other Glass Plastic Bac	atic dia	Ú .	16 c 8oz A 4oz A 2oz A E Frozen: 16 c 8oz A 4oz A 2oz A	Amb/Clear Amb/Clear Amb/Clear Incore Dz Amb. Amb/Clear Amb/Clear					



April 7, 2020

John Bondos Loureiro Engineering Associates 100 Northwest Drive Plainville, CT 06062

Project Location: 366 Cow Hill Rd

Client Job Number:

Project Number: 18HG001.001

Laboratory Work Order Number: 20C1379

Enclosed are results of analyses for samples received by the laboratory on March 31, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano Project Manager

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Loureiro Engineering Associates

100 Northwest Drive Plainville, CT 06062

ATTN: John Bondos

REPORT DATE: 4/7/2020

20C1379

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 18HG001.001

ANALYTICAL SUMMARY

WORK ORDER NUMBER:

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

PROJECT LOCATION: 366 Cow Hill Rd

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1401676	20C1379-01	Drinking Water		EPA 300.0	
				EPA 537.1	
1401677	20C1379-02	Drinking Water		EPA 537.1	
1401676	20C1379-03	Drinking Water		SM 21-22 5210B	



CASE NARRATIVE SUMMARY

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

 $The \ results \ of \ analyses \ reported \ only \ relate \ to \ samples \ submitted \ to \ the \ Con-Test \ Analytical \ Laboratory \ for \ testing.$

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

Work Order: 20C1379



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

Sample Description:

Project Location: 366 Cow Hill Rd
Date Received: 3/31/2020
Field Sample #: 1401676

Sampled: 3/30/2020 12:15

88.7

Sample ID: 20C1379-01

d5-NEtFOSAA

Sample Matrix: Drinking Water										
Semivolatile Organic Compounds by - LC/MS-MS										
	D 1/		MCL/SMCL MA ORSG					Date	Date/Time	
Analyte	Results		MA URSG	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:21	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:21	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:21	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:21	BLM
Perfluorooctanoic acid (PFOA)	2.3	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:21	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:21	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:21	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:21	BLM
N-EtFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:21	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:21	BLM
N-MeFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:21	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:21	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:21	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:21	BLM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:21	BLM
11Cl-PF3OUdS (F53B Major)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:21	BLM
9Cl-PF3ONS (F53B Minor)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:21	BLM
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:21	BLM
Surrogates		% Recovery	Recovery	Limits		Flag/Qual	-			
13C-PFHxA		93.5	70-1	30					4/2/20 21:21	
M3HFPO-DA		86.4	70-1						4/2/20 21:21	
13C-PFDA		78.2	70-1	30					4/2/20 21:21	

70-130

4/2/20 21:21



Sample Description: Work Order: 20C1379

Date Received: 3/31/2020

Field Sample #: 1401676

Project Location: 366 Cow Hill Rd

Sampled: 3/30/2020 12:15

Sample ID: 20C1379-01
Sample Matrix: Drinking Water

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

			MCL/SMCL					Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Nitrate as N	3.4	0.10	10	mg/L	1		EPA 300.0	3/31/20	3/31/20 17:32	IS
Nitrite as N	ND	0.100	1	mg/L	1		EPA 300.0	3/31/20	3/31/20 17:32	IS



Sample Description: Work Order: 20C1379

Project Location: 366 Cow Hill Rd
Date Received: 3/31/2020
Field Sample #: 1401677

Sampled: 3/30/2020 12:15

105

Sample ID: 20C1379-02
Sample Matrix: Drinking Wate

d5-NEtFOSAA

Sample Matrix: Drinking Water										
		Semivo	latile Organic C	ompounds	by - LC/	MS-MS				
		1	MCL/SMCL					Date	Date/Time	
Analyte	Results	RL	MA ORSG U	nits	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	r	ng/L	1		EPA 537.1	4/1/20	4/2/20 21:43	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	r	ng/L	1		EPA 537.1	4/1/20	4/2/20 21:43	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	r	ng/L	1		EPA 537.1	4/1/20	4/2/20 21:43	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	r	ng/L	1		EPA 537.1	4/1/20	4/2/20 21:43	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	r	ng/L	1		EPA 537.1	4/1/20	4/2/20 21:43	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	r	ng/L	1		EPA 537.1	4/1/20	4/2/20 21:43	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	r	ng/L	1		EPA 537.1	4/1/20	4/2/20 21:43	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	r	ng/L	1		EPA 537.1	4/1/20	4/2/20 21:43	BLM
N-EtFOSAA	ND	2.0	r	ng/L	1		EPA 537.1	4/1/20	4/2/20 21:43	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	r	ng/L	1		EPA 537.1	4/1/20	4/2/20 21:43	BLM
N-MeFOSAA	ND	2.0	r	ng/L	1		EPA 537.1	4/1/20	4/2/20 21:43	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	r	ng/L	1		EPA 537.1	4/1/20	4/2/20 21:43	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	r	ng/L	1		EPA 537.1	4/1/20	4/2/20 21:43	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	r	ng/L	1		EPA 537.1	4/1/20	4/2/20 21:43	BLM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	r	ng/L	1		EPA 537.1	4/1/20	4/2/20 21:43	BLM
11Cl-PF3OUdS (F53B Major)	ND	2.0	r	ng/L	1		EPA 537.1	4/1/20	4/2/20 21:43	BLM
9Cl-PF3ONS (F53B Minor)	ND	2.0	r	ng/L	1		EPA 537.1	4/1/20	4/2/20 21:43	BLM
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0	r	ng/L	1		EPA 537.1	4/1/20	4/2/20 21:43	BLM
Surrogates		% Recovery	Recovery Li	mits		Flag/Qual				
13C-PFHxA		96.6	70-130						4/2/20 21:43	
M3HFPO-DA		88.5	70-130						4/2/20 21:43	
13C-PFDA		92.7	70-130						4/2/20 21:43	

70-130

4/2/20 21:43



Sample Description: Work Order: 20C1379

Project Location: 366 Cow Hill Rd Date Received: 3/31/2020 Field Sample #: 1401676

Sampled: 3/30/2020 12:15

Sample ID: 20C1379-03
Sample Matrix: Drinking Water

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

							Date	Date/Time	
Analyte	Results	RL	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Biochemical Oxygen Demand	ND	4.0	mg/L	1		SM 21-22 5210B	3/31/20	3/31/20 18:55	EC



Sample Extraction Data

Prep Method: EPA 300.0-EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20C1379-01 [1401676]	B255389	10.0	10.0	03/31/20

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20C1379-01 [1401676]	B255419	250	1.00	04/01/20
20C1379-02 [1401677]	B255419	250	1.00	04/01/20

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
20C1379-03 [1401676]	B255413	150	03/31/20



QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B255419 - EPA 537.1										
Blank (B255419-BLK1)				Prepared: 04	1/01/20 Anal	yzed: 04/02/2	20			
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
erfluorononanoic acid (PFNA)	ND	2.0	ng/L							
erfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
N-EtFOSAA	ND	2.0	ng/L							
erfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
I-MeFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Hexafluoropropylene oxide dimer acid HFPO-DA)	ND	2.0	ng/L							
1Cl-PF3OUdS (F53B Major)	ND	2.0	ng/L							
Cl-PF3ONS (F53B Minor)	ND	2.0	ng/L							
,8-dioxa-3H-perfluorononanoic acid ADONA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	37.9		ng/L	40.0		94.8	70-130			
Surrogate: M3HFPO-DA	35.8		ng/L	40.0		89.4	70-130			
Surrogate: 13C-PFDA	37.7		ng/L	40.0		94.3	70-130			
surrogate: d5-NEtFOSAA	170		ng/L	160		106	70-130			
LCS (B255419-BS1)				Prepared: 04	1/01/20 Anal	yzed: 04/02/2	20			
Perfluorobutanesulfonic acid (PFBS)	8.41	2.0	ng/L	8.85		95.1	70-130			
Perfluorohexanoic acid (PFHxA)	10.2	2.0	ng/L	10.0		102	70-130			
erfluorohexanesulfonic acid (PFHxS)	10.1	2.0	ng/L	9.10		111	70-130			
erfluoroheptanoic acid (PFHpA)	9.41	2.0	ng/L	10.0		94.1	70-130			
erfluorooctanoic acid (PFOA)	10.0	2.0	ng/L	10.0		100	70-130			
erfluorooctanesulfonic acid (PFOS)	9.62	2.0	ng/L	9.25		104	70-130			
erfluorononanoic acid (PFNA)	11.3	2.0	ng/L	10.0		113	70-130			
Perfluorodecanoic acid (PFDA)	10.3	2.0	ng/L	10.0		103	70-130			
N-EtFOSAA	12.1	2.0	ng/L	10.0		121	70-130			
erfluoroundecanoic acid (PFUnA)	10.1	2.0	ng/L	10.0		101	70-130			
N-MeFOSAA	12.1	2.0	ng/L	10.0		121	70-130			
Perfluorododecanoic acid (PFDoA)	10.6	2.0	ng/L	10.0		106	70-130			
Perfluorotridecanoic acid (PFTrDA)	11.0	2.0	ng/L	10.0		110	70-130			
Perfluorotetradecanoic acid (PFTA)	10.8	2.0	ng/L	10.0		108	70-130			
Hexafluoropropylene oxide dimer acid	7.87	2.0	ng/L	10.0		78.7	70-130			
HFPO-DA)			_	_						
1Cl-PF3OUdS (F53B Major)	8.72	2.0	ng/L	9.40		92.8	70-130			
Cl-PF3ONS (F53B Minor)	10.4	2.0	ng/L	9.30		112	70-130			
,8-dioxa-3H-perfluorononanoic acid ADONA)	9.43	2.0	ng/L	10.0		94.3	70-130			
Surrogate: 13C-PFHxA	40.0		ng/L	40.0		99.9	70-130			
Surrogate: M3HFPO-DA	37.8		ng/L	40.0		94.5	70-130			
Surrogate: 13C-PFDA	40.6		ng/L	40.0		101	70-130			
Surrogate: d5-NEtFOSAA	174		ng/L	160		109	70-130			



QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B255389 - EPA 300.0										
Blank (B255389-BLK1)	Prepared & Analyzed: 03/31/20									
Nitrate as N	ND	0.10	mg/L							
Nitrite as N	ND	0.100	mg/L							
LCS (B255389-BS1)				Prepared &	Analyzed: 03	/31/20				
Nitrate as N	1.0		mg/L	1.00		101	90-110			
Nitrite as N	0.980		mg/L	1.00		98.0	90-110			
LCS Dup (B255389-BSD1)				Prepared &	Analyzed: 03	/31/20				
Nitrate as N	1.0		mg/L	1.00		101	90-110	0.0297	20	
Nitrite as N	0.981		mg/L	1.00		98.1	90-110	0.102	20	
Batch B255413 - SM 21-22 5210B										
Blank (B255413-BLK1)				Prepared &	Analyzed: 03	/31/20				
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B255413-BS1)				Prepared &	Analyzed: 03	/31/20				
Biochemical Oxygen Demand	180	2.0	mg/L	198		92.0	85-115			



FLAG/QUALIFIER SUMMARY

* OC re	sult 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

DL Method Detection Limit

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.



CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 300.0 in Drinking Water	
Nitrate as N	MA
Nitrite as N	MA
EPA 537.1 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorohexanoic acid (PFHxA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorohexanesulfonic acid (PFHxS)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluoroheptanoic acid (PFHpA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,NY,NH,PA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,NY,NH,PA
Perfluorononanoic acid (PFNA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorodecanoic acid (PFDA)	NH-P,VT-DW,NJ,CT,ME,PA
N-EtFOSAA	NH-P,VT-DW,NJ,CT,ME,PA
Perfluoroundecanoic acid (PFUnA)	NH-P,VT-DW,NJ,CT,ME,PA
N-MeFOSAA	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorododecanoic acid (PFDoA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorotridecanoic acid (PFTrDA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorotetradecanoic acid (PFTA)	NH-P,VT-DW,NJ,CT,ME,PA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,VT-DW,NJ,CT,ME,PA
11Cl-PF3OUdS (F53B Major)	NH-P,VT-DW,NJ,CT,ME,PA
9Cl-PF3ONS (F53B Minor)	NH-P,VT-DW,NJ,CT,ME,PA
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,VT-DW,NJ,CT,ME,PA

SM 21-22 5210B in Water

Biochemical Oxygen Demand CT,MA,NH,NY,RI,ME,VA,NC

 $The \ CON\text{-}TEST \ Environmental \ Laboratory \ operates \ under the following \ certifications \ and \ accreditations:$

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publile Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

Table of Contents Glassware in freezer? Y / N Prepackaged Cooler? Y / N "Contest is not responsible for missing samples from prepacked analyses the taboratory will perform. Any missing information is not the laboratory's responsibility. Con Test values your partnership on each project and will try to assist with missing information, but will not b Glassware in the fridge? Chain of Custody is a legal document that must be complete and accurate and is used to determine whai Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The 1 Matrix Codes: GW = Ground Water WW = Waste Water DW = Drinking Water Total Number Of: ² Preservation Codes: X = Sodium Hydroxide SL = Studge SOL = Solid O = Other (please S = Sulfuric Acid B = Sodium Bisulfate Thiosulfate O = Other (please Non Soxhlet I = Iced H = HCL M = Methanol N = Nitric Acid Preservation Code PCB ONLY coolers Soxhiet BACTERIA GLASS PLASTIC ENCORE Page tof VIALS T = Sodium A = Air S = Soil define) define) アルスの possible sample concentration within the Conc Code column above: H - High; M - Medium; L - Low; C - Clean; U -Please use the following codes to indicate NELAC and Alta LAP, LLC Accredited Chromatogram
AIHA-LAP,LLC AIHA-LAP,LLC ANALYSIS REQUESTED PAR held accountable. Doc # 381 Rev 2_06262019 Pary MCP Certification Form Required RCP Certification Form Required MA MCP Required MA State DW Required 155 CT RCP Regu 39 Spruce Street East Longmeadow, MA 01028 ENCORE N BACTERIA EXCEL CT PLP, LEA Equis 4 File tollows, Field Filtered Field Filtered Lab to Fitter Lab to Filter PLASTIC Schoot S MWRA MBTA GLASS CHAIN OF CUSTOBY RECORD VIALS 0 0 0 0 Conc Code http://www.contestlabs.com Municipatity Due Date: Brownfield 'Matrix Code 30 3 10-Day 5 Day 3-vay WSID 3 Other: LEA Equis 4 CLP Like Data Pkg Required COMP/GRAB PFAS 10-Day (std) Ending Date/Time Government Email To: Fax To #: Federal -Day -Day -Day City Project Entity Walle Beginning Date/Time Email: info@contestlabs.com 30 Dave/Time: 9)/5 5/3, 9)/f Date/Time: Client Sample ID / Description Phone: 413-525-2332 Fax: 413-525-6405 Date/Time: Date/Time: Date/Time: Date/Time: 130 -0 V FCFT 1401676 120 021 させる 2 shows 3846 001.00 5 tons F10ld 7) 2001379 Con-Test Quote Name/Number: Refered by Kigneture) COD-KSK d by: (signature) elinquished by: (signature) Relinquished by: (signatu by: (signature) Received by: (signature) Ş Work Order# Con-Test Project Location: Project Manager: invoice Recipient: Project Number: Lab Comments: Sampled By: Y AT Address:

Page 14 of 16

IMPORTANT!

We are continuing to respond to the impact of COVID-19 around the world. <u>See our latest updates.</u> For COVID-19-related recipient closures, you can <u>redirect packages</u>, <u>Ask FedEx</u>, or contact the shipper.







Delivered Tuesday 3/31/2020 at 9:25 am



DELIVERED

Signed for by: R.PIATRAS

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FROM

PLAINVILLE, CT US - HE TO THE

TO

EAST LÔNGMEADOW, MA US

Multiple-piece Shipment

2 Piece shipment

TRACKING NUMBER	SHIPPER CITY, STATE	SHIP DATE	STATUS	DELIVERY DATE	DESTINATION/RECIPIENT CITY, STATE
770134571025 (master)	WINDSOR LOCKS, CT	3/30/2020	Contract Constrained Contract	3/31/2020	EAST LONGMEADOW, MA
770134572157	WINDSOR LOCKS, CT	3/30/2020	Company Comments Company	3/31/2020	EAST LONGMEADOW, MA

Shipment Facts

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		25								

770134572157

SERVICE

FedEx Priority Overnight

MASTER TRACKING NUMBER

770134571025

WEIGHT

37 lbs / 16.78 kgs

DELIVERED TOShipping/Receiving

TOTAL PIECES

TOTAL SHIPMENT WEIGHT

TERMS

SHIPPER REFERENCE

37 lbs / 16.78 kgs

10

Shipper

18HG001.001

PACKAGING

Your Packaging

SPECIAL HANDLING SECTION

Deliver Weekday

STANDARD TRANSIT

(1)

3/31/2020 by 10:30 am

SHIP DATE

ACTUAL DELIVERY

https://www.fedex.com/apps/fedextrack/?action=track&trackingnumber=770134572157&cntry_code=us&locale=en_US

Page 15 of 16

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



Doc# 277 Rev 5 2017

Login Sample Rec	ceipt Checklist - nent will be brou	10 000			_	Acceptar			
	rent will be brou	gni to the at	(tention or	THE CHE	:	State 110	e ui raise		
Received By	RAD		Date	31	31	20	Time	925	
How were the samples	In Cooler		- No Cooler	,	-	On Ice		No Ice	
received?	Direct from Samp	nlina	140 000101			Ambient		Melted Ice	
	Direct nom Camp	By Gun #	2	-1		Actual Tem	n_ 7.	T(A	
Were samples within		100 A		-				141	_
Temperature? 2-6°C	!	By Blank #		- Comr		Actual Tem	THE PERSON NAMED IN COLUMN 1	A	
Was Custody Se Was COC Relin			-	mostami mosta en 18 1 4	S 26 23	Tampered e With Sa		1	_
Are there broken/le	(3)	on any sam	Me .	S CHair.	F	C WILL OU	mpica:		-
Is COC in ink/ Legible?		On any Jan		mples red	ı ceive	ed within h	olding time	?	
Did COC include all	Client	T	Analysis	T			er Name	T	_
pertinent Information?	Project	T	ID's	T		Collection	Dates/Time	es <u> </u>	_
Are Sample labels filled	the transfer of many or persons—recommend to it								
Are there Lab to Filters?	f.	F	•			notified?	***************************************		Mark .
Are there Rushes?						notified?	1/2		_
Are there Short Holds?	^		· E	Who w	was	notified?	Irma		-
s there enough Volume				AAC/MACT	רר	£			
s there Headspace whe Proper Media/Containers			Contraction of the Contraction o	MS/MSE	_	amples rec	wired?	F	. 8
Proper Media/Container: Were trip <u>blanks rece</u> ive				On COC	-	Altiples fec	Juli eu :		-
Do all samples have the	The same of	116	Acid	011 000	<u></u>		Base	A company of the comp	
and the second s		MA							
als # Unp-	Containers: 1 Liter Amb.	•	1 Liter	Plastic			167	oz Amb.	
HCL-	500 mL Amb.			- Plastic		1	· · · · · · · · · · · · · · · · · · ·	\mb/Clear	
Meoh-	250 mL Amb.			- Plastic	\top	ù -		Amb/Clear	
Bisulfate-	Flashpoint			acteria				Amb/Clear	
Ol-	Other Glass		Other	Plastic			E	ncore	
Thiosulfate-	SOC Kit			ic Bag			Frozen:		
Sulfuric-	Perchlorate		Zipl	lock					
			Unused I	Media					
	Jananes :					į			
Jnp-	1 Liter Amb.			Plastic	4			oz Amb.	
HCL-	500 mL Amb.			. Plastic	+			mb/Clear	
Vleoh- Bisulfate-	250 mL Amb. Col./Bacteria			. Plastic point				mb/Clear mb/Clear	
DI-	Other Plastic			Glass				ncore	
Thiosulfate-	SOC Kit			c Bag	+		Frozen:	110010	
Sulfuric-	Perchlorate			lock				95 SQUARE - 1975	20200000000000000000000000000000
Comments:									



April 7, 2020

John Bondos Loureiro Engineering Associates 100 Northwest Drive Plainville, CT 06062

Project Location: 195 Oral School Rd, Groton, CT

Client Job Number:

Project Number: 18HG001.001

Laboratory Work Order Number: 20C1378

Enclosed are results of analyses for samples received by the laboratory on March 31, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano Project Manager

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Loureiro Engineering Associates

100 Northwest Drive Plainville, CT 06062

ATTN: John Bondos

REPORT DATE: 4/7/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 18HG001.001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20C1378

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

PROJECT LOCATION: 195 Oral School Rd, Groton, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1401673	20C1378-01	Drinking Water		EPA 300.0	
				EPA 537.1	
1401674	20C1378-02	Drinking Water		EPA 537.1	
1401673	20C1378-03	Drinking Water		SM 21-22 5210B	



CASE NARRATIVE SUMMARY

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

EPA 537.1

Qualifications:

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

11Cl-PF3OUdS (F53B Major) B255419-MSD1

 $The \ results \ of \ analyses \ reported \ only \ relate \ to \ samples \ submitted \ to \ the \ Con-Test \ Analytical \ Laboratory \ for \ testing.$

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



Project Location: 195 Oral School Rd, Groton, CT Sample Description: Work Order: 20C1378

Date Received: 3/31/2020 Field Sample #: 1401673

Sampled: 3/30/2020 10:30

85.5

75.7

82.5

Sample ID: 20C1378-01
Sample Matrix: Drinking Water

M3HFPO-DA

d5-NEtFOSAA

13C-PFDA

		Semivo	latile Organi	c Compoun	ds by - LC/	MS-MS				
Analyte	Results		MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 20:38	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 20:38	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 20:38	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 20:38	BLM
Perfluorooctanoic acid (PFOA)	2.1	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 20:38	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 20:38	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 20:38	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 20:38	BLM
N-EtFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 20:38	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 20:38	BLM
N-MeFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 20:38	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 20:38	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 20:38	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 20:38	BLM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 20:38	BLM
11Cl-PF3OUdS (F53B Major)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 20:38	BLM
9Cl-PF3ONS (F53B Minor)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 20:38	BLM
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 20:38	BLM
Surrogates		% Recovery	Recovery	Limits		Flag/Qual				
13C-PFHxA		89.1	70-1	30					4/2/20 20:38	

70-130

70-130

70-130

4/2/20 20:38

4/2/20 20:38

4/2/20 20:38



Project Location: 195 Oral School Rd, Groton, CT Sample Description: Work Order: 20C1378

Date Received: 3/31/2020 Field Sample #: 1401673

Sampled: 3/30/2020 10:30

Sample ID: 20C1378-01
Sample Matrix: Drinking Water

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

MCL/SMCL								Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Nitrate as N	1.0	0.10	10	mg/L	1		EPA 300.0	3/31/20	3/31/20 16:25	IS
Nitrite as N	ND	0.100	1	mg/L	1		EPA 300.0	3/31/20	3/31/20 16:25	IS



Project Location: 195 Oral School Rd, Groton, CT Sample Description: Work Order: 20C1378

Date Received: 3/31/2020 Field Sample #: 1401674

Sampled: 3/30/2020 10:30

Sample ID: 20C1378-02
Sample Matrix: Drinking Wat

		Semivol	atile Organi	c Compoun	ds by - LC/	MS-MS				
Analyte	Results		MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:00	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:00	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:00	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:00	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:00	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:00	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:00	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:00	BLM
N-EtFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:00	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:00	BLM
N-MeFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:00	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:00	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:00	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:00	BLM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:00	BLM
11Cl-PF3OUdS (F53B Major)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:00	BLM
9Cl-PF3ONS (F53B Minor)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:00	BLM
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 21:00	BLM
Surrogates		% Recovery	Recovery	Limits		Flag/Qual				
13C-PFHxA		90.7	70-1						4/2/20 21:00	
M3HFPO-DA		84.8	70-1						4/2/20 21:00	
13C-PFDA		87.9	70-1						4/2/20 21:00	
d5-NEtFOSAA		96.9	70-1	30					4/2/20 21:00	



Project Location: 195 Oral School Rd, Groton, CT Sample Description: Work Order: 20C1378

Date Received: 3/31/2020 Field Sample #: 1401673

Sampled: 3/30/2020 10:30

Sample ID: 20C1378-03
Sample Matrix: Drinking Water

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

							Date	Date/Time	
Analyte	Results	RL	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Biochemical Oxygen Demand	ND	4.0	mg/L	1		SM 21-22 5210B	3/31/20	3/31/20 18:55	EC



Sample Extraction Data

Prep Method: EPA 300.0-EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20C1378-01 [1401673]	B255389	10.0	10.0	03/31/20

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20C1378-01 [1401673]	B255419	250	1.00	04/01/20
20C1378-02 [1401674]	B255419	250	1.00	04/01/20

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
20C1378-03 [1401673]	B255413	150	03/31/20



QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B255419 - EPA 537.1										
Blank (B255419-BLK1)				Prepared: 04	1/01/20 Analy	yzed: 04/02/2	20			
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
erfluorononanoic acid (PFNA)	ND	2.0	ng/L							
erfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
I-EtFOSAA	ND	2.0	ng/L							
erfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
I-MeFOSAA	ND	2.0	ng/L							
erfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
lexafluoropropylene oxide dimer acid HFPO-DA)	ND	2.0	ng/L							
1Cl-PF3OUdS (F53B Major)	ND	2.0	ng/L							
Cl-PF3ONS (F53B Minor)	ND	2.0	ng/L							
8-dioxa-3H-perfluorononanoic acid ADONA)	ND	2.0	ng/L							
urrogate: 13C-PFHxA	37.9		ng/L	40.0		94.8	70-130			
urrogate: M3HFPO-DA	35.8		ng/L	40.0		89.4	70-130			
urrogate: 13C-PFDA	37.7		ng/L	40.0		94.3	70-130			
urrogate: d5-NEtFOSAA	170		ng/L	160		106	70-130			
LCS (B255419-BS1)				Prepared: 04	1/01/20 Analy	yzed: 04/02/2	20			
erfluorobutanesulfonic acid (PFBS)	8.41	2.0	ng/L	8.85		95.1	70-130			
erfluorohexanoic acid (PFHxA)	10.2	2.0	ng/L	10.0		102	70-130			
erfluorohexanesulfonic acid (PFHxS)	10.1	2.0	ng/L	9.10		111	70-130			
erfluoroheptanoic acid (PFHpA)	9.41	2.0	ng/L	10.0		94.1	70-130			
erfluorooctanoic acid (PFOA)	10.0	2.0	ng/L	10.0		100	70-130			
erfluorooctanesulfonic acid (PFOS)	9.62	2.0	ng/L	9.25		104	70-130			
'erfluorononanoic acid (PFNA)	11.3	2.0	ng/L	10.0		113	70-130			
erfluorodecanoic acid (PFDA)	10.3	2.0	ng/L	10.0		103	70-130			
I-EtFOSAA	12.1	2.0	ng/L	10.0		121	70-130			
erfluoroundecanoic acid (PFUnA)	10.1	2.0	ng/L	10.0		101	70-130			
I-MeFOSAA	12.1	2.0	ng/L	10.0		121	70-130			
'erfluorododecanoic acid (PFDoA)	10.6	2.0	ng/L	10.0		106	70-130			
erfluorotridecanoic acid (PFTrDA)	11.0	2.0	ng/L	10.0		110	70-130			
erfluorotetradecanoic acid (PFTA)	10.8	2.0	ng/L	10.0		108	70-130			
fexafluoropropylene oxide dimer acid HFPO-DA)	7.87	2.0	ng/L	10.0		78.7	70-130			
1Cl-PF3OUdS (F53B Major)	8.72	2.0	ng/L	9.40		92.8	70-130			
Cl-PF3ONS (F53B Minor)	10.4	2.0	ng/L	9.30		112	70-130			
,8-dioxa-3H-perfluorononanoic acid ADONA)	9.43	2.0	ng/L	10.0		94.3	70-130			
urrogate: 13C-PFHxA	40.0		ng/L	40.0		99.9	70-130			
urrogate: M3HFPO-DA	37.8		ng/L	40.0		94.5	70-130			
Surrogate: 13C-PFDA	40.6		ng/L	40.0		101	70-130			
Surrogate: d5-NEtFOSAA	174		ng/L	160		109	70-130			

RPD

%REC



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

QUALITY CONTROL

Spike

Source

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B255419 - EPA 537.1		•								
Matrix Spike (B255419-MS1)	Source	Source: 20C1378-01 Prepared: 04/01/2			/01/20 Analyzed: 04/02/20					
erfluorobutanesulfonic acid (PFBS)	7.92	2.0	ng/L	8.85	ND	89.5	70-130			
erfluorohexanoic acid (PFHxA)	10.4	2.0	ng/L	10.0	ND	104	70-130			
erfluorohexanesulfonic acid (PFHxS)	9.74	2.0	ng/L	9.10	ND	107	70-130			
erfluoroheptanoic acid (PFHpA)	10.0	2.0	ng/L	10.0	ND	100	70-130			
erfluorooctanoic acid (PFOA)	11.0	2.0	ng/L	10.0	2.11	89.4	70-130			
erfluorooctanesulfonic acid (PFOS)	9.56	2.0	ng/L	9.25	ND	103	70-130			
erfluorononanoic acid (PFNA)	10.3	2.0	ng/L	10.0	ND	103	70-130			
erfluorodecanoic acid (PFDA)	8.56	2.0	ng/L	10.0	ND	85.6	70-130			
-EtFOSAA	10.2	2.0	ng/L	10.0	ND	102	70-130			
erfluoroundecanoic acid (PFUnA)	7.63	2.0	ng/L	10.0	ND	76.3	70-130			
-MeFOSAA	10.3	2.0	ng/L	10.0	ND	103	70-130			
erfluorododecanoic acid (PFDoA)	8.61	2.0	ng/L	10.0	ND	86.1	70-130			
erfluorotridecanoic acid (PFTrDA)	8.82	2.0	ng/L	10.0	ND	88.2	70-130			
erfluorotetradecanoic acid (PFTA)	8.24	2.0	ng/L	10.0	ND	82.4	70-130			
exafluoropropylene oxide dimer acid HFPO-DA)	7.10	2.0	ng/L	10.0	ND	71.0	70-130			
Cl-PF3OUdS (F53B Major)	6.97	2.0	ng/L	9.40	ND	74.2	70-130			
Cl-PF3ONS (F53B Minor)	8.48	2.0	ng/L	9.30	ND	91.2	70-130			
8-dioxa-3H-perfluorononanoic acid ADONA)	8.85	2.0	ng/L	10.0	ND	88.5	70-130			
urrogate: 13C-PFHxA	36.5		ng/L	40.0		91.3	70-130			
urrogate: M3HFPO-DA	35.9		ng/L	40.0		89.9	70-130			
urrogate: 13C-PFDA	32.6		ng/L	40.0		81.5	70-130			
nrogate: d5-NEtFOSAA	142		ng/L	160		89.0	70-130			
latrix Spike Dup (B255419-MSD1)	Source	ce: 20C1378-	01	Prepared: 04	1/01/20 Analyz	zed: 04/02/2	20			
erfluorobutanesulfonic acid (PFBS)	7.62	2.0	ng/L	8.85	ND	86.1	70-130	3.97	30	
erfluorohexanoic acid (PFHxA)	10.2	2.0	ng/L	10.0	ND	102	70-130	2.04	30	
erfluorohexanesulfonic acid (PFHxS)	9.44	2.0	ng/L	9.10	ND	104	70-130	3.07	30	
erfluoroheptanoic acid (PFHpA)	9.77	2.0	ng/L	10.0	ND	97.7	70-130	2.34	30	
erfluorooctanoic acid (PFOA)	11.0	2.0	ng/L	10.0	2.11	88.8	70-130	0.498	30	
erfluorooctanesulfonic acid (PFOS)	8.59	2.0	ng/L	9.25	ND	92.9	70-130	10.7	30	
erfluorononanoic acid (PFNA)	10.1	2.0	ng/L	10.0	ND	101	70-130	2.10	30	
erfluorodecanoic acid (PFDA)	7.96	2.0	ng/L	10.0	ND	79.6	70-130	7.21	30	
-EtFOSAA	9.81	2.0	ng/L	10.0	ND	98.1	70-130	4.34	30	
erfluoroundecanoic acid (PFUnA)	7.29	2.0	ng/L	10.0	ND	72.9	70-130	4.57	30	
-MeFOSAA	9.08	2.0	ng/L	10.0	ND	90.8	70-130	12.8	30	
erfluorododecanoic acid (PFDoA)	7.73	2.0	ng/L	10.0	ND	77.3	70-130	10.7	30	
erfluorotridecanoic acid (PFTrDA)	8.27	2.0	ng/L	10.0	ND	82.7	70-130	6.43	30	
erfluorotetradecanoic acid (PFTA)	7.85	2.0	ng/L	10.0	ND	78.5	70-130	4.74	30	
exafluoropropylene oxide dimer acid IFPO-DA)	7.46	2.0	ng/L	10.0	ND	74.6	70-130	4.88	30	
Cl-PF3OUdS (F53B Major)	6.29	2.0	ng/L	9.40	ND	66.9 *	70-130	10.3	30	MS-0
Cl-PF3ONS (F53B Minor)	7.68	2.0	ng/L	9.30	ND	82.6	70-130	9.92	30	
8-dioxa-3H-perfluorononanoic acid ADONA)	8.53	2.0	ng/L	10.0	ND	85.3	70-130	3.59	30	
urrogate: 13C-PFHxA	36.9		ng/L	40.0		92.1	70-130			
urrogate: M3HFPO-DA	34.4		ng/L	40.0		86.0	70-130			
arrogate. Mistri i O Bri										
urrogate: 13C-PFDA	31.1		ng/L	40.0		77.8	70-130			



QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B255389 - EPA 300.0										
Blank (B255389-BLK1)				Prepared &	Analyzed: 03	/31/20				
Nitrate as N	ND	0.10	mg/L							
Nitrite as N	ND	0.100	mg/L							
LCS (B255389-BS1)				Prepared &	Analyzed: 03	/31/20				
Nitrate as N	1.0		mg/L	1.00		101	90-110			
Nitrite as N	0.980		mg/L	1.00		98.0	90-110			
LCS Dup (B255389-BSD1)				Prepared &	Analyzed: 03	/31/20				
Nitrate as N	1.0		mg/L	1.00		101	90-110	0.0297	20	
Nitrite as N	0.981		mg/L	1.00		98.1	90-110	0.102	20	
Matrix Spike (B255389-MS1)	Sour	ce: 20C1378-	01	Prepared &	Analyzed: 03	/31/20				
Nitrate as N	1.9		mg/L	1.00	1.0	86.2	80-120			
Nitrite as N	0.895		mg/L	1.00	0.00	89.5	80-120			
Matrix Spike Dup (B255389-MSD1)	Sour	ce: 20C1378-	01	Prepared & Analyzed: 03/31/20		/31/20				
Nitrate as N	2.0		mg/L	1.00	1.0	96.8	80-120	5.45	20	
Nitrite as N	1.01		mg/L	1.00	0.00	101	80-120	11.9	20	
Batch B255413 - SM 21-22 5210B										
Blank (B255413-BLK1)				Prepared &	Analyzed: 03	/31/20				
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B255413-BS1)				Prepared & A	Analyzed: 03	/31/20				
LC3 (D233413-D31)										



FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	$\label{thm:wide recovery limits established for difficult compound.}$

‡ Wide RPD limits established for difficult compound.

Data exceeded client recommended or regulatory level

ND Not Detected
RL Reporting Limit

DL Method Detection Limit
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.

MS-07 Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank

 $recovery. Possibility\ of\ sample\ matrix\ effects\ that\ lead\ to\ low\ bias\ for\ reported\ result\ or\ non-homogeneous\ sample$

aliquot cannot be eliminated.



CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 300.0 in Drinking Water	
Nitrate as N	MA
Nitrite as N	MA
EPA 537.1 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorohexanoic acid (PFHxA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorohexanesulfonic acid (PFHxS)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluoroheptanoic acid (PFHpA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,NY,NH,PA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,NY,NH,PA
Perfluorononanoic acid (PFNA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorodecanoic acid (PFDA)	NH-P,VT-DW,NJ,CT,ME,PA
N-EtFOSAA	NH-P,VT-DW,NJ,CT,ME,PA
Perfluoroundecanoic acid (PFUnA)	NH-P,VT-DW,NJ,CT,ME,PA
N-MeFOSAA	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorododecanoic acid (PFDoA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorotridecanoic acid (PFTrDA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorotetradecanoic acid (PFTA)	NH-P,VT-DW,NJ,CT,ME,PA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,VT-DW,NJ,CT,ME,PA
11Cl-PF3OUdS (F53B Major)	NH-P,VT-DW,NJ,CT,ME,PA
9Cl-PF3ONS (F53B Minor)	NH-P,VT-DW,NJ,CT,ME,PA

SM 21-22 5210B in Water

4,8-dioxa-3H-perfluorononanoic acid (ADONA)

Biochemical Oxygen Demand CT,MA,NH,NY,RI,ME,VA,NC

 $The \ CON-TEST \ Environmental \ Laboratory \ operates \ under \ the \ following \ certifications \ and \ accreditations:$

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

NH-P,VT-DW,NJ,CT,ME,PA

A.00.1378

http://www.contestlabs.com

Doc # 381 Rev 2_06262019

Glassware in freezer? Y / N Prepackaged Cooler? Y / N *Contest is not responsible for nissing samples from prepacked Glassware in the fridge? Matrix Codes:

GW = Ground Water

WW = Waste Water

DW = Drinking Water ² Preservation Codes: Total Number Of X = Sodium Hydroxide A = Air S = Soil SL = Sludge SOL = Solid O = Other (please S = Sulfuric Acid B = Sodium Bisulfate Thiosulfate O = Other (please M = Methanol N = Nitric Acid coolers Preservation Code BACTERIA PLASTIC VIALS GLASS ENCORE Page 1 of T = Sodium define) H=HCL presend possible sample concentration within the Conc H - High; M - Medium; L - Low; C - Ctean; U -MIM Please use the following codes to indicate Code column above: ANALYSIS REQUESTED CT REPLEA Egys 4 File Firmet, 5 day TAT, DFAS MCP Certification Form Required RCP Certification Form Required MA MCP Required CT RCP Required × 39 Spruce Street East Longmeadow, MA 01028 ENCORE CLP Like Data Prog Required:
Email To: al de bro WSK; O 10 UTC 170, COM BACTERIA Field Filtered Field Filtered Lab to Filter Lab to Filter GLASS PLASTIC N CHAIN OF CUSTOMY RECORD VIALS 0 0 0 0 Matrix Conc Code Code Format: LEA Equis 4 Por S pr. 10-Day Due Date: 9 36 3-Day 4-Day 202 COMP/GRAB Jan P PFAS 10-Day (std) 10 % Ending Date/Time Other: 1-Day 2-Day 7-Day 120/20 Beginning Date/Time Email: info@contestlabs.com ţ Date/Time; X $\tilde{\kappa}$ Client Sample ID / Description Phone: 413-525-2332 Fax: 413-525-6405 Date/Time: Date/Time: 3/20 Bundos LOSER レイのこの大量 1401673 NOTHWA **医** Stons + 10th 5 Project Number: 14 HG 00 John Con-Test Quote Name/Number: ASAL COS Ţ Relinquished by: (signature) linquished by: (signature Project Location: 145 olgna (ure) Con-Test Work Order# Invoice Recipient: Address: DD Project Manager: down Sampled By: eceived by: tetinguis Phone:

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

Non Soxhlet

Chromatogram AIHA-LAP, LLC

Other

School

Municipality

 Σ

Government Federal

Date/Time:

Project Entity

Refinquished by: (signature)

Received by: (signature)

Lab Comments:

Date/Time: Date/Time:

(signature)

Received

CHSA.

Brownfield

BOD not having MS/MSD run KF 4/1/2020

MWRA MBTA

PCB ONLY Soxhlet

define)

WELAG and AIMA-LAP, LLC Accredited

MA State DW Required

Page 15 of 17

IMPORTANT!

We are continuing to respond to the impact of COVID-19 around the world. <u>See our latest updates.</u> For COVID-19-related recipient closures, you can <u>redirect packages</u>, <u>Ask FedEx</u>, or contact the shipper.



770134572157



Delivered Tuesday 3/31/2020 at 9:25 am



DELIVERED

Signed for by: R.PIATRAS

GET STATUS UPDATES OBTAIN PROOF OF DELIVERY

FROM

PLAINVILLE, CT US

TO

EAST LONGMEADOW, MAIUS

Multiple-piece Shipment

2 Piece shipment

TRACKING NUMBER	SHIPPER CITY, STATE	SHIP DATE	STATUS	DELIVERY DATE	DESTINATION/RECIPIENT CITY, STATE
770134571025 (master)	WINDSOR LOCKS, CT	3/30/2020	Emilian de Constantina de Constantin	3/31/2020	EAST LONGMEADOW, MA
770134572157	WINDSOR LOCKS, CT	3/30/2020	Epiteriiste al Epiteriiste Epiteriiste	3/31/2020	EAST LONGMEADOW, MA

Shipment Facts

TRACKING	NUMBER
7701345721	57

FedEx Priority Overnight

MASTER TRACKING NUMBER 770134571025

WEIGHT 37 lbs / 16.78 kgs

DELIVERED TOShipping/Receiving

TOTAL PIECES

TOTAL SHIPMENT WEIGHT 37 lbs / 16.78 kgs

TERMS Shipper

SERVICE

SHIPPER REFERENCE 18HG001.001

PACKAGING Your Packaging SPECIAL HANDLING SECTION
Deliver Weekday

STANDARD TRANSIT(2)
3/31/2020 by 10.30 am

SHIP DATE

ACTUAL DELIVERY

https://www.fedex.com/apps/fedextrack/?action=track&trackingnumber=770134572157&cntry_code=us&locale=en_US

Page 16 of 17

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



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

•	MENT WIN DE DIOU			- 1				
Received By	MAP		Date	3 31	12v	Time	925	
How were the samples	In Cooler	-	No Cooler	•	On Ice	-	No Ice	
received?	Direct from Samp	lina :			- Ambient		Melted Ice	
	an out not not no	By Gun#	<u>)</u>		Actual Terr	p- 3,1		
Were samples within		1516				· · · · · · · · · · · · · · · · · · ·	7.1	
Temperature? 2-6°C		By Blank #			Actual Tem	<u> </u>	A .	
Was Custody S					s Tampered		<u> </u>	·
Was COC Reli			Control of the Contro	s Chain Ag	ree With Sa	mples?		
	leaking/loose caps	on any sam		<u> </u>				
Is COC in ink/ Legible?				nples recei		olding time?		
Did COC include all	Client	(Analysis	· · ·		er Name		
pertinent Information?		<u>T</u>	ID's		Collection	Dates/Times	5	,
Are Sample labels fille		<u> </u>						
Are there Lab to Filters	?				s notified?			į
Are there Rushes?					s notified?	1 (m) A		
Are there Short Holds?				Who was	s notified?	IMA	·	i
Is there enough Volume								
Is there Headspace wh				MS/MSD?			_	original control
Proper Media/Containe	1,550				samples red	quired?		
Were trip blanks receiv	***************************************	<u> </u>		On COC?		- D		41 - 41 - 42 - 44 - 43 - 44
Do all samples have the	17 17 (0) F.M. Par Marinetti		Acid .			Base		
Vials #	Containers:	+			#			#
Unp-	1 Liter Amb.		1 Liter		3		z Amb.	
HCL-	500 mL Amb.		500 mL		3		mb/Clear	
Meoh-	250 mL Amb.		250 mL		8		mb/Clear	
Bisulfate- DI-	Flashpoint		Col./Ba				nb/Clear	
Thiosulfate-	Other Glass SOC Kit		Other I			Frozen:	icore	
Sulfuric-	Perchlorate		Plastic Ziple			riozen.		
Odirario	reciliorate							
		a a	Unused I	Viedia	1			- 4
Vials #	Containers:	#	4 1 itan	Diselie	#	16.0	z Amb.	*
Ünp- HCL-	1 Liter Amb.		1 Liter 500 mL				nb/Clear	
Meoh-	500 mL Amb. 250 mL Amb.		250 mL				nb/Clear	
Bisulfate-	Col./Bacteria		Flash				nb/Clear	
DI-	Other Plastic		Other				core	
Thiosulfate-	SOC Kit		Plastic		**************************************	Frozen:	10010	······································
Sulfuric-	Perchlorate		Ziple					
Comments:			E.D.	JOIN		<u> </u>		



April 20, 2020

John Bondos Loureiro Engineering Associates 100 Northwest Drive Plainville, CT 06062

Project Location: 221 Oral School Rd

Client Job Number:

Project Number: 18HG001.001

Laboratory Work Order Number: 20D0454

Enclosed are results of analyses for samples received by the laboratory on April 10, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano Project Manager

Table of Contents

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Loureiro Engineering Associates

100 Northwest Drive

ATTN: John Bondos

REPORT DATE: 4/20/2020

Plainville, CT 06062

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 18HG001.001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20D0454

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

PROJECT LOCATION: 221 Oral School Rd

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1401680	20D0454-01	Drinking Water		EPA 537.1	
1401681	20D0454-02	Drinking Water		EPA 537.1	



CASE NARRATIVE SUMMARY

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

The results of analyses reported only relate to samples submitted to the Con-Test 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

Work Order: 20D0454



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

Sample Description:

86.0

89.5

Project Location: 221 Oral School Rd Date Received: 4/10/2020 Field Sample #: 1401680

Sample ID: 20D0454-01 Sa

13C-PFDA

d5-NEtFOSAA

Sampled: 4/9/2020 09:20

Sample Matrix: Drinking Water Semivolatile Organic Compounds by - LC/MS-MS									
Analyte	Results	RL	MA ORSG Un	its DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng	/L 1		EPA 537.1	4/13/20	4/15/20 12:33	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng	/L 1		EPA 537.1	4/13/20	4/15/20 12:33	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng	/L 1		EPA 537.1	4/13/20	4/15/20 12:33	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng	/L 1		EPA 537.1	4/13/20	4/15/20 12:33	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	ng	/L 1		EPA 537.1	4/13/20	4/15/20 12:33	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng	/L 1		EPA 537.1	4/13/20	4/15/20 12:33	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	ng	/L 1		EPA 537.1	4/13/20	4/15/20 12:33	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	ng	/L 1		EPA 537.1	4/13/20	4/15/20 12:33	BLM
N-EtFOSAA	ND	2.0	ng	/L 1		EPA 537.1	4/13/20	4/15/20 12:33	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng	/L 1		EPA 537.1	4/13/20	4/15/20 12:33	BLM
N-MeFOSAA	ND	2.0	ng	/L 1		EPA 537.1	4/13/20	4/15/20 12:33	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng	/L 1		EPA 537.1	4/13/20	4/15/20 12:33	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng	/L 1		EPA 537.1	4/13/20	4/15/20 12:33	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng	/L 1		EPA 537.1	4/13/20	4/15/20 12:33	BLM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	ng	/L 1		EPA 537.1	4/13/20	4/15/20 12:33	BLM
11Cl-PF3OUdS (F53B Major)	ND	2.0	ng	/L 1		EPA 537.1	4/13/20	4/15/20 12:33	BLM
9Cl-PF3ONS (F53B Minor)	ND	2.0	ng	/L 1		EPA 537.1	4/13/20	4/15/20 12:33	BLM
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0	ng	/L 1		EPA 537.1	4/13/20	4/15/20 12:33	BLM
Surrogates		% Recovery	Recovery Lim	its	Flag/Qual				
13C-PFHxA		85.7	70-130					4/15/20 12:33	
M3HFPO-DA		83.7	70-130					4/15/20 12:33	

70-130

70-130

4/15/20 12:33

4/15/20 12:33

Work Order: 20D0454



Project Location: 221 Oral School Rd

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

Sample Description:

Sample Description.

Sampled: 4/9/2020 09:20

Field Sample #: 1401681
Sample ID: 20D0454-02
Sample Matrix: Drinking Water

Date Received: 4/10/2020

Sample Matrix: Drinking Water		6 .	1.47.0		11 10	Me Me				
		Semivo	latile Organi	c Compoun	ds by - LC/	MS-MS				
]	MCL/SMCL					Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 12:55	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 12:55	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 12:55	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 12:55	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 12:55	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 12:55	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 12:55	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 12:55	BLM
N-EtFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 12:55	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 12:55	BLM
N-MeFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 12:55	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 12:55	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 12:55	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 12:55	BLM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 12:55	BLM
11Cl-PF3OUdS (F53B Major)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 12:55	BLM
9Cl-PF3ONS (F53B Minor)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 12:55	BLM
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 12:55	BLM
Surrogates		% Recovery	Recovery	Limits		Flag/Qual				
13C-PFHxA		103	70-1	30					4/15/20 12:55	
M3HFPO-DA		99.0	70-1	30					4/15/20 12:55	
13C-PFDA		103	70-1	30					4/15/20 12:55	
d5-NEtFOSAA		116	70-1	30					4/15/20 12:55	



Sample Extraction Data

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20D0454-01 [1401680]	B256145	250	1.00	04/13/20
20D0454-02 [1401681]	B256145	250	1.00	04/13/20



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

QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B256145 - EPA 537.1										
Blank (B256145-BLK1)				Prepared: 04	1/13/20 Anal	yzed: 04/15/2	20			
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
N-EtFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
N-MeFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Hexafluoropropylene oxide dimer acid	ND	2.0	ng/L							
HFPO-DA)	110		_							
1Cl-PF3OUdS (F53B Major)	ND	2.0	ng/L							
PCI-PF3ONS (F53B Minor)	ND	2.0	ng/L							
4,8-dioxa-3H-perfluorononanoic acid ADONA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	36.3		ng/L	40.0		90.8	70-130			
Surrogate: M3HFPO-DA	35.5		ng/L	40.0		88.9	70-130			
Surrogate: 13C-PFDA	36.8		ng/L	40.0		91.9	70-130			
Surrogate: d5-NEtFOSAA	173		ng/L	160		108	70-130			
LCS (B256145-BS1)				Prepared: 04	1/13/20 Anal	yzed: 04/15/2	20			
Perfluorobutanesulfonic acid (PFBS)	7.80	2.0	ng/L	8.85		88.2	70-130			
Perfluorohexanoic acid (PFHxA)	8.65	2.0	ng/L	10.0		86.5	70-130			
Perfluorohexanesulfonic acid (PFHxS)	8.45	2.0	ng/L	9.10		92.8	70-130			
Perfluoroheptanoic acid (PFHpA)	9.09	2.0	ng/L	10.0		90.9	70-130			
Perfluorooctanoic acid (PFOA)	9.28	2.0	ng/L	10.0		92.8	70-130			
Perfluorooctanesulfonic acid (PFOS)	8.20	2.0	ng/L	9.25		88.6	70-130			
Perfluorononanoic acid (PFNA)	9.35	2.0	ng/L	10.0		93.5	70-130			
Perfluorodecanoic acid (PFDA)	9.44	2.0	ng/L	10.0		94.4	70-130			
N-EtFOSAA	12.4	2.0	ng/L	10.0		124	70-130			
Perfluoroundecanoic acid (PFUnA)	9.34	2.0	ng/L	10.0		93.4	70-130			
N-MeFOSAA	10.7	2.0	ng/L	10.0		107	70-130			
Perfluorododecanoic acid (PFDoA)	9.46	2.0	ng/L	10.0		94.6	70-130			
Perfluorotridecanoic acid (PFTrDA)	9.36	2.0	ng/L	10.0		93.6	70-130			
Perfluorotetradecanoic acid (PFTA)	8.67	2.0	ng/L	10.0		86.7	70-130			
Hexafluoropropylene oxide dimer acid HFPO-DA)	7.62	2.0	ng/L	10.0		76.2	70-130			
1Cl-PF3OUdS (F53B Major)	6.87	2.0	ng/L	9.40		73.1	70-130			
OCI-PF3ONS (F53B Minor)	8.38	2.0	ng/L	9.30		90.1	70-130			
1,8-dioxa-3H-perfluorononanoic acid ADONA)	7.82	2.0	ng/L	10.0		78.2	70-130			
Surrogate: 13C-PFHxA	31.4		ng/L	40.0		78.4	70-130			
Surrogate: M3HFPO-DA	30.4		ng/L ng/L	40.0		76.0	70-130			
Surrogate: 13C-PFDA	32.8		ng/L ng/L	40.0		82.1	70-130			
Surrogate: d5-NEtFOSAA	148		ng/L ng/L	160		92.6	70-130			



FLAG/QUALIFIER SUMMARY

† 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

DL Method Detection Limit

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.



CERTIFICATIONS

Certified Analyses included in this Report

4,8-dioxa-3H-perfluorononanoic acid (ADONA)

Analyte Certifications

EPA 537.1 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorohexanoic acid (PFHxA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorohexanesulfonic acid (PFHxS)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluoroheptanoic acid (PFHpA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,NY,NH,PA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,NY,NH,PA
Perfluorononanoic acid (PFNA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorodecanoic acid (PFDA)	NH-P,VT-DW,NJ,CT,ME,PA
N-EtFOSAA	NH-P,VT-DW,NJ,CT,ME,PA
Perfluoroundecanoic acid (PFUnA)	NH-P,VT-DW,NJ,CT,ME,PA
N-MeFOSAA	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorododecanoic acid (PFDoA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorotridecanoic acid (PFTrDA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorotetradecanoic acid (PFTA)	NH-P,VT-DW,NJ,CT,ME,PA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,VT-DW,NJ,CT,ME,PA
11Cl-PF3OUdS (F53B Major)	NH-P,VT-DW,NJ,CT,ME,PA
9Cl-PF3ONS (F53B Minor)	NH-P,VT-DW,NJ,CT,ME,PA

The CON-TEST 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	06/30/2020
CT	Connecticut Department of Publile Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

NH-P,VT-DW,NJ,CT,ME,PA

Table of Contents missing samples from prepacked Glassware in freezer? Y / N Prepackaged Cooler? Y / N Chain of Custody is a legal document that must be complete and accurate and is used to determine wha analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Cor Test values your partnership on each project and will try to assist with missing information, but will not i "Contest is not responsible for Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Glassware in the fridge? S = Sulfuric Acid B = Sodium Bisulfate X = Sodium Hydroxide WW = Waste Water Preservation Codes: DW = Drinking Water Total Number Of: S = Studge
SL = Studge
SOL = Solid
O = Other (please define) Thiosulfate O = Other (please Non Soxhlet PCB ONLY H = HCL M = Methanol N = Nitric Acid Soxhlet coolers ² Preservation Code Page tof BACTERIA T = Sodium VIALS_ GLASS_ PLASTIC ENCORE define) possible sample concentration within the Conc Code column above: H - High; M - Medium; L - Low; C - Clean; U -Please use the following codes to indicate Chromatogram

AIHA-LAP, LLC held accountable. ANALYSIS REQUESTED Other Doc # 381 Rev 2_06262019 (005) N K 80125 22-12 MA MCP Required WRTA CT RCP Required MA State DW Required ACP Certification form Requir RCP Certification Form Regul 1285 × 39 Spruce Street East Longmeadow, MA 01028 ENCORE DFAS Preserved with Trizma BACTERIA EXCEL chophosphate Sam Field Filtered Field Filtered ia bondos@lourciro. com Lab to Filter Lab to Filter PLASTIC School 7 MWRA MBTA I GLASS CHAIN OF CUSTODY RECORD VIALS 0 0 00 LEA Equis 4 File EDD Data Delivery Canc Code X http://www.contestlabs.com Municipality Brownfield Matrix Code Due Date: # GISA Transcent Tin 3 2 10-Day 213 3-Day 4-Day COMPTGRAB CLP Like Data Pkg Required: Grab Gas PFAS 10-Day (std) Government Date/Time Email To: Ending 02601/4/7 Federal -ax To #: 026 7/6/ ormat: Other: Client Comments: -Day 2-Day Ž, -Day Project Entity Beginning Date/Time Walte Contract 860 747 6181 DECD Drinking Water Date/Time: Y-10.2020 Email: info@contestlabs.com Client Sample ID / Description Phone: 413-525-2332 DO WORTHWEST Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Fax: 413-525-6405 Oral School Lescho John Bondas 1401680 40168 932 Received by: (signature) 18HG001 Stansticul 2000454 Con-Test Quote Name/Number: スグ COD-LEST elinquished by: (signature) Relinquished by: (signature) Relinquished by: (signature) elinquished by: (signature やすや (eceived by: (signature) Received by: (signature) Received by: (signature Work Order# Con-Test invoice Recipient: Project Location: Project Manager: Project Number: Comments: replace veloces ampled By: LAC Address; Page 11 of 13

IMPORTANT!

We are continuing to respond to the impact of COVID-19 around the world. <u>See our latest updates.</u> For COVID-19-related recipient closures, you can <u>redirect packages</u>, <u>Ask FedEx</u>, or contact the shipper.







Delivered Friday 4/10/2020 at 9:32 am



DELIVERED

Signed for by: R.PIETRAIS

GET STATUS UPDATES OBTAIN PROOF OF DELIVERY

	FROM	4-		то	P.
	PLAINVILLE CT US	COMMISSION OF A SECURITY SECURITY OF A SECUR	de statue a Lancilla Markementon, e 200 Marcinto, activo en 100 Marcinto de 100 Marcinto en 10	EAST-LONGMEAD	OW MAUS
Multiple-pied	ce Shipment	2 Pie	ce shipment	The state of the s	Adjunction of the Conference o
TRACKING NUMBER	SHIPPER CITY, STATE	SHIP DATE	STATUS	DELIVERY DATE	DESTINATION/RECIPIENT CITY, STATE
770208394883 (master)	WINDSOR LOCKS, CT	4/09/2020	Charles Country to the Country to th	4/10/2020	
770208394894	WINDSOR LOCKS, CT	4/09/2020	Canadian Contract Con		EAST LONGMEADOW, MA

Shipment Facts

TRACKING NUMBER 770208394894	SERVICE FedEx Priority Overnight	MASTER TRACKING NUMBER 770208394883
WEIGHT 25 lbs / 11.34 kgs	DELIVERED TO Shipping/Receiving	TOTAL PIECES
TOTAL SHIPMENT WEIGHT 25 lbs / 11.34 kgs	TERMS Shipper	SHIPPER REFERENCE 18HG001.001
PACKAGING Your Packaging	SPECIAL HANDLING SECTION Deliver Weekday	STANDARD TRANSIT (?) 4/10/2020 by 10:30 am

SHIP DATE

ACTUAL DELIVERY

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



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 Lourerro	······································		***************************************					
Received By	UR.		Date	4-10-200	<u>20</u>	Time	932	
How were the samples	In Cooler	T	No Cooler		On Ice	ī	No Ice	
received?	Direct from Samp	ling			Ambient		Melted Ice	
Were samples within		By Gun#	2		Actual Temp	5.4, 2.6	- -	
Temperature? 2-6°C	T	By Blank #			Actual Temp			
Was Custody Se		T Dy Dial in in			s Tampered v		F	
Was COC Relin	•	<u> </u>			ree With Sam			
	eaking/loose caps			F	cc with can	- ipico		
Is COC in ink/ Legible?		on any camp			ved within ho	lding time?	1	
Did COC include all	Client	7	Analysis	-	Sample			
pertinent Information?	_	7	ID's			Dates/Times	7	
Are Sample labels filled	-	T		·····		_		
Are there Lab to Filters?		F		Who was	s notified?			
Are there Rushes?	· ·	ίΞ		Who was	notified?			
Are there Short Holds?	ma.	F		Who was	notified?			
ls there enough Volume	i? \(\sqrt{1}\)	2 * F			-			
Is there Headspace whe	re applicable?	NA	ليو د د د د	MS/MSD?	F			
Proper Media/Container	s Used?	Service Services	A CONTRACTOR OF THE CONTRACTOR	ls splitting	samples requ	uired?	F	mark 1
Were trip blanks receive	∌d?	F	. Commence of the	On COC?	Second Form		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Do all samples have the	proper pH?	NA	Acid	, contraction to the second		Base _		
Vals 1	Canalnas				4			ŧ
Unp-	1 Liter Amb.		1 Liter F			16 oz /	Amb.	
HCL-	500 mL Amb.		500 mL	Plastic		8oz Amb	o/Clear	
Meoh-	250 mL Amb.		250 mL		3	4oz Amb		
Bisulfate-	Flashpoint		Col./Ba	cteria		2oz Amb)/Clear	
DI	Other Glass		Other F	Plastic		Enco	ore	
Thiosulfate-	SOC Kit		Plastic	: Bag	F	Frozen:		
Sulfuric-	Perchlorate		Ziplo	ock				Ti onuse univilla Albertika Armeit 22 denses e
			Unused N	ledia				
Vials 1								
Jnp-	1 Liter Amb.		1 Liter F	Plastic		16 oz /	Amb.	
HCL-	500 mL Amb.		500 mL	Plastic		8oz Amb)/Clear	
Meoh-	250 mL Amb.		250 mL	Plastic		4oz Amb		
Bisulfate-	Col./Bacteria		Flashp	point		2oz Amb)/Clear	
DI-	Other Plastic		Other (······································		Enco	ore	
Thiosulfate-	SOC Kit		Plastic	Bag	F	Frozen:		
Sulfuric-	Perchlorate		Ziplo	ock				
Comments:								
		Limitei	g returne	e for	surple	1401681		

Page 13 of 13



April 16, 2020

John Bondos Loureiro Engineering Associates 100 Northwest Drive Plainville, CT 06062

Project Location: 221 Oral School Rd

Client Job Number:

Project Number: 18HG001.001

Laboratory Work Order Number: 20D0455

Enclosed are results of analyses for samples received by the laboratory on April 10, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano Project Manager

Table of Contents

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Loureiro Engineering Associates

REPORT DATE: 4/16/2020

100 Northwest Drive Plainville, CT 06062

ATTN: John Bondos

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 18HG001.001

ANALYTICAL SUMMARY

WORK ORDER NUMBER:

20D0455

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

PROJECT LOCATION: 221 Oral School Rd

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1401680	20D0455-01	Drinking Water		EPA 300.0	
1401680	20D0455-02	Drinking Water		SM 21-22 5210B	



CASE NARRATIVE SUMMARY

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

SM 21-22 5210B

Qualifications:

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side. Analyte & Samples(s) Qualified:

Biochemical Oxygen Demand

B256077-BS1

The results of analyses reported only relate to samples submitted to the Con-Test 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.

Lua Watslengton Technical Representative

Work Order: 20D0455



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

Sample Description:

Date Received: 4/10/2020 Field Sample #: 1401680

Project Location: 221 Oral School Rd

Sampled: 4/9/2020 09:20

Sample ID: 20D0455-01
Sample Matrix: Drinking Water

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

			MCL/SMCL					Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Nitrate as N	0.20	0.10	10	mg/L	1		EPA 300.0	4/10/20	4/10/20 21:54	KMV
Nitrite as N	ND	0.100	1	mg/L	1		EPA 300.0	4/10/20	4/10/20 21:54	KMV

Work Order: 20D0455



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

Sample Description:

Date Received: 4/10/2020 Field Sample #: 1401680

Project Location: 221 Oral School Rd

Sampled: 4/9/2020 09:20

Sample ID: 20D0455-02 Sample Matrix: Drinking Water

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

							Date	Date/Time	
Analyte	Results	RL	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Biochemical Oxygen Demand	ND	4.0	mg/L	1		SM 21-22 5210B	4/10/20	4/10/20 19:30	DJM

04/10/20



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

Sample Extraction Data

Prep Method: EPA 300.0-EPA 300.0

20D0455-02 [1401680]

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20D0455-01 [1401680]	B256083	10.0	10.0	04/10/20
SM 21-22 5210B				
Lab Number [Field ID]	Batch	Initial [mL]		Date

150

B256077



QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B256077 - SM 21-22 5210B										
Blank (B256077-BLK1)				Prepared &	Analyzed: 04	/10/20				
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B256077-BS1)				Prepared &	Analyzed: 04	/10/20				
Biochemical Oxygen Demand	130	2.0	mg/L	198		66.9 *	85-115			L-04
Batch B256083 - EPA 300.0										
Blank (B256083-BLK1)				Prepared &	Analyzed: 04	/10/20				
Nitrate as N	ND	0.10	mg/L							
Nitrite as N	ND	0.100	mg/L							
LCS (B256083-BS1)				Prepared &	Analyzed: 04	/10/20				
Nitrate as N	1.0		mg/L	1.00		103	90-110			
Nitrite as N	1.02		mg/L	1.00		102	90-110			
LCS Dup (B256083-BSD1)				Prepared &	Analyzed: 04	/10/20				
Nitrate as N	1.0		mg/L	1.00		103	90-110	0.234	20	
Nitrite as N	1.01		mg/L	1.00		101	90-110	0.384	20	



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

DL Method Detection Limit

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.

L-04 Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits.

Reported value for this compound is likely to be biased on the low side.



CERTIFICATIONS

Certified Analyses included in this Report

Analyte Certifications

EPA 300.0 in Drinking Water

Nitrate as N MA
Nitrite as N MA

SM 21-22 5210B in Water

Biochemical Oxygen Demand CT,MA,NH,NY,RI,ME,VA,NC

The CON-TEST 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	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

Glassware in freezer? Y / N Prepackaged Cooler? Y / N nissing samples from prepacked *Contest is not responsible for Test values your partnership on each project and will try to assist with missing information, but will not b Chain of Custody is a legal document that must be complete and accurate and is used to determine whai analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con Glassware in the fridge? Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The 2 Preservation Codes:
1 = Iced
H = HCL
A = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate | Matrix Codes: GW = Ground Water WW = Waste Water DW = Drinking Water Total Number Of X = Sodium Hydroxide T = Sodium SL = Sludge SOL = Solid O = Other (please O = Other (please define) Non Soxhlet PCB ONLY Z/ coolers Soxhlet ² Preservation Code Page of 1 BACTERIA VIALS GLASS PLASTIC ENCORE **Thiosulfate** S = Soil define) A = Air possible sample concentration within the Conc H - High; M - Medium; L - Low; C - Clean; U -Please use the following codes to indicate HELAC and Alba-LAP, LLC Accreeding Chromatogram

AIHA-LAP, L.C. Code column above: ANALYSIS REQUESTED held accountable. Doc # 381 Rev 2_06262019 180125 22-12 008 MCF Certification Form Required CT RCP Required MA MCP Require MA State DW Required 1257 RCP Certification Form Requ 54 × 39 Spruce Street East Longmeadow, MA 01028 ENCORE DFAS Preserved with Trizma BACTERIA EXCEL Field Filtered Field Filtered Lab to Filter Lab to Filter ia bondos@lourciro. com GLASS PLASTIC Z School MWRA MBTA I 3 CHAIN OF CUSTODY RECORD VIALS 0 0 0 0 LEA Equis 4 Dic EDD Conc Code X http://www.contestlabs.com Municipatity Brownfield Due Date: 'Matrix Code 10-Day # CISM 3 3-Day 3 4-Day CLP Like Data Pkg Required: COMP/GRAB GB2 Gab PFAS 10-Day (std) Government Date/Time Email To: Ending ax To #: 1/4/20 9 20 Format: 026/21/b/h Other: Federal 2-Day 7-Day -Day Citent Comments: City Project Entity Beginning Date/Time DECD Drinking Water Email: info@contestlabs.com 4-10-2020 Client Sample ID / Description Phone: 413-525-2332 DO WORTHWEST Fax: 413-525-6405 Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: 221 Oral School Lours John Bondbs 1401680 460 747 40168 6133 18HG001 Stanstick 2000455 Con-Test Quote Name/Number: (eceived by (signature) TOJ-LOS Relinquished by: (signature) (elinquished by: (signature) elinquished by: (signature) telinquished by: (signature) サイナ (eceived by: (signature) (eceived by: (signature) Received by: (signature) Work Order# Con-Test Project Location; Invoice Recipient: Project Manager; Project Number: Lab Comments: Sampled By: Address: Phone: Page 11 of 13

IMPORTANT!

We are continuing to respond to the impact of COVID-19 around the world. See our latest updates. For COVID-19-related recipient closures, you can redirect packages, Ask FedEx, or contact the shipper.







Delivered Friday 4/10/2020 at 9:32 am



DELIVERED

Signed for by: R.PIETRAIS

GET STATUS UPDATES OBTAIN PROOF OF DELIVERY

3	FROM			ТО	* *
American Maria Mar	PLAINVILLE CITUS	A property of the second secon	TO A STATE OF THE	<u>EAS</u> T LONGMEADOV	V, MA US.,
	hipment	and the state to be a second and a second an	A CONTRACTOR OF THE CONTRACTOR	Contraction of the Contraction o	
		2 Piece	shipment	or or the second of the second	
TRACKING SH.	IPPER CITY, STATE	SHIP DATE	STATUS	DELIVERY DATE	DESTINATION/RECIPIENT CITY, STATE
770208394883 WI (master) WI	NDSOR LOCKS, CT	4/09/2020	Compressed in constant of the	4/10/2020	EAST LONGMEADOW, MA
770208394894 WI	NDSOR LOCKS, CT	4/09/2020	Continued Contin	4/10/2020	EAST LONGMEADOW, MA

Shipment Facts

TRACKING NUMBER 770208394894	SERVICE FedEx Priority Overnight	MASTER TRACKING NUMBER 770208394883
WEIGHT 25 lbs / 11.34 kgs	DELIVERED TO Shipping/Receiving	TOTAL PIECES
TOTAL SHIPMENT WEIGHT 25 lbs / 11.34 kgs	TERMS Shipper	SHIPPER REFERENCE 18HG001.001
PACKAGING Your Packaging	SPECIAL HANDLING SECTION Deliver Weekday	STANDARD TRANSIT (2) 4/10/2020 by 10:30 am

SHIP DATE

ACTUAL DELIVERY

Page 12 of 13

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



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

Received By							
*			Date	4-10-202	0	Time	932
How were the sam	ples In Cooler	_ 1	No Cooler		On Ice	T	No Ice
received?	Direct from Sam	pling			Ambien		-
More complex with		By Gun #	2	,			Melted Ice
Were samples wit Temperature? 2-6						mp-5.4, 2.1	<u>6</u>
		By Blank #			Actual Te		
	dy Seal Intact?		We	re Samples	Tampere	ed with?	F
vvas COC i	Relinquished?		Does	Chain Agre	e With S	amples?	T
Are there prok	ken/leaking/loose caps	on any sam		F			
Is COC in ink/ Legil	****		Were sam	iples receive	ed within	holding time?	ī
Did COC include			Analysis _	T	Sam	oler Name	
pertinent Information	•		iD's	工		n Dates/Times	7
Are Sample labels	filled out and legible?	1					
Are there Lab to Filt	ers?			Who was r	notified?		
Are there Rushes?		T		Who was r	notified?	Lucy	
Are there Short Hold		T		Who was r		CUCH	
s there enough Volu		τ				**************************************	
s there Headspace		NA	h	MS/MSD?	F		r sa de
Proper Media/Conta		The Contract District of Contract Vision is recovered to the con-	Andrew Commencer of the Comme	s splitting sa	mples re	quired?	
Were trip blanks rec	eived?					- A cita	The second secon
Do all samples have	the proper pH?	NA	Acid		Contract to the second Contract of	Base	C. 2. 3 - 1 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2
/lefo A	Containers	4 [-	
Jnp-	1 Liter Amb.		1 Liter P	lastic	1	16 oz /	Amb.
ICL-	500 mL Amb.		500 mL F		1	8oz Amb	
/leoh-	250 mL Amb.		250 mL F			4oz Amb	······································
Bisulfate-	Flashpoint		Col./Bac			2oz Amb	
) -	Other Glass		Other Pi			Enco	
hiosulfate-	SOC Kit		Plastic		·····	Frozen:	ue I
ulfuric-	Perchlorate		Ziploc			102011.	
			Unused Ne				
	Containers. 1		Camera, and	una.			
Inp-	1 Liter Amb.		1 Liter PI	actic		40 *	
CL-	500 mL Amb.		500 mL P			16 oz A	
	250 mL Amb.		250 mL P			8oz Amb/	
						4oz Amb/	
leoh-		ĺ	Flacuna			ノハフ ひのわん	u ioor I
leoh- isulfate- I-	Col./Bacteria		Flashpo Other Gi			2oz Amb/	
leoh- isulfate- I- hiosulfate-			Other Gi	ass		Enco	
leoh- isulfate- I- hiosulfate- ulfuric-	Col./Bacteria Other Plastic			ass Bag			

April 7, 2020

John Bondos Loureiro Engineering Associates 100 Northwest Drive Plainville, CT 06062

Project Location: 340 Cow Hill Rd, Groton, CT

Client Job Number:

Project Number: 18HG001.001

Laboratory Work Order Number: 20C1383

Enclosed are results of analyses for samples received by the laboratory on March 31, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano Project Manager

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Loureiro Engineering Associates

100 Northwest Drive Plainville, CT 06062

ATTN: John Bondos

REPORT DATE: 4/7/2020

20C1383

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 18HG001.001

ANALYTICAL SUMMARY

WORK ORDER NUMBER:

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

PROJECT LOCATION: 340 Cow Hill Rd, Groton, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1401678	20C1383-01	Drinking Water		EPA 300.0	
				EPA 537.1	
1401679	20C1383-02	Drinking Water		EPA 537.1	
1401678	20C1383-03	Drinking Water		SM 21-22 5210B	



CASE NARRATIVE SUMMARY

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

 $The \ results \ of \ analyses \ reported \ only \ relate \ to \ samples \ submitted \ to \ the \ Con-Test \ Analytical \ Laboratory \ for \ testing.$

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



Project Location: 340 Cow Hill Rd, Groton, CT Sample Description: Work Order: 20C1383

Date Received: 3/31/2020 Field Sample #: 1401678

Sampled: 3/30/2020 12:45

99.3

Sample ID: 20C1383-01
Sample Matrix: Drinking Wate

d5-NEtFOSAA

Sample Matrix: Drinking Water									
		Semivol	latile Organic Co	ompounds by -	LC/MS-MS				
			MCL/SMCL				Date	Date/Time	
Analyte	Results	RL	MA ORSG U	nits D	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	r	ig/L 1		EPA 537.1	4/1/20	4/2/20 22:04	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	r	ıg/L 1		EPA 537.1	4/1/20	4/2/20 22:04	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	r	ıg/L 1		EPA 537.1	4/1/20	4/2/20 22:04	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	r	ıg/L 1		EPA 537.1	4/1/20	4/2/20 22:04	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	r	ıg/L 1		EPA 537.1	4/1/20	4/2/20 22:04	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	r	g/L 1		EPA 537.1	4/1/20	4/2/20 22:04	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	r	g/L 1		EPA 537.1	4/1/20	4/2/20 22:04	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	r	g/L 1		EPA 537.1	4/1/20	4/2/20 22:04	BLM
N-EtFOSAA	ND	2.0	r	ıg/L 1		EPA 537.1	4/1/20	4/2/20 22:04	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	r	ıg/L 1		EPA 537.1	4/1/20	4/2/20 22:04	BLM
N-MeFOSAA	ND	2.0	r	g/L 1		EPA 537.1	4/1/20	4/2/20 22:04	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	r	g/L 1		EPA 537.1	4/1/20	4/2/20 22:04	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	r	ıg/L 1		EPA 537.1	4/1/20	4/2/20 22:04	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	r	ıg/L 1		EPA 537.1	4/1/20	4/2/20 22:04	BLM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	r	ıg/L 1		EPA 537.1	4/1/20	4/2/20 22:04	BLM
11Cl-PF3OUdS (F53B Major)	ND	2.0	r	ıg/L 1		EPA 537.1	4/1/20	4/2/20 22:04	BLM
9Cl-PF3ONS (F53B Minor)	ND	2.0	r	ıg/L 1		EPA 537.1	4/1/20	4/2/20 22:04	BLM
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0	r	ig/L 1		EPA 537.1	4/1/20	4/2/20 22:04	BLM
Surrogates		% Recovery	Recovery Lin	nits	Flag/Qual				
13C-PFHxA		92.4	70-130					4/2/20 22:04	
M3HFPO-DA		86.9	70-130					4/2/20 22:04	
13C-PFDA		88.0	70-130					4/2/20 22:04	

70-130

4/2/20 22:04



Project Location: 340 Cow Hill Rd, Groton, CT Sample Description: Work Order: 20C1383

Date Received: 3/31/2020 Field Sample #: 1401678

Sampled: 3/30/2020 12:45

Sample ID: 20C1383-01
Sample Matrix: Drinking Water

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

			MCL/SMCL					Date	Date/Time	
Ana	lyte Results	RL	MA ORSG	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Nitrate as N	2.1	0.10	10	mg/L	1		EPA 300.0	3/31/20	3/31/20 17:54	IS
Nitrite as N	ND	0.100	1	mg/L	1		EPA 300.0	3/31/20	3/31/20 17:54	IS



Project Location: 340 Cow Hill Rd, Groton, CT Sample Description: Work Order: 20C1383

Date Received: 3/31/2020 Field Sample #: 1401679

Sampled: 3/30/2020 12:45

Sample ID: 20C1383-02
Sample Matrix: Drinking Wate

Sample Matrix: Drinking Water									
		Semivol	latile Organic Com	oounds by - LC/	MS-MS				
			MCL/SMCL				Date	Date/Time	
Analyte	Results	RL	MA ORSG Units	DF .	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/I	. 1		EPA 537.1	4/1/20	4/2/20 22:26	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/I	. 1		EPA 537.1	4/1/20	4/2/20 22:26	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/I	. 1		EPA 537.1	4/1/20	4/2/20 22:26	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/I	, 1		EPA 537.1	4/1/20	4/2/20 22:26	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/I	. 1		EPA 537.1	4/1/20	4/2/20 22:26	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/I	. 1		EPA 537.1	4/1/20	4/2/20 22:26	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	ng/I	. 1		EPA 537.1	4/1/20	4/2/20 22:26	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/I	. 1		EPA 537.1	4/1/20	4/2/20 22:26	BLM
N-EtFOSAA	ND	2.0	ng/I	. 1		EPA 537.1	4/1/20	4/2/20 22:26	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/I	. 1		EPA 537.1	4/1/20	4/2/20 22:26	BLM
N-MeFOSAA	ND	2.0	ng/I	. 1		EPA 537.1	4/1/20	4/2/20 22:26	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/I	. 1		EPA 537.1	4/1/20	4/2/20 22:26	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/I	. 1		EPA 537.1	4/1/20	4/2/20 22:26	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/I	. 1		EPA 537.1	4/1/20	4/2/20 22:26	BLM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	ng/I	. 1		EPA 537.1	4/1/20	4/2/20 22:26	BLM
11Cl-PF3OUdS (F53B Major)	ND	2.0	ng/I	. 1		EPA 537.1	4/1/20	4/2/20 22:26	BLM
9Cl-PF3ONS (F53B Minor)	ND	2.0	ng/I	. 1		EPA 537.1	4/1/20	4/2/20 22:26	BLM
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0	ng/I	, 1		EPA 537.1	4/1/20	4/2/20 22:26	BLM
Surrogates		% Recovery	Recovery Limits	3	Flag/Qual				
13C-PFHxA		91.3	70-130					4/2/20 22:26	
M3HFPO-DA		85.5	70-130					4/2/20 22:26	
13C-PFDA		87.5	70-130					4/2/20 22:26	
d5-NEtFOSAA		97.7	70-130					4/2/20 22:26	



Project Location: 340 Cow Hill Rd, Groton, CT Sample Description: Work Order: 20C1383

Date Received: 3/31/2020 Field Sample #: 1401678

Sampled: 3/30/2020 12:45

Sample ID: 20C1383-03
Sample Matrix: Drinking Water

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

							Date	Date/Time	
Analyte	Results	RL	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Biochemical Oxygen Demand	ND	4.0	mg/L	1		SM 21-22 5210B	3/31/20	3/31/20 18:55	EC



Sample Extraction Data

Prep Method: EPA 300.0-EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20C1383-01 [1401678]	B255389	10.0	10.0	03/31/20

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20C1383-01 [1401678]	B255419	250	1.00	04/01/20
20C1383-02 [1401679]	B255419	250	1.00	04/01/20

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
20C1383-03 [1401678]	B255413	150	03/31/20



QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B255419 - EPA 537.1										
Blank (B255419-BLK1)				Prepared: 04	1/01/20 Anal	yzed: 04/02/2	20			
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
erfluorononanoic acid (PFNA)	ND	2.0	ng/L							
erfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
N-EtFOSAA	ND	2.0	ng/L							
erfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
I-MeFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Hexafluoropropylene oxide dimer acid HFPO-DA)	ND	2.0	ng/L							
1Cl-PF3OUdS (F53B Major)	ND	2.0	ng/L							
Cl-PF3ONS (F53B Minor)	ND	2.0	ng/L							
,8-dioxa-3H-perfluorononanoic acid ADONA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	37.9		ng/L	40.0		94.8	70-130			
Surrogate: M3HFPO-DA	35.8		ng/L	40.0		89.4	70-130			
Surrogate: 13C-PFDA	37.7		ng/L	40.0		94.3	70-130			
surrogate: d5-NEtFOSAA	170		ng/L	160		106	70-130			
LCS (B255419-BS1)				Prepared: 04	1/01/20 Anal	yzed: 04/02/2	20			
Perfluorobutanesulfonic acid (PFBS)	8.41	2.0	ng/L	8.85		95.1	70-130			
Perfluorohexanoic acid (PFHxA)	10.2	2.0	ng/L	10.0		102	70-130			
erfluorohexanesulfonic acid (PFHxS)	10.1	2.0	ng/L	9.10		111	70-130			
erfluoroheptanoic acid (PFHpA)	9.41	2.0	ng/L	10.0		94.1	70-130			
erfluorooctanoic acid (PFOA)	10.0	2.0	ng/L	10.0		100	70-130			
erfluorooctanesulfonic acid (PFOS)	9.62	2.0	ng/L	9.25		104	70-130			
erfluorononanoic acid (PFNA)	11.3	2.0	ng/L	10.0		113	70-130			
Perfluorodecanoic acid (PFDA)	10.3	2.0	ng/L	10.0		103	70-130			
N-EtFOSAA	12.1	2.0	ng/L	10.0		121	70-130			
erfluoroundecanoic acid (PFUnA)	10.1	2.0	ng/L	10.0		101	70-130			
N-MeFOSAA	12.1	2.0	ng/L	10.0		121	70-130			
Perfluorododecanoic acid (PFDoA)	10.6	2.0	ng/L	10.0		106	70-130			
Perfluorotridecanoic acid (PFTrDA)	11.0	2.0	ng/L	10.0		110	70-130			
Perfluorotetradecanoic acid (PFTA)	10.8	2.0	ng/L	10.0		108	70-130			
Hexafluoropropylene oxide dimer acid	7.87	2.0	ng/L	10.0		78.7	70-130			
HFPO-DA)			_	_						
1Cl-PF3OUdS (F53B Major)	8.72	2.0	ng/L	9.40		92.8	70-130			
Cl-PF3ONS (F53B Minor)	10.4	2.0	ng/L	9.30		112	70-130			
,8-dioxa-3H-perfluorononanoic acid ADONA)	9.43	2.0	ng/L	10.0		94.3	70-130			
Surrogate: 13C-PFHxA	40.0		ng/L	40.0		99.9	70-130			
Surrogate: M3HFPO-DA	37.8		ng/L	40.0		94.5	70-130			
Surrogate: 13C-PFDA	40.6		ng/L	40.0		101	70-130			
Surrogate: d5-NEtFOSAA	174		ng/L	160		109	70-130			



QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B255389 - EPA 300.0										
Blank (B255389-BLK1)				Prepared &	Analyzed: 03	/31/20				
Nitrate as N	ND	0.10	mg/L							
Nitrite as N	ND	0.100	mg/L							
LCS (B255389-BS1)				Prepared &	Analyzed: 03	/31/20				
Nitrate as N	1.0		mg/L	1.00		101	90-110			
Nitrite as N	0.980		mg/L	1.00		98.0	90-110			
LCS Dup (B255389-BSD1)				Prepared &	Analyzed: 03	/31/20				
Nitrate as N	1.0		mg/L	1.00		101	90-110	0.0297	20	
Nitrite as N	0.981		mg/L	1.00		98.1	90-110	0.102	20	
Batch B255413 - SM 21-22 5210B										
Blank (B255413-BLK1)				Prepared &	Analyzed: 03	/31/20				
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B255413-BS1)				Prepared &	Analyzed: 03	/31/20				
Biochemical Oxygen Demand	180	2.0	mg/L	198		92.0	85-115			



FLAG/QUALIFIER SUMMARY

* OC re	sult 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

DL Method Detection Limit

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.



CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 300.0 in Drinking Water	
Nitrate as N	MA
Nitrite as N	MA
EPA 537.1 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorohexanoic acid (PFHxA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorohexanesulfonic acid (PFHxS)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluoroheptanoic acid (PFHpA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,NY,NH,PA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,NY,NH,PA
Perfluorononanoic acid (PFNA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorodecanoic acid (PFDA)	NH-P,VT-DW,NJ,CT,ME,PA
N-EtFOSAA	NH-P,VT-DW,NJ,CT,ME,PA
Perfluoroundecanoic acid (PFUnA)	NH-P,VT-DW,NJ,CT,ME,PA
N-MeFOSAA	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorododecanoic acid (PFDoA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorotridecanoic acid (PFTrDA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorotetradecanoic acid (PFTA)	NH-P,VT-DW,NJ,CT,ME,PA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,VT-DW,NJ,CT,ME,PA
11Cl-PF3OUdS (F53B Major)	NH-P,VT-DW,NJ,CT,ME,PA
9Cl-PF3ONS (F53B Minor)	NH-P,VT-DW,NJ,CT,ME,PA
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,VT-DW,NJ,CT,ME,PA

SM 21-22 5210B in Water

Biochemical Oxygen Demand CT,MA,NH,NY,RI,ME,VA,NC

 $The \ CON\text{-}TEST \ Environmental \ Laboratory \ operates \ under the following \ certifications \ and \ accreditations:$

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publile Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

Table of Contents Glassware in freezer? Y / N Prepackaged Cooler? Y / N "Contest is not responsible for missing samples from prepacked Disclaimer: Con-Test Labs 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 wha analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con Fest values your partnership on each project and will try to assist with missing information, but will not I Glassware in the fridge? Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water 2 Preservation Codes: N = Nitric Acid S = Sulfuric Acid B = Sodium Bisulfate Total Number Of: X = Sodium Hydroxide T = Sodium O = Other (please 0 = Other (please Non Soxhlet PCB ONLY Z } coolers Preservation Code Soxhiet H = HCL M = Methanol S = Soil SL = Studge SOL = Solid Page 1 of BACTERIA PLASTIC VIALS GLASS ENCORE Thiosulfate A = Air define) define) possible sample concentration within the Conc Code column above:
H · High; M · Medium; L · Low; C · Clean; U · Please use the following codes to indicate HELAC and Alfa-LAP, LLC Accredition Chromatogram
AHA-LAP,LLC AIHA-LAP, LLC PRESERVED TRIZMA ANALYSIS REQUESTED held accountable. Doc # 381 Rev 2_06262019 LEA EQUIS Y FILE FORMAT, S DAY TAT, PFAS ٦. ACP Certification Form Required RCP Certification Form Reguired MA MCP Required WRTA MA State DW Required CT RCP Require × λ 39 Spruce Street East Longmeadow, МА 01028 ENCORE BACTERIA EXCEL Field Filtered Field Filtered Lab to Filter Lab to Filter PLASTIC School MWRA S MBTA 7 GLASS format CHAIN OF CUSTODY RECORD VIALS 0 0 0 0 Conc Code Other: LFA FAVS X FSO http://www.contestlabs.com Municipality Brownfield Due Date: Matrix Code 10-Day 5 S Granday 2 CLP Like Data Pkg Required; COMP/GRAB GRAR X PFAS 10-Day (std) 万天 Ending Date/Time Government Email To: ax To #: ormat. Chen Che Federal I-Day -Day 2-Day City Project Entity 30/20 130 /20 Beginning Date/Time Email: info@contestlabs.com Date/Time: 15cc Atte/Time: Client Sample ID / Description Phone: 413-525-2332 Schuel Fax: 413-525-6405 S Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: CO -source 8/20 OH1 40107 Franko S 146001 TOWORD 5 Oas 12 74 Sterstida Jac 1383 Con-Test Quote Name/Number: Project Manager: John 1891-E00 inquisbed by: (signature) y: (signature) etinquished by: (signature) Relinquished by: (signature Received by: (signature) (signature) eceived by: (signature) Work Order# 00 Con Test invoice Recipient: Project Location: Project Number:

Lab Comments

Page

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eceived by:

Sampled By:

KAF

Address:

IMPORTANT!

We are continuing to respond to the impact of COVID-19 around the world. See our latest updates. For COVID-19-related recipient closures, you can redirect packages, Ask FedEx, or contact the shipper.



770134572157 🖠



Delivered Tuesday 3/31/2020 at 9:25 am



DELIVERED

Signed for by: R.PIATRAS

GET STATUS UPDATES OBTAIN PROOF OF DELIVERY

FROM

PLAINVILLE, CT US

TO

EAST LONGMEADOW, MA US in a

Multiple-piece Shipment

2 Piece shipment

TRACKING NUMBER	SHIPPER CITY, STATE	SHIP DATE	STATUS	DELIVERY DATE	DESTINATION/RECIPIENT CITY, STATE
770134571025 (master)	WINDSOR LOCKS, CT	3/30/2020	Euroisers of Cours in a collision and Statement Co	3/31/2020	EAST LONGMEADOW, MA
770134572157	WINDSOR LOCKS, CT	3/30/2020	& married & marr	3/31/2020	EAST LONGMEADOW, MA

Shipment Facts

TRACKING NUMBER 770134572157	SERVICE	MASTER TRACKING NUMBER
770334072107	FedEx Priority Overnight	770134571025
WEIGHT	DELIVERED TO	TOTAL PIECES
37 lbs / 16.78 kgs	Shipping/Receiving	2
TOTAL SHIPMENT WEIGHT	TERMS	SHIPPER REFERENCE
37 lbs / 16.78 kgs	Shipper	18HG001.001
PÁCKAGING	SPECIAL HANDLING SECTION	STANDARD TRANSIT
Your Packaning	Deliver Weekday	

SHIP DATE

ACTUAL DELIVERY

https://www.fedex.com/apps/fedextrack/?action=track&trackingnumber=770134572157&cntry_code=us&locale=en_US

3/31/2020 by 10:30 am

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



Doc# 277 Rev 5 2017

	receipt officeringt	· (Rejection C	Criteria Listing - Us	ing Acceptai	nce Policy) Any Fal	se
Sta	tement will be brou	ight to the at	tention of the Clie	nt - State Tru	e or False	
Client L	Oureira		ı			
Received By	RAP		Date3	31 20	TimeO	JT
How were the samp	les In Cooler		No Cooler	On Ice	-T No	lce
received?	Direct from Sam	pling		Ambient	Melt	ed Ice
Were samples with	in	By Gun #	2	Actual Ten	1p- 31/41	
Temperature? 2-6°		By Blank #		Actual Ten	np -	
Was Custod	y Seal Intact?		Were Samp	les Tampered	d with? (A)	
	elinquished?		Does Chain A	gree With Sa	imples?	
Are there broke	n/leaking/loose cap	s on any samp	ples?			
Is COC in ink/ Legib		-	Were samples rec	eived within h	olding time?	1
Did COC include a			Analysis	Samp	ler Name	
pertinent Information	n? Project	T	ID's	Collection	Dates/Times	T
Are Sample labels fi	lled out and legible?	T				
Are there Lab to Filte	rs?	F	Who w	as notified?	000000000000000000000000000000000000000	
Are there Rushes?		F	Who w	as notified?		
Are there Short Hold	s?	T	Who w	as notified?	Irma	
Is there enough Volu	me?					
Is there Headspace	vhere applicable?	<u> </u>	MS/MSD	?		· · · · · · · · · · · · · · · · · · ·
Proper Media/Contai	ners Used?	-	And the second s	g samples red	ouired?	
Were trip blanks rece		TC	On COC	-		
Do all samples have	A complete company and a company of the company of		- Acid	ilos	Base	Control of the Contro
Vials #		VΛ				
Unp-	Gontainers: 1 Liter Amb.		1 Liter Plastic	#	16 oz Amb.	
HCL-	500 mL Amb.		500 mL Plastic	+ , 1	8oz Amb/Clea	<u></u>
			JUV IIIL MIASIIC	1 1	I OUZ AITID/CIC	\$1
Meon- i	250 ml Amh				·	or .
	250 mL Amb.		250 mL Plastic	<u> </u>	4oz Amb/Clea	
Bisulfate-	Flashpoint		250 mL Plastic Col./Bacteria	14	4oz Amb/Clea 2oz Amb/Clea	
Bisulfate- DI-	Flashpoint Other Glass		250 mL Plastic Col./Bacteria Other Plastic		4oz Amb/Clea 2oz Amb/Clea Encore	
Bisulfate- DI- Thiosulfate-	Flashpoint		250 mL Plastic Col./Bacteria Other Plastic Plastic Bag	l Q	4oz Amb/Clea 2oz Amb/Clea	
Bisulfate- DI- Thiosulfate-	Flashpoint Other Glass SOC Kit		250 mL Plastic Col./Bacteria Other Plastic Plastic Bag Ziplock	<u> </u>	4oz Amb/Clea 2oz Amb/Clea Encore	
Bisulfate- DI- Thiosulfate- Sulfuric-	Flashpoint Other Glass SOC Kit Perchlorate		250 mL Plastic Col./Bacteria Other Plastic Plastic Bag	<u> </u>	4oz Amb/Clea 2oz Amb/Clea Encore	
Bisulfate- DI- Thiosulfate- Sulfuric-	Flashpoint Other Glass SOC Kit Perchlorate Containers:	# 1	250 mL Plastic Col./Bacteria Other Plastic Plastic Bag Ziplock Unused Media	4	4oz Amb/Clea 2oz Amb/Clea Encore Frozen:	
Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp-	Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb.		250 mL Plastic Col./Bacteria Other Plastic Plastic Bag Ziplock Unused Media 1 Liter Plastic		4oz Amb/Clea 2oz Amb/Clea Encore Frozen:	ar #
Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL-	Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb.	#	250 mL Plastic Col./Bacteria Other Plastic Plastic Bag Ziplock Unused Media 1 Liter Plastic 500 mL Plastic		4oz Amb/Clea 2oz Amb/Clea Encore Frozen: 16 oz Amb. 8oz Amb/Clea	er
Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh-	Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb.		250 mL Plastic Col./Bacteria Other Plastic Plastic Bag Ziplock Unused Media 1 Liter Plastic 500 mL Plastic 250 mL Plastic		4oz Amb/Clea 2oz Amb/Clea Encore Frozen: 16 oz Amb. 8oz Amb/Clea 4oz Amb/Clea	ar # ar
Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate-	Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb.	#	250 mL Plastic Col./Bacteria Other Plastic Plastic Bag Ziplock Unused Media 1 Liter Plastic 500 mL Plastic		4oz Amb/Clea 2oz Amb/Clea Encore Frozen: 16 oz Amb. 8oz Amb/Clea 4oz Amb/Clea 2oz Amb/Clea	ar # ar
Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate- DI-	Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria		250 mL Plastic Col./Bacteria Other Plastic Plastic Bag Ziplock Unused Media 1 Liter Plastic 500 mL Plastic 250 mL Plastic Flashpoint		4oz Amb/Clea 2oz Amb/Clea Encore Frozen: 16 oz Amb. 8oz Amb/Clea 4oz Amb/Clea	ar # ar
Bisulfate- DI- Thiosulfate- Sulfuric- Vias Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate-	Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic		250 mL Plastic Col./Bacteria Other Plastic Plastic Bag Ziplock Unused Media 1 Liter Plastic 500 mL Plastic 250 mL Plastic Flashpoint Other Glass		4oz Amb/Clea 2oz Amb/Clea Encore Frozen: 16 oz Amb. 8oz Amb/Clea 4oz Amb/Clea 2oz Amb/Clea Encore	ar # ar
Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-	Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit		250 mL Plastic Col./Bacteria Other Plastic Plastic Bag Ziplock Unused Media 1 Liter Plastic 500 mL Plastic 250 mL Plastic Flashpoint Other Glass Plastic Bag		4oz Amb/Clea 2oz Amb/Clea Encore Frozen: 16 oz Amb. 8oz Amb/Clea 4oz Amb/Clea 2oz Amb/Clea Encore	ar # ar
Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-	Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit		250 mL Plastic Col./Bacteria Other Plastic Plastic Bag Ziplock Unused Media 1 Liter Plastic 500 mL Plastic 250 mL Plastic Flashpoint Other Glass Plastic Bag		4oz Amb/Clea 2oz Amb/Clea Encore Frozen: 16 oz Amb. 8oz Amb/Clea 4oz Amb/Clea 2oz Amb/Clea Encore	ar # ar
Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-	Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit		250 mL Plastic Col./Bacteria Other Plastic Plastic Bag Ziplock Unused Media 1 Liter Plastic 500 mL Plastic 250 mL Plastic Flashpoint Other Glass Plastic Bag		4oz Amb/Clea 2oz Amb/Clea Encore Frozen: 16 oz Amb. 8oz Amb/Clea 4oz Amb/Clea 2oz Amb/Clea Encore	ar # ar
Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-	Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit		250 mL Plastic Col./Bacteria Other Plastic Plastic Bag Ziplock Unused Media 1 Liter Plastic 500 mL Plastic 250 mL Plastic Flashpoint Other Glass Plastic Bag		4oz Amb/Clea 2oz Amb/Clea Encore Frozen: 16 oz Amb. 8oz Amb/Clea 4oz Amb/Clea 2oz Amb/Clea Encore	ar # ar
Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Comments:	Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit		250 mL Plastic Col./Bacteria Other Plastic Plastic Bag Ziplock Unused Media 1 Liter Plastic 500 mL Plastic 250 mL Plastic Flashpoint Other Glass Plastic Bag		4oz Amb/Clea 2oz Amb/Clea Encore Frozen: 16 oz Amb. 8oz Amb/Clea 4oz Amb/Clea 2oz Amb/Clea Encore	ar # ar
Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-	Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit	***************************************	250 mL Plastic Col./Bacteria Other Plastic Plastic Bag Ziplock Unused Media 1 Liter Plastic 500 mL Plastic 250 mL Plastic Flashpoint Other Glass Plastic Bag		4oz Amb/Clea 2oz Amb/Clea Encore Frozen: 16 oz Amb. 8oz Amb/Clea 4oz Amb/Clea 2oz Amb/Clea Encore	ar Br
Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-	Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit		250 mL Plastic Col./Bacteria Other Plastic Plastic Bag Ziplock Unused Media 1 Liter Plastic 500 mL Plastic 250 mL Plastic Flashpoint Other Glass Plastic Bag		4oz Amb/Clea 2oz Amb/Clea Encore Frozen: 16 oz Amb. 8oz Amb/Clea 4oz Amb/Clea 2oz Amb/Clea Encore	ar Br



April 7, 2020

John Bondos Loureiro Engineering Associates 100 Northwest Drive Plainville, CT 06062

Project Location: 382 Oral School Rd, Groton, CT

Client Job Number:

Project Number: 18HG001.001

Laboratory Work Order Number: 20C1376

Enclosed are results of analyses for samples received by the laboratory on March 31, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano Project Manager

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Loureiro Engineering Associates

100 Northwest Drive Plainville, CT 06062

ATTN: John Bondos

REPORT DATE: 4/7/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20C1376

18HG001.001

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

PROJECT LOCATION: 382 Oral School Rd, Groton, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1401671	20C1376-01	Drinking Water		EPA 300.0	
				EPA 537.1	
1401672	20C1376-02	Drinking Water		EPA 537.1	
1401671	20C1376-03	Drinking Water		SM 21-22 5210B	



CASE NARRATIVE SUMMARY

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

 $The \ results \ of \ analyses \ reported \ only \ relate \ to \ samples \ submitted \ to \ the \ Con-Test \ Analytical \ Laboratory \ for \ testing.$

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



Project Location: 382 Oral School Rd, Groton, CT Sample Description: Work Order: 20C1376

Date Received: 3/31/2020 Field Sample #: 1401671

Sampled: 3/30/2020 10:00

83.5

95.7

Sample ID: 20C1376-01 Sample Matrix: Drinking

13C-PFDA

d5-NEtFOSAA

Sample Matrix: Drinking Water									
		Semivo	latile Organic Compo	ınds by - LC	MS-MS				
		1	MCL/SMCL				Date	Date/Time	
Analyte	Results	RL	MA ORSG Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L	1		EPA 537.1	4/1/20	4/2/20 19:55	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L	1		EPA 537.1	4/1/20	4/2/20 19:55	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L	1		EPA 537.1	4/1/20	4/2/20 19:55	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L	1		EPA 537.1	4/1/20	4/2/20 19:55	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L	1		EPA 537.1	4/1/20	4/2/20 19:55	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L	1		EPA 537.1	4/1/20	4/2/20 19:55	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L	1		EPA 537.1	4/1/20	4/2/20 19:55	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L	1		EPA 537.1	4/1/20	4/2/20 19:55	BLM
N-EtFOSAA	ND	2.0	ng/L	1		EPA 537.1	4/1/20	4/2/20 19:55	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L	1		EPA 537.1	4/1/20	4/2/20 19:55	BLM
N-MeFOSAA	ND	2.0	ng/L	1		EPA 537.1	4/1/20	4/2/20 19:55	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L	1		EPA 537.1	4/1/20	4/2/20 19:55	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L	1		EPA 537.1	4/1/20	4/2/20 19:55	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L	1		EPA 537.1	4/1/20	4/2/20 19:55	BLM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0	ng/L	1		EPA 537.1	4/1/20	4/2/20 19:55	BLM
11Cl-PF3OUdS (F53B Major)	ND	2.0	ng/L	1		EPA 537.1	4/1/20	4/2/20 19:55	BLM
9Cl-PF3ONS (F53B Minor)	ND	2.0	ng/L	1		EPA 537.1	4/1/20	4/2/20 19:55	BLM
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0	ng/L	1		EPA 537.1	4/1/20	4/2/20 19:55	BLM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
13C-PFHxA		92.7	70-130					4/2/20 19:55	
M3HFPO-DA		85.4	70-130					4/2/20 19:55	

70-130

70-130

4/2/20 19:55

4/2/20 19:55



Project Location: 382 Oral School Rd, Groton, CT Sample Description: Work Order: 20C1376

Date Received: 3/31/2020

Field Sample #: 1401671 Sampled: 3/30/2020 10:00

Sample ID: 20C1376-01
Sample Matrix: Drinking Water

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

			MCL/SMCL					Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Nitrate as N	0.31	0.10	10	mg/L	1		EPA 300.0	3/31/20	3/31/20 16:03	IS
Nitrite as N	ND	0.100	1	mg/L	1		EPA 300.0	3/31/20	3/31/20 16:03	IS



Project Location: 382 Oral School Rd, Groton, CT Sample Description: Work Order: 20C1376

Date Received: 3/31/2020 Field Sample #: 1401672

Sampled: 3/30/2020 10:00

96.6

Sample ID: 20C1376-02
Sample Matrix: Drinking Water

d5-NEtFOSAA

		Semivol	atile Organ	ic Compoun	ds by - LC/	MS-MS				
Analyte	Results		MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:30	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:30	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:30	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:30	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:30	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:30	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:30	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:30	BLM
N-EtFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:30	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:30	BLM
N-MeFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:30	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:30	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:30	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:30	BLM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:30	BLM
11Cl-PF3OUdS (F53B Major)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:30	BLM
9Cl-PF3ONS (F53B Minor)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:30	BLM
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/3/20 13:30	BLM
Surrogates		% Recovery	Recovery	y Limits		Flag/Qual		· · · · · ·	· · · · · ·	
13C-PFHxA		89.9	70-1	130					4/3/20 13:30	
M3HFPO-DA		84.8	70-1						4/3/20 13:30	
13C-PFDA		83.7	70-1	130					4/3/20 13:30	

70-130

4/3/20 13:30



Project Location: 382 Oral School Rd, Groton, CT Sample Description: Work Order: 20C1376

Date Received: 3/31/2020 Field Sample #: 1401671

Sampled: 3/30/2020 10:00

Sample ID: 20C1376-03
Sample Matrix: Drinking Water

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

							Date	Date/Time	
Analyte	Results	RL	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Biochemical Oxygen Demand	ND	4.0	mg/L	1		SM 21-22 5210B	3/31/20	3/31/20 18:55	EC



Sample Extraction Data

Prep Method: EPA 300.0-EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20C1376-01 [1401671]	B255389	10.0	10.0	03/31/20

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20C1376-01 [1401671]	B255419	250	1.00	04/01/20
20C1376-02 [1401672]	B255419	250	1.00	04/01/20

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
20C1376-03 [1401671]	B255413	150	03/31/20



QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B255419 - EPA 537.1										
Blank (B255419-BLK1)				Prepared: 04	1/01/20 Anal	yzed: 04/02/2	20			
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
erfluorononanoic acid (PFNA)	ND	2.0	ng/L							
erfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
N-EtFOSAA	ND	2.0	ng/L							
erfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
I-MeFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Hexafluoropropylene oxide dimer acid HFPO-DA)	ND	2.0	ng/L							
1Cl-PF3OUdS (F53B Major)	ND	2.0	ng/L							
Cl-PF3ONS (F53B Minor)	ND	2.0	ng/L							
,8-dioxa-3H-perfluorononanoic acid ADONA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	37.9		ng/L	40.0		94.8	70-130			
Surrogate: M3HFPO-DA	35.8		ng/L	40.0		89.4	70-130			
Surrogate: 13C-PFDA	37.7		ng/L	40.0		94.3	70-130			
surrogate: d5-NEtFOSAA	170		ng/L	160		106	70-130			
LCS (B255419-BS1)				Prepared: 04	1/01/20 Anal	yzed: 04/02/2	20			
Perfluorobutanesulfonic acid (PFBS)	8.41	2.0	ng/L	8.85		95.1	70-130			
Perfluorohexanoic acid (PFHxA)	10.2	2.0	ng/L	10.0		102	70-130			
erfluorohexanesulfonic acid (PFHxS)	10.1	2.0	ng/L	9.10		111	70-130			
erfluoroheptanoic acid (PFHpA)	9.41	2.0	ng/L	10.0		94.1	70-130			
erfluorooctanoic acid (PFOA)	10.0	2.0	ng/L	10.0		100	70-130			
erfluorooctanesulfonic acid (PFOS)	9.62	2.0	ng/L	9.25		104	70-130			
erfluorononanoic acid (PFNA)	11.3	2.0	ng/L	10.0		113	70-130			
Perfluorodecanoic acid (PFDA)	10.3	2.0	ng/L	10.0		103	70-130			
N-EtFOSAA	12.1	2.0	ng/L	10.0		121	70-130			
erfluoroundecanoic acid (PFUnA)	10.1	2.0	ng/L	10.0		101	70-130			
N-MeFOSAA	12.1	2.0	ng/L	10.0		121	70-130			
Perfluorododecanoic acid (PFDoA)	10.6	2.0	ng/L	10.0		106	70-130			
Perfluorotridecanoic acid (PFTrDA)	11.0	2.0	ng/L	10.0		110	70-130			
Perfluorotetradecanoic acid (PFTA)	10.8	2.0	ng/L	10.0		108	70-130			
Hexafluoropropylene oxide dimer acid	7.87	2.0	ng/L	10.0		78.7	70-130			
HFPO-DA)			_	_						
1Cl-PF3OUdS (F53B Major)	8.72	2.0	ng/L	9.40		92.8	70-130			
Cl-PF3ONS (F53B Minor)	10.4	2.0	ng/L	9.30		112	70-130			
,8-dioxa-3H-perfluorononanoic acid ADONA)	9.43	2.0	ng/L	10.0		94.3	70-130			
Surrogate: 13C-PFHxA	40.0		ng/L	40.0		99.9	70-130			
Surrogate: M3HFPO-DA	37.8		ng/L	40.0		94.5	70-130			
Surrogate: 13C-PFDA	40.6		ng/L	40.0		101	70-130			
Surrogate: d5-NEtFOSAA	174		ng/L	160		109	70-130			



QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B255389 - EPA 300.0										
Blank (B255389-BLK1)				Prepared &	Analyzed: 03	/31/20				
Nitrate as N	ND	0.10	mg/L							
Nitrite as N	ND	0.100	mg/L							
LCS (B255389-BS1)				Prepared &	Analyzed: 03	/31/20				
Nitrate as N	1.0		mg/L	1.00		101	90-110			
Nitrite as N	0.980		mg/L	1.00		98.0	90-110			
LCS Dup (B255389-BSD1)				Prepared &	Analyzed: 03	/31/20				
Nitrate as N	1.0		mg/L	1.00		101	90-110	0.0297	20	
Nitrite as N	0.981		mg/L	1.00		98.1	90-110	0.102	20	
Batch B255413 - SM 21-22 5210B										
Blank (B255413-BLK1)				Prepared &	Analyzed: 03	/31/20				
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B255413-BS1)				Prepared &	Analyzed: 03	/31/20				
Biochemical Oxygen Demand	180	2.0	mg/L	198		92.0	85-115			



FLAG/QUALIFIER SUMMARY

* OC re	sult is outside of	established limits.
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† 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

DL Method Detection Limit

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.



CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 300.0 in Drinking Water	
Nitrate as N	MA
Nitrite as N	MA
EPA 537.1 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorohexanoic acid (PFHxA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorohexanesulfonic acid (PFHxS)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluoroheptanoic acid (PFHpA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,NY,NH,PA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,NY,NH,PA
Perfluorononanoic acid (PFNA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorodecanoic acid (PFDA)	NH-P,VT-DW,NJ,CT,ME,PA
N-EtFOSAA	NH-P,VT-DW,NJ,CT,ME,PA
Perfluoroundecanoic acid (PFUnA)	NH-P,VT-DW,NJ,CT,ME,PA
N-MeFOSAA	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorododecanoic acid (PFDoA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorotridecanoic acid (PFTrDA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorotetradecanoic acid (PFTA)	NH-P,VT-DW,NJ,CT,ME,PA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,VT-DW,NJ,CT,ME,PA
11Cl-PF3OUdS (F53B Major)	NH-P,VT-DW,NJ,CT,ME,PA
9Cl-PF3ONS (F53B Minor)	NH-P,VT-DW,NJ,CT,ME,PA
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	NH-P,VT-DW,NJ,CT,ME,PA

SM 21-22 5210B in Water

Biochemical Oxygen Demand CT,MA,NH,NY,RI,ME,VA,NC

 $The \ CON\text{-}TEST \ Environmental \ Laboratory \ operates \ under the following \ certifications \ and \ accreditations:$

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Publile Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

201376

Prepackaged Cooler? Y / N missing samples from prepacked Glassware in freezer? Y / N *Contest is not responsible for Fest values your partnership on each project and will try to assist with missing information, but will not b Chain of Custody is a legal document that must be complete and accurate and is used to determine what Glassware in the fridge? analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The S = Suffuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium
Thiosulfate Matrix Codes:

GW = Ground Water

WW = Waste Water

DW = Drinking Water Total Number Of: ² Preservation Codes: S = Soil SL = Studge SOL = Solid O = Other (please define) 0 = Other (please Non Soxhlet H = HCL M = Methanol N = Nitric Acid PCB ONLY X/N Preservation Code coolers Soxhlet Page of BACTERIA VIALS PLASTIC GLASS ENCORE A = Air possible sample concentration within the Conc Code column above: H - High; M - Medium; L - Low; C - Clean; U -Please use the following codes to indicate MELAG and Alfla LaP, LLC Accredited Chromatogram

AIHA-LAP,LLC CTRUPLEA Equis 4 File format, 5. Pay TAT, PFAS passerud ANALYSIS REOUESTED held accountable. Doc # 381 Rev 2_06262019 ACP Certification Form Regulred MA MCP Require MA State DW Required 725 CT RCP Requ 39 Spruce Street East Longmeadow, MA 01028 ENCORE BACTERIA Field Filtered Field Filtered Lab to Fitter Lab to Filter PLASTIC School N MWRA Z MBTA GLASS CHAIN OF CUSTODY RECORD VIALS 0 0 0 0 Conc Code http://www.contestlabs.com PDF Municipality Brownfield Due Date: ¹Matrix Code 3 10-Day WSID A 9 Pary 3-Day ormat: Edv.5 4 Hill CLP Like Data Pkg Required: COMP/GRAB GRAR G 84 PFAS 10-Day (std) ion 1000 Ending Date/Time Government Email Fo: Fax To #: Other: Federal ·Day 7-Day -Day Client Comments: Project Entity アンド 3/2/10 Beginning Date/Time Email: info@contestlabs.com Date/Time: 725 Client Sample ID / Description Phone: 413-525-2332 Fax: 413-525-6405 Date/Time: Date/Time: Date/Time: Date/Time: うとどう Schoo 18H6001, 00 しないでする人 140167 140167 . Northwe 3,414.1 Sampled By: Strasticu 00 つかり Con-Test Quote Name/Number: ٨ COS-KS. Relinquished by: (signature) by: (signature) (elinquished by: (signature) elinquished by: (signature SU Project Location: 36 (signature) (eceived by: (signature) Con-Test Work Order# Project Manager; Invoice Recipient: Project Number: 22 Lab Comments eceived by: eceived by Address: Phone: Page 14 of 16

IMPORTANT!

We are continuing to respond to the impact of COVID-19 around the world. <u>See our latest updates</u>. For COVID-19-related recipient closures, you can <u>redirect packages</u>, <u>Ask FedEx</u>, or contact the shipper.



770134572157 🖏



Delivered Tuesday 3/31/2020 at 9:25 am



DELIVERED

Signed for by: R.PIATRAS

GET STATUS UPDATES OBTAIN PROOF OF DELIVERY

EAST LONGMEADOW, MA US

Multiple-piece Shipment

2 Piece shipment

TRACKING NUMBER	SHIPPER CITY, STATE	SHIP DATE	STATUS	DELIVERY DATE	DESTINATION/RECIPIENT CITY, STATE
770134571025 (master)	WINDSOR LOCKS, CT	3/30/2020	© araine (Consumer of Consumer	3/31/2020	EAST LONGMEADOW, MA
770134572157	WINDSOR LOCKS, CT	3/30/2020	Operation of the season of the	3/31/2020	EAST LONGMEADOW, MA

Shipment Facts

TRACKING NUMBER	SERVICE	MASTER TRACKING NUMBER
770134572157	FedEx Priority Overnight	770134571025
WEIGHT	DELIVERED TO	TOTAL PIECES
37 lbs / 16.78 kgs	Shipping/Receiving	2
TOTAL SHIPMENT WEIGHT	TERMS	SHIPPER REFERENCE
37 lbs / 16.78 kgs	Shipper	18HG001.001
PACKAGING	SPECIAL HANDLING SECTION	STANDARD TRANSIT
Your Packaging	Deliver Weekday	?
		3/31/2020 by 10:30 am

SHIP DATE

ACTUAL DELIVERY

Page 15 of 16

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



Doc# 277 Rev 5 2017

-	5		Criteria Listing - Us		-, -	alse
	Statement will be bro	ought to the a	ttention of the Clie	nt - State Tru	e or False	
Client	Loureira		<u> </u>			
Received B	PAp		Date 3	31/20	Time	925
How were the sa	amples In Cooler		No Cooler	On Ice		No Ice
received?		malina	***************************************	— Ambient	. N	lelted Ice
	Direct Holli Sa					
Were samples	within	By Gun #		Actual Ten	1p - 5/1/4.	\
Temperature? 2		By Blank #		Actual Ten		
Was Cus	tody Seal Intact?	<u>^A</u>	Were Samp	les Tampere	d with?	<u> </u>
	C Relinquished?		_ Does Chain A	gree With Sa	imples?	T
Are there by	roken/leaking/loose ca	ps on any sam	iples?			
Is COC in ink/ Le		***	Were samples rec	eived within h	olding time?	1
Did COC includ			Analysis		ler Name	<u>T</u>
pertinent Informa	a man a man		ID's	Collection	Dates/Times	
PERSONAL PROPERTY NAMED IN CONTROL OF	els filled out and legible	?	- 11			
Are there Lab to I		- F	_ Who w	as notified?		
Are there Rushes	s?	F	_ Who w	as notified?		<u> </u>
Are there Short I-	łolds?		_ Who w	as notified?	Irma	
is there enough \	/olume?		_			
Is there Headspa	ce where applicable?	È	MS/MSD			No. American
Proper Media/Co	ntainers Used?	- T	ls splittin	g samples re	quired?	
Were trip blanks	received?	<u> </u>	On COC	? +		**************************************
Do ali samples ha	ave the proper pH?	Nt	Acid	Total Control of the	Base	
Viais	# Containers.	1 1				
Unp-	4 1 4					
Olip	1 Liter Amb.	32.20	1 Liter Plastic		16 oz Am	ıb.
HCL-	500 mL Amb.		500 mL Plastic	1	16 oz Am 8oz Amb/C	
HCL- Meoh-	500 mL Amb. 250 mL Amb.		500 mL Plastic 250 mL Plastic	4	8oz Amb/C 4oz Amb/C	lear lear
HCL- Meoh- Bisulfate-	500 mL Amb. 250 mL Amb. Flashpoint		500 mL Plastic 250 mL Plastic Col./Bacteria	1	8oz Amb/C 4oz Amb/C 2oz Amb/C	lear lear lear
HCL- Meoh- Bisulfate- DI-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass		500 mL Plastic 250 mL Plastic Col./Bacteria Other Plastic	Ů.	8oz Amb/C 4oz Amb/C 2oz Amb/C Encore	lear lear lear
HCL- Meoh- Bisulfate- DI- Thiosulfate-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit		500 mL Plastic 250 mL Plastic Col./Bacteria Other Plastic Plastic Bag	Y	8oz Amb/C 4oz Amb/C 2oz Amb/C	lear lear lear
HCL- Meoh- Bisulfate- DI- Thiosulfate-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass		500 mL Plastic 250 mL Plastic Col./Bacteria Other Plastic	J. J	8oz Amb/C 4oz Amb/C 2oz Amb/C Encore	lear lear lear
HCL- Meoh- Bisulfate- DI- Thiosulfate-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit		500 mL Plastic 250 mL Plastic Col./Bacteria Other Plastic Plastic Bag	Y	8oz Amb/C 4oz Amb/C 2oz Amb/C Encore	lear lear lear
HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit		500 mL Plastic 250 mL Plastic Col./Bacteria Other Plastic Plastic Bag Ziplock		8oz Amb/C 4oz Amb/C 2oz Amb/C Encore	lear lear lear
HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb.	#	500 mL Plastic 250 mL Plastic Col./Bacteria Other Plastic Plastic Bag Ziplock Unused Media 1 Liter Plastic		8oz Amb/C 4oz Amb/C 2oz Amb/C Encore Frozen:	lear lear lear
HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL-	500 mL Amb. 250 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb.	***************************************	500 mL Plastic 250 mL Plastic Col./Bacteria Other Plastic Plastic Bag Ziplock Unused Media 1 Liter Plastic 500 mL Plastic		8oz Amb/C 4oz Amb/C 2oz Amb/C Encore Frozen:	lear lear lear b.
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HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Thiosulfate-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit	#	500 mL Plastic 250 mL Plastic Col./Bacteria Other Plastic Plastic Bag Ziplock Unused Media 1 Liter Plastic 500 mL Plastic 250 mL Plastic Flashpoint Other Glass Plastic Bag		8oz Amb/C 4oz Amb/C 2oz Amb/C Encore Frozen: 16 oz Am 8oz Amb/C 4oz Amb/C 2oz Amb/C	lear lear lear b. lear lear lear
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HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit	#	500 mL Plastic 250 mL Plastic Col./Bacteria Other Plastic Plastic Bag Ziplock Unused Media 1 Liter Plastic 500 mL Plastic 250 mL Plastic Flashpoint Other Glass Plastic Bag		8oz Amb/C 4oz Amb/C 2oz Amb/C Encore Frozen: 16 oz Am 8oz Amb/C 4oz Amb/C 2oz Amb/C Encore	lear lear lear b. lear lear lear
HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit	#	500 mL Plastic 250 mL Plastic Col./Bacteria Other Plastic Plastic Bag Ziplock Unused Media 1 Liter Plastic 500 mL Plastic 250 mL Plastic Flashpoint Other Glass Plastic Bag		8oz Amb/C 4oz Amb/C 2oz Amb/C Encore Frozen: 16 oz Am 8oz Amb/C 4oz Amb/C 2oz Amb/C Encore	lear lear lear b. lear lear lear
HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit	#	500 mL Plastic 250 mL Plastic Col./Bacteria Other Plastic Plastic Bag Ziplock Unused Media 1 Liter Plastic 500 mL Plastic 250 mL Plastic Flashpoint Other Glass Plastic Bag		8oz Amb/C 4oz Amb/C 2oz Amb/C Encore Frozen: 16 oz Am 8oz Amb/C 4oz Amb/C 2oz Amb/C Encore	lear lear lear b. lear lear lear
HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit	#	500 mL Plastic 250 mL Plastic Col./Bacteria Other Plastic Plastic Bag Ziplock Unused Media 1 Liter Plastic 500 mL Plastic 250 mL Plastic Flashpoint Other Glass Plastic Bag		8oz Amb/C 4oz Amb/C 2oz Amb/C Encore Frozen: 16 oz Am 8oz Amb/C 4oz Amb/C 2oz Amb/C Encore	lear lear lear b. lear lear lear



April 16, 2020

John Bondos Loureiro Engineering Associates 100 Northwest Drive Plainville, CT 06062

Project Location: Mystic Client Job Number:

Project Number: 18HG001.001

Laboratory Work Order Number: 20D0456

Enclosed are results of analyses for samples received by the laboratory on April 10, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano Project Manager

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Loureiro Engineering Associates

100 Northwest Drive

ATTN: John Bondos

REPORT DATE: 4/16/2020

Plainville, CT 06062 PURCHASE ORDER NUMBER:

PROJECT NUMBER: 18HG001.001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20D0456

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

PROJECT LOCATION: Mystic

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1401682	20D0456-01	Drinking Water		EPA 300.0	
1401682	20D0456-02	Drinking Water		SM 21-22 5210B	



CASE NARRATIVE SUMMARY

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

SM 21-22 5210B

Qualifications:

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side. Analyte & Samples(s) Qualified:

Biochemical Oxygen Demand

B256077-BS1

The results of analyses reported only relate to samples submitted to the Con-Test 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.

Lua Watslengton Technical Representative



Sample Description: Work Order: 20D0456

Project Location: Mystic
Date Received: 4/10/2020
Field Sample #: 1401682

Sampled: 4/9/2020 10:20

Sample ID: 20D0456-01
Sample Matrix: Drinking Water

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

MCL/SMCL						Date	Date/Time			
Analyte	Results	RL	MA ORSG	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Nitrate as N	0.16	0.10	10	mg/L	1		EPA 300.0	4/10/20	4/10/20 22:16	KMV
Nitrite as N	ND	0.100	1	mg/L	1		EPA 300.0	4/10/20	4/10/20 22:16	KMV



Sample Description: Work Order: 20D0456

Project Location: Mystic
Date Received: 4/10/2020
Field Sample #: 1401682

Sampled: 4/9/2020 10:20

Sample ID: 20D0456-02
Sample Matrix: Drinking Water

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

							Date	Date/Time	
Analyte	Results	RL	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Biochemical Oxygen Demand	ND	4.0	mg/L	1		SM 21-22 5210B	4/10/20	4/10/20 19:30	DJM



Sample Extraction Data

Prep Method: EPA 300.0-EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date	
20D0456-01 [1401682]	B256083	10.0	10.0	04/10/20	

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
20D0456-02 [1401682]	B256077	150	04/10/20



QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B256077 - SM 21-22 5210B											
Blank (B256077-BLK1)		Prepared & Analyzed: 04/10/20									
Biochemical Oxygen Demand	ND	2.0	mg/L								
LCS (B256077-BS1)				Prepared &	Analyzed: 04	/10/20					
Biochemical Oxygen Demand	130	2.0	mg/L	198		66.9 *	85-115			L-04	
Batch B256083 - EPA 300.0											
Blank (B256083-BLK1)				Prepared &	Analyzed: 04	/10/20					
Nitrate as N	ND	0.10	mg/L								
Nitrite as N	ND	0.100	mg/L								
LCS (B256083-BS1)				Prepared &	Analyzed: 04	/10/20					
Nitrate as N	1.0		mg/L	1.00		103	90-110				
Nitrite as N	1.02		mg/L	1.00		102	90-110				
LCS Dup (B256083-BSD1)				Prepared &	Analyzed: 04	/10/20					
Nitrate as N	1.0		mg/L	1.00		103	90-110	0.234	20		
Nitrite as N	1.01		mg/L	1.00		101	90-110	0.384	20		



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

DL Method Detection Limit

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.

L-04 Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits.

Reported value for this compound is likely to be biased on the low side.



CERTIFICATIONS

Certified Analyses included in this Report

Analyte Certifications

EPA 300.0 in Drinking Water

Nitrate as N MA
Nitrite as N MA

SM 21-22 5210B in Water

Biochemical Oxygen Demand CT,MA,NH,NY,RI,ME,VA,NC

The CON-TEST 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	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

Glassware in freezer? Y / N Prepackaged Cooler? Y / N missing samples from prepacked "Contest is not responsible for Fest values your partnership on each project and will try to assist with missing information, but will not to Chain of Custody is a legal document that must be complete and accurate and is used to determine whar analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con Glassware in the fridge? Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Matrix Codes:

GW = Ground Water

WW = Waste Water

DW = Drinking Water Total Number Of ² Preservation Codes: X = Sodium Hydroxide T = Sodium B = Sodium Bisulfate S = Soil SL = Sludge SOL = Solid O = Other (please 0 = Other (please Page 1 of 1 f = Iced H = HCl. M = Methanol N = Nitric Acid Non Soxhlet S = Sulfuric Acid PCB ONLY Z / > coolers Soxhlet ² Preservation Code BACTERIA GLASS VIALS PLASTIC ENCORE Thiosulfate define) A = Air define) possible sample concentration within the Conc H · High; M · Medium; L · Low; C · Clean; U · Please use the following codes to indicate HELAC and Allta-LAP, LLC Accredited Chromatogram

AIHA-LAP,LLC Code column above: ANALYSIS REQUESTED held accountable. Doc # 381 Rev 2_06262019 2879 3008 1 With रावायड ACP Certification Form Required RCP Certification Form Required MA MCP Required CT RCP Required WRTA MA State DW Required 0 1'LES7 39 Spruce Street East Longmeadow, MA 01028 MITH TribAN ENCORE BACTERIA 3 a bondes @ loure 100. com EXCEL Field Filtered Field Filtered Lab to Fitter Lab to Filter Cont. Code VIALS GLASS PLASTIC School MWRA M8TA 7 CHAIN OF CUSTODY RECORD Gic Format PFAS preserved 0 0 0 0 P × 2 4 4 S Chittp://www.contestlabs.com Municipality Brownfield Due Date: Matrix Code 10-Day # ORSAN 3-Day 4-Day 7 CLP Like Data Pkg Required: Equ. 5 COMP/GRAB のます 100h PFAS 10-Day (std) 10:0 20 Government Date/Time Email To: Ending Fax To #: ormat. Other: Federal -Day Cinking World 2-Day 7-Day Client Comments: City Project Entity 3 Mysh Beginning Date/Time 7/9/m Email: info@contest(abs.com ロバンの 4-10-202c Client Sample ID / Description Phone: 413-525-2332 Fax: 413-525-6405 Date/Time: 933 Date/Time: Date/Time; Date/Time: Date/Time: Date/Time: Date/Time: Project Location: 783101 5 87 10 h1 レクリアとうで John Bundus 919 THE COLUMN 184600 Stonstill न्र (greyved by: (signature) Con-Test Quote Name/Number; COD-trst elinquished by: (signature) telinquished by: (signature) Refinquished by: (signature) Relinquished by: (signature) 820 (eceived by: (signature) Received by: (signature) Received by: (signature) 500 Work Order# Con-Test Project Number: Project Manager: invoice Recipient: Lab Comments sampled By: Address: Phone: Page 11 of 13

IMPORTANT!

We are continuing to respond to the impact of COVID-19 around the world. <u>See our latest updates.</u> For COVID-19-related recipient closures, you can <u>redirect packages</u>, <u>Ask FedEx</u>, or contact the shipper.







Delivered Friday 4/10/2020 at 9:32 am



DELIVERED

Signed for by: R.PIETRAIS

GET STATUS UPDATES OBTAIN PROOF OF DELIVERY

FROM

PLAINVILLE GT US

EAST LONGMEADOW, MA US

Multiple-piece Shipment

2 Piece shipment

TRACKING NUMBER	SHIPPER CITY, STATE	SHIP DATE	STATUS	DELIVERY DATE	 DESTINATION/RECIPIENT CITY, STATE	
770208394883 (master)	WINDSOR LOCKS, CT	4/09/2020	### 1	4/10/2020	EAST LONGMEADOW, MA	
770208394894	WINDSOR LOCKS, CT	4/09/2020	Commissibility and control of the second of	4/10/2020	EAST LONGMEADOW, MA	

Shipment Facts

Shipment Facts		
TRACKING NUMBER 770208394894	SERVICE FedEx Priority Overnight	MASTER TRACKING NUMBER 770208394883
WEIGHT 25 lbs / 11.34 kgs	DELIVERED TO Shipping/Receiving	TOTAL PIECES 2
TOTAL SHIPMENT WEIGHT 25 lbs / 11.34 kgs	TERMS Shipper	SHIPPER REFERENCE 18HG001.001

SPECIAL HANDLING SECTION

PACKAGING Vour Packagin

Your Packaging Deliver Weekday

STANDARD TRANSIT

4/10/2020 by 10.30 am

SHIP DATE

ACTUAL DELIVERY

Page 12 of 13

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



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

Received By	<u>u</u>		Date	4-10-202	ල	Time	932	
How were the san	nples In Cooler	T	No Cooler		On Ice	T	No Ice	
received?	Direct from Sam	pling			Ambient		Melted Ice	······································
Were samples w		By Gun #	2			np-5.4, 2.1		1888
Temperature? 2-		By Blank #			Actual Ten		<u> </u>	
• CONTROL ID TON BROWN W BI	ody Seal Intact?	_ by blank #		re Samples			F	
	Relinquished?			Chain Agre			T	
	ken/leaking/loose cap		nles?	F	SC VVIIII O	inhies:		
ls COC in ink/ Leg		o on any oann			ed within h	nolding time?	7	
Did COC include		- T	Analysis	T		ler Name		
pertinent Informat			ID's	Ť		Dates/Times		
	filled out and legible?	T			0011001101	, Dates, Times		
Are there Lab to Fi		F		Who was	notified?			
Are there Rushes?		7		Who was		Lucy		
Are there Short Ho	lds?	T		Who was		Lucy		
s there enough Vo	lume?	T		TTTO WAS	ilotinou:			
s there Headspace	where applicable?	. JA	1	MS/MSD?	F			
Proper Media/Cont				s splitting s		nuired?		Settle ter
Vere trip blanks re		F		On COC?			The second second second	11000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
o all samples hav	e the proper pH?	NA	Acid		-	- Base	es An solution	institute of
(alt e	Containers:				Nav president			
		a name of the contract of the						entration in the second of the second
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ICL-	1 Liter Amb. 500 mL Amb.		1 Liter F 500 mL		1	16 oz a 8oz Ami		
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ICL- feoh- isulfate-	500 mL Amb. 250 mL Amb. Flashpoint		500 mL	Plastic Plastic		8oz Ami	o/Clear o/Clear	
ICL- leoh- isulfate- I-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass		500 mL 250 mL	Plastic Plastic cteria		8oz Ami 4oz Ami	o/Clear o/Clear o/Clear	
ICL- fleoh- isulfate- il- hiosulfate-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit		500 mL 250 mL Col./Ba Other P Plastic	Plastic Plastic cteria Plastic Bag		8oz Ami 4oz Ami 2oz Ami	o/Clear o/Clear o/Clear	
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ICL- Ileoh- isulfate- I- hiosulfate- ulfuric- Ials # np- CL- eoh- sulfate- I-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic		500 mL 250 mL l Col./Ba Other P Plastic Ziplo Unused M 1 Liter P 500 mL F 250 mL F Flashp Other G	Plastic Plastic Cteria Plastic Bag Ck edia Plastic		8oz Amb 4oz Amb 2oz Amb Enco Frozen: 16 oz A 8oz Amb 4oz Amb	Amb. h/Clear h/Clear h/Clear h/Clear h/Clear h/Clear	
ICL- Ieoh- isulfate- II- hiosulfate- ulfuric- IAS IAS IAS IAS IAS IAS IAS IA	500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit		500 mL 250 mL 1 Col./Ba Other P Plastic Ziplo Unused M 1 Liter P 500 mL F 250 mL F Flashp Other G Plastic	Plastic Plastic Cteria Plastic Bag Ck edia Plastic		8oz Amb 4oz Amb 2oz Amb Enco Frozen: 16 oz A 8oz Amb 4oz Amb 2oz Amb	Amb. h/Clear h/Clear h/Clear h/Clear h/Clear h/Clear	
ICL- Meoh- isulfate- II- hiosulfate- ulfuric-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic		500 mL 250 mL l Col./Ba Other P Plastic Ziplo Unused M 1 Liter P 500 mL F 250 mL F Flashp Other G	Plastic Plastic Cteria Plastic Bag Ck edia Plastic		8oz Amb 4oz Amb 2oz Amb Enco Frozen: 16 oz A 8oz Amb 4oz Amb 2oz Amb	Amb. h/Clear h/Clear h/Clear h/Clear h/Clear h/Clear	

April 20, 2020

John Bondos Loureiro Engineering Associates 100 Northwest Drive Plainville, CT 06062

Project Location: Mystic Client Job Number:

Project Number: 18HG001.001

Laboratory Work Order Number: 20D0459

Enclosed are results of analyses for samples received by the laboratory on April 10, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano Project Manager

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Loureiro Engineering Associates

100 Northwest Drive

ATTN: John Bondos

REPORT DATE: 4/20/2020

Plainville, CT 06062 PURCHASE ORDER NUMBER:

PROJECT NUMBER: 18HG001.001

ANALYTICAL SUMMARY

WORK ORDER NUMBER:

20D0459

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

PROJECT LOCATION: Mystic

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1401682	20D0459-01	Drinking Water		EPA 537.1	
1401683	20D0459-02	Drinking Water		EPA 537.1	



CASE NARRATIVE SUMMARY

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

The results of analyses reported only relate to samples submitted to the Con-Test 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.

Tod E. Kopyscinski Laboratory Director



Sample Description:

Work Order: 20D0459

Date Received: 4/10/2020 Field Sample #: 1401682

Project Location: Mystic

Sampled: 4/9/2020 10:20

Sample ID: 20D0459-01
Sample Matrix: Drinking Water

		Semivo	latile Organi	c Compoun	ds by - LC/	MS-MS				
		1	MCL/SMCL					Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:16	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:16	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:16	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:16	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:16	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:16	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:16	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:16	BLM
N-EtFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:16	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:16	BLM
N-MeFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:16	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:16	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:16	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:16	BLM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:16	BLM
11Cl-PF3OUdS (F53B Major)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:16	BLM
9Cl-PF3ONS (F53B Minor)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:16	BLM
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:16	BLM
Surrogates		% Recovery	Recovery	Limits		Flag/Qual				
13C-PFHxA		85.8	70-1	30					4/15/20 13:16	
M3HFPO-DA		81.2	70-1	30					4/15/20 13:16	
13C-PFDA		87.4	70-1	30					4/15/20 13:16	
d5-NEtFOSAA		102	70-1	30					4/15/20 13:16	



Sample Description: Work Order: 20D0459

Date Received: 4/10/2020 Field Sample #: 1401683

Project Location: Mystic

Sampled: 4/9/2020 10:20

Sample ID: 20D0459-02 Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS										
		1	MCL/SMCL					Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:38	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:38	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:38	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:38	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:38	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:38	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:38	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:38	BLM
N-EtFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:38	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:38	BLM
N-MeFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:38	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:38	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:38	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:38	BLM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:38	BLM
11Cl-PF3OUdS (F53B Major)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:38	BLM
9Cl-PF3ONS (F53B Minor)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:38	BLM
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 13:38	BLM
Surrogates		% Recovery	Recovery	Limits		Flag/Qual				
13C-PFHxA		96.9	70-1						4/15/20 13:38	
M3HFPO-DA		92.5	70-1						4/15/20 13:38	
13C-PFDA		98.3	70-1						4/15/20 13:38	
d5-NEtFOSAA		111	70-1	30					4/15/20 13:38	



Sample Extraction Data

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20D0459-01 [1401682]	B256145	250	1.00	04/13/20
20D0459-02 [1401683]	B256145	250	1.00	04/13/20



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

QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B256145 - EPA 537.1										
Blank (B256145-BLK1)				Prepared: 04	1/13/20 Anal	yzed: 04/15/2	20			
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
N-EtFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
N-MeFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Hexafluoropropylene oxide dimer acid	ND	2.0	ng/L							
HFPO-DA)	110		_							
1Cl-PF3OUdS (F53B Major)	ND	2.0	ng/L							
PCI-PF3ONS (F53B Minor)	ND	2.0	ng/L							
4,8-dioxa-3H-perfluorononanoic acid ADONA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	36.3		ng/L	40.0		90.8	70-130			
Surrogate: M3HFPO-DA	35.5		ng/L	40.0		88.9	70-130			
Surrogate: 13C-PFDA	36.8		ng/L	40.0		91.9	70-130			
Surrogate: d5-NEtFOSAA	173		ng/L	160		108	70-130			
LCS (B256145-BS1)				Prepared: 04	1/13/20 Anal	yzed: 04/15/2	20			
Perfluorobutanesulfonic acid (PFBS)	7.80	2.0	ng/L	8.85		88.2	70-130			
Perfluorohexanoic acid (PFHxA)	8.65	2.0	ng/L	10.0		86.5	70-130			
Perfluorohexanesulfonic acid (PFHxS)	8.45	2.0	ng/L	9.10		92.8	70-130			
Perfluoroheptanoic acid (PFHpA)	9.09	2.0	ng/L	10.0		90.9	70-130			
Perfluorooctanoic acid (PFOA)	9.28	2.0	ng/L	10.0		92.8	70-130			
Perfluorooctanesulfonic acid (PFOS)	8.20	2.0	ng/L	9.25		88.6	70-130			
Perfluorononanoic acid (PFNA)	9.35	2.0	ng/L	10.0		93.5	70-130			
Perfluorodecanoic acid (PFDA)	9.44	2.0	ng/L	10.0		94.4	70-130			
N-EtFOSAA	12.4	2.0	ng/L	10.0		124	70-130			
Perfluoroundecanoic acid (PFUnA)	9.34	2.0	ng/L	10.0		93.4	70-130			
N-MeFOSAA	10.7	2.0	ng/L	10.0		107	70-130			
Perfluorododecanoic acid (PFDoA)	9.46	2.0	ng/L	10.0		94.6	70-130			
Perfluorotridecanoic acid (PFTrDA)	9.36	2.0	ng/L	10.0		93.6	70-130			
Perfluorotetradecanoic acid (PFTA)	8.67	2.0	ng/L	10.0		86.7	70-130			
Hexafluoropropylene oxide dimer acid HFPO-DA)	7.62	2.0	ng/L	10.0		76.2	70-130			
1Cl-PF3OUdS (F53B Major)	6.87	2.0	ng/L	9.40		73.1	70-130			
OCI-PF3ONS (F53B Minor)	8.38	2.0	ng/L	9.30		90.1	70-130			
1,8-dioxa-3H-perfluorononanoic acid ADONA)	7.82	2.0	ng/L	10.0		78.2	70-130			
Surrogate: 13C-PFHxA	31.4		ng/L	40.0		78.4	70-130			
Surrogate: M3HFPO-DA	30.4		ng/L ng/L	40.0		76.0	70-130			
Surrogate: 13C-PFDA	32.8		ng/L ng/L	40.0		82.1	70-130			
Surrogate: d5-NEtFOSAA	148		ng/L ng/L	160		92.6	70-130			



FLAG/QUALIFIER SUMMARY

† 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

DL Method Detection Limit

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.



CERTIFICATIONS

Certified Analyses included in this Report

4,8-dioxa-3H-perfluorononanoic acid (ADONA)

Analyte Certifications

EPA 537.1 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorohexanoic acid (PFHxA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorohexanesulfonic acid (PFHxS)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluoroheptanoic acid (PFHpA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,NY,NH,PA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,NY,NH,PA
Perfluorononanoic acid (PFNA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorodecanoic acid (PFDA)	NH-P,VT-DW,NJ,CT,ME,PA
N-EtFOSAA	NH-P,VT-DW,NJ,CT,ME,PA
Perfluoroundecanoic acid (PFUnA)	NH-P,VT-DW,NJ,CT,ME,PA
N-MeFOSAA	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorododecanoic acid (PFDoA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorotridecanoic acid (PFTrDA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorotetradecanoic acid (PFTA)	NH-P,VT-DW,NJ,CT,ME,PA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,VT-DW,NJ,CT,ME,PA
11Cl-PF3OUdS (F53B Major)	NH-P,VT-DW,NJ,CT,ME,PA
9Cl-PF3ONS (F53B Minor)	NH-P,VT-DW,NJ,CT,ME,PA

The CON-TEST 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	06/30/2020
CT	Connecticut Department of Publile Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

NH-P,VT-DW,NJ,CT,ME,PA

missing samples from prepacked Glassware in freezer? Y / N Prepackaged Cooler? Y / N "Contest is not responsible for Glassware in the fridge? Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air Total Number Of: 2 Preservation Codes X = Sodium Hydroxide T = Sodium S = Sulfuric Acid B = Sodium Bisulfate Courier Use Only S = Soil SL = Studge SOL = Solid O = Other (please Thiosulfate O = Other (please define) I = Iced H = HCL M = Methanol N = Nitric Acid coolers Page of ² Preservation Code BACTERIA PLASTIC ENCORE VIALS GLASS possible sample concentration within the Conc H - High; M - Medium; L - Low; C - Clean; U -Please use the following codes to indicate Code column above: ANALYSIS REQUESTED Doc # 381 Rev 2_06262019 17 30D रावायड MCP Certification Form Required CT RCP Required RCP Certification Form Required MA MCP Required SAAG 1'1857 39 Spruce Street East Longmeadow, MA 01028 WITH Trizma ENCORE GLASS PLASTIC BACTERIA olved Merals Samples in bundes @ loure no. com EXCEL Splecial Regulicements Field Filtered Field Filtered Lab to Filter Lab to Filter Gir Borns CHAIM OF CUSTOBY RECORD VIALS 0 0 0 0 PI PFAS preserved Conc Code Σ http://www.contestlabs.com Due Date: *Matrix Code 10-Day 3-Day I purcue 4-Day 2 CLP Like Data Pkg Required: COMP/GRAB Equis Orsh (JR) PFAS 10-Day (std) 122 020 Email To: Ending Date/Time Fax To #: format: Other: 7-Day -Day Wake 2-Day Client Comments 9/10 19/2 Beginning Date/Time Mysh Email: info@contestlabs.com ロンノウ 4-10-2020 Citent Sample ID / Description Phone: 413-525-2332 Fax: 413-525-6405 Date/Time: 932 Date/Time: Date/Time: Date/Time: Date/Time: 5871041 Project Location: - 2-2-4 Stockney John Bundas ovreiro 783 1971 ソジンといるア 747 Stansfird 20004159 Received by: (signature) Con-Test Quote Name/Number: CON-KSE 2 elinquished by: (signature) elinquished by: (signature) Relinquished by: (signature) elinquished by: (signature 800 202 (eceived by: (signature) eceived by: (signature) (eceived by: (signature) Work Order# Con-Test nvoice Recipient: Project Number: Project Manager: ab Comments sampled By: Address: Phone: Page 11 of 13

IMPORTANT!

We are continuing to respond to the impact of COVID-19 around the world. See our latest updates. For COVID-19-related recipient closures, you can redirect packages, Ask FedEx, or contact the shipper.









Delivered Friday 4/10/2020 at 9:32 am



DELIVERED

Signed for by: R.PIETRAIS

GET STATUS UPDATES OBTAIN PROOF OF DELIVERY

FROM TO

Multiple-piece Shipment

2 Piece shipment

NUMBER	SHIPPER CITY, STATE	SHIP DATE	STATUS	DELIVERY DATE	DESTINATION/RECIPIENT CITY, STATE
770208394883 (master)	WINDSOR LOCKS, CT	4/09/2020		4/10/2020	EAST LONGMEADOW, MA
770208394894	WINDSOR LOCKS, CT	4/09/2020		4/10/2020	EAST LONGMEADOW, MA

Shipment Facts

TRACKING NUMBER 770208394894	SERVICE FedEx Priority Overnight	MASTER TRACKING NUMBER 770208394883
WEIGHT 25 lbs / 11.34 kgs	DELIVERED TO Shipping/Receiving	TOTAL PIÈCES

TOTAL SHIPMENT WEIGHT TERMS SHIPPER REFERENCE 25 lbs / 11.34 kas Shinner 18HG001 001

20 103 / 11.04 kgs	Supper	10110001.001
PACKAGING Your Packaging	SPECIAL HANDLING SECTION Deliver Weekday	STANDARD TRANSIT (7) 4/10/2020 by 10:30 am

SHIP DATE

ACTUAL DELIVERY

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



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

Received By	UR UR		Date	4-10-20	o Co	Time	932	
low were the sar	nples In Cooler	T	No Cooler		On Ice	T	No ice	
received?	Direct from Sam	pling			- Ambient		Melted Ice	
Were samples w	ithin	By Gun#	2		Actual Ter	np-5.4, 2.6	****	
Temperature? 2-		By Blank #			Actual Ter		<u> </u>	
to consistent production of the property of th	ody Seal Intact?	- Dy Diank #		re Sample	es Tampere		F	
	Relinquished?				gree With Sa			
	ken/leaking/loose cap			F	9,00 11,00	ampies:		
COC in ink/ Leg		o on any oann			– vived within t	nolding time?	T	
Did COC include	to the state of th	- T	Analysis	T		ler Name	<u> </u>	
ertinent Informat	ion? Project	T	ID's	T		Dates/Times	7	
re Sample labels	filled out and legible?	ī	-		_		- · · · · · · · · · · · · · · · · · · ·	
e there Lab to F		F		Who wa	s notified?			
e there Rushes?		F			s notified?			
e there Short Ho	lds?	F			s notified?			
there enough Vo	lume?							
there Headspac	e where applicable?	NA		MS/MSD?	· F	The second		
oper Media/Cont	ainers Used?		the state of the s	(2) 自由主动 经证据产额的基本数据。	samples re		rose F	
ere trip blanks re	ceived?			On COC?				
all samples hav	e the proper pH?	NA	Acid	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	onnerwood	Base	in the following of the enteresting of the control	Dirik ik Ika
il i i i i i i i i i i i i i i i i i i	(Containers:					_		in in the
ip-		× 22-0-2-00-00-00-00-00-00-00-00-00-00-00-	4 1 11 5	Plactic				
'P'	1 Liter Amb.	1	7 Liter F	<i>i</i> Clotic	1	16 oz /	Amb. I	
	500 mL Amb.		1 Liter F 500 mL			16 oz / 8oz Ami		
CL- eoh-				Plastic	3	16 oz a 8oz Amb 4oz Amb	o/Clear	
cL- eoh- sulfate-	500 mL Amb. 250 mL Amb. Flashpoint		500 mL	Plastic Plastic	3	8oz Aml	o/Clear o/Clear	******
L- oh- ulfate-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass		500 mL 250 mL	Plastic Plastic cteria	3	8oz Amb 4oz Amb	o/Clear o/Clear o/Clear	
oh- ulfate- losulfate-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit		500 mL 250 mL Col./Ba	Plastic Plastic cteria Plastic	3	8oz Ami 4oz Ami 2oz Ami	o/Clear o/Clear o/Clear	· · · · · · · · · · · · · · · · · · ·
coh- culfate- cosulfate-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass		500 mL 250 mL Col./Ba Other P	Plastic Plastic cteria Plastic Bag	3	8oz Amt 4oz Amt 2oz Amt Enco	o/Clear o/Clear o/Clear	
coh- culfate- cosulfate-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit		500 mL 250 mL Col./Ba Other P Plastic Ziplo	Plastic Plastic cteria Plastic Bag	3	8oz Amt 4oz Amt 2oz Amt Enco	o/Clear o/Clear o/Clear	
coh- sulfate- iosulfate- lfuric-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit	*	500 mL 250 mL Col./Ba Other P Plastic	Plastic Plastic cteria Plastic Bag	3	8oz Amt 4oz Amt 2oz Amt Enco	o/Clear o/Clear o/Clear	
CL- eoh- sulfate- iosulfate- Ifuric-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate		500 mL 250 mL Col./Ba Other P Plastic Ziplo Unused M	Plastic Plastic cteria Plastic Bag ick	3	8oz Ami 4oz Ami 2oz Ami Enco Frozen:	o/Clear o/Clear o/Clear ore	
coh- coh- colfate- cosulfate- lfuric-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate		500 mL 250 mL Col./Ba Other P Plastic Ziplo	Plastic Plastic cteria Plastic Bag ck edia	3	8oz Amb 4oz Amb 2oz Amb Enco Frozen:	o/Clear o/Clear o/Clear ore	
ccl- eoh- sulfate- iosulfate- lfuric- ls p- ccl- oh-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb.		500 mL 250 mL Col./Ba Other P Plastic Ziplo Unused M	Plastic Plastic cteria Plastic Bag ock edia Plastic	3	8oz Ami 4oz Ami 2oz Ami Enco Frozen:	o/Clear o/Clear o/Clear ore	
cc- coh- coh- collifate- cosulfate- lfuric- ls p- cc- cc- cc- cc- cc- cc- cc- cc- cc-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria		500 mL 250 mL Col./Ba Other P Plastic Ziplo Unused M 1 Liter P 500 mL N	Plastic Plastic cteria Plastic Bag ck ledia Plastic Plastic Plastic	3	8oz Amb 4oz Amb 2oz Amb Enco Frozen:	Amb.	
iosulfate- lfuric- ls p- L- oh- ulfate- ulfate-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic		500 mL 250 mL Col./Ba Other P Plastic Ziplo Unused M 1 Liter P 500 mL F	Plastic Plastic cteria Plastic Bag ck ledia Plastic Plastic Plastic Plastic Plastic Plastic	3.	8oz Amb 4oz Amb 2oz Amb Enco Frozen:	Amb. b/Clear core	
cL- eoh- sulfate- iosulfate- lfuric- ls p- sL- oh- ulfate- osulfate-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit		500 mL 250 mL Col./Ba Other P Plastic Ziplo Unused M 1 Liter P 500 mL F 250 mL F	Plastic Plastic cteria Plastic Bag ck edia Plastic	3	8oz Amb 4oz Amb 2oz Amb Enco Frozen: 16 oz Amb 4oz Amb 2oz Amb	Amb. b/Clear core	
culfate- iosulfate- lfuric-	500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic	*	500 mL 250 mL Col./Ba Other P Plastic Ziplo Unused M 1 Liter P 500 mL F 250 mL F Flashp Other C	Plastic Plastic cteria Plastic Bag pick ledia Plastic	3	8oz Amb 4oz Amb 2oz Amb Enco Frozen: 16 oz A 8oz Amb 4oz Amb 2oz Amb	Amb. b/Clear core	



April 20, 2020

John Bondos Loureiro Engineering Associates 100 Northwest Drive Plainville, CT 06062

Project Location: 402 Oral School Rd

Client Job Number:

Project Number: 18HG001.001

Laboratory Work Order Number: 20D0462

Enclosed are results of analyses for samples received by the laboratory on April 10, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano Project Manager

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Loureiro Engineering Associates

100 Northwest Drive

REPORT DATE: 4/20/2020

Plainville, CT 06062 ATTN: John Bondos

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 18HG001.001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20D0462

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

PROJECT LOCATION: 402 Oral School Rd

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1401811	20D0462-01	Drinking Water		EPA 537.1	
1401812	20D0462-02	Drinking Water		EPA 537.1	



CASE NARRATIVE SUMMARY

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

The results of analyses reported only relate to samples submitted to the Con-Test 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.

Tod E. Kopyscinski Laboratory Director

Work Order: 20D0462



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

Sample Description:

91.3

Project Location: 402 Oral School Rd Date Received: 4/10/2020 Sampled: 4/9/2020 11:20 Field Sample #: 1401811

Sample ID: 20D0462-01 Sample Matrix: Drinking Water

d5-NEtFOSAA

		Semivol	latile Organi	ic Compoun	ds by - LC/	MS-MS				
		I	MCL/SMCL					Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:21	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:21	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:21	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:21	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:21	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:21	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:21	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:21	BLM
N-EtFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:21	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:21	BLM
N-MeFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:21	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:21	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:21	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:21	BLM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:21	BLM
11Cl-PF3OUdS (F53B Major)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:21	BLM
9Cl-PF3ONS (F53B Minor)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:21	BLM
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:21	BLM
Surrogates		% Recovery	Recovery	Limits		Flag/Qual				
13C-PFHxA		83.7	70-1	30					4/15/20 14:21	
M3HFPO-DA		79.5	70-1						4/15/20 14:21	
13C-PFDA		78.4	70-1	30					4/15/20 14:21	

70-130

4/15/20 14:21

Work Order: 20D0462



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

Sample Description:

98.3

Project Location: 402 Oral School Rd Date Received: 4/10/2020 Sampled: 4/9/2020 11:20 Field Sample #: 1401812

Sample ID: 20D0462-02 Sample Matrix: Drinking Water

d5-NEtFOSAA

Semivolatile Organic Compounds by - LC/MS-MS

		Sciiivo	mune Organi	e compoun	ds by Len	115 1115				
		1	MCL/SMCL					Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:43	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:43	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:43	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:43	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:43	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:43	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:43	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:43	BLM
N-EtFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:43	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:43	BLM
N-MeFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:43	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:43	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:43	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:43	BLM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:43	BLM
11Cl-PF3OUdS (F53B Major)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:43	BLM
9Cl-PF3ONS (F53B Minor)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:43	BLM
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:43	BLM
Surrogates		% Recovery	Recovery	Limits		Flag/Qual				
13C-PFHxA		90.1	70-1	30					4/15/20 14:43	
M3HFPO-DA		87.1	70-1	30					4/15/20 14:43	
13C-PFDA		88.4	70-1	30					4/15/20 14:43	

70-130

4/15/20 14:43



Sample Extraction Data

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20D0462-01 [1401811]	B256145	250	1.00	04/13/20
20D0462-02 [1401812]	B256145	250	1.00	04/13/20



QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B256145 - EPA 537.1										
Blank (B256145-BLK1)				Prepared: 04	1/13/20 Analy	yzed: 04/15/2	20			
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
erfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
erfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
erfluorononanoic acid (PFNA)	ND	2.0	ng/L							
erfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
I-EtFOSAA	ND	2.0	ng/L							
erfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
I-MeFOSAA	ND	2.0	ng/L							
erfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
erfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
erfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
lexafluoropropylene oxide dimer acid HFPO-DA)	ND	2.0	ng/L							
1Cl-PF3OUdS (F53B Major)	ND	2.0	ng/L							
Cl-PF3ONS (F53B Minor)	ND	2.0	ng/L							
8-dioxa-3H-perfluorononanoic acid ADONA)	ND	2.0	ng/L							
urrogate: 13C-PFHxA	36.3		ng/L	40.0		90.8	70-130			
urrogate: M3HFPO-DA	35.5		ng/L	40.0		88.9	70-130			
urrogate: 13C-PFDA	36.8		ng/L	40.0		91.9	70-130			
urrogate: d5-NEtFOSAA	173		ng/L	160		108	70-130			
.CS (B256145-BS1)				Prepared: 04	1/13/20 Analy	yzed: 04/15/2	20			
erfluorobutanesulfonic acid (PFBS)	7.80	2.0	ng/L	8.85		88.2	70-130			
erfluorohexanoic acid (PFHxA)	8.65	2.0	ng/L	10.0		86.5	70-130			
erfluorohexanesulfonic acid (PFHxS)	8.45	2.0	ng/L	9.10		92.8	70-130			
erfluoroheptanoic acid (PFHpA)	9.09	2.0	ng/L	10.0		90.9	70-130			
erfluorooctanoic acid (PFOA)	9.28	2.0	ng/L	10.0		92.8	70-130			
erfluorooctanesulfonic acid (PFOS)	8.20	2.0	ng/L	9.25		88.6	70-130			
erfluorononanoic acid (PFNA)	9.35	2.0	ng/L	10.0		93.5	70-130			
erfluorodecanoic acid (PFDA)	9.44	2.0	ng/L	10.0		94.4	70-130			
I-EtFOSAA	12.4	2.0	ng/L	10.0		124	70-130			
erfluoroundecanoic acid (PFUnA)	9.34	2.0	ng/L	10.0		93.4	70-130			
I-MeFOSAA	10.7	2.0	ng/L	10.0		107	70-130			
erfluorododecanoic acid (PFDoA)	9.46	2.0	ng/L	10.0		94.6	70-130			
erfluorotridecanoic acid (PFTrDA)	9.36	2.0	ng/L	10.0		93.6	70-130			
erfluorotetradecanoic acid (PFTA)	8.67	2.0	ng/L	10.0		86.7	70-130			
(exafluoropropylene oxide dimer acid HFPO-DA)	7.62	2.0	ng/L	10.0		76.2	70-130			
1Cl-PF3OUdS (F53B Major)	6.87	2.0	ng/L	9.40		73.1	70-130			
Cl-PF3ONS (F53B Minor)	8.38	2.0	ng/L	9.30		90.1	70-130			
,8-dioxa-3H-perfluorononanoic acid ADONA)	7.82	2.0	ng/L	10.0		78.2	70-130			
urrogate: 13C-PFHxA	31.4		ng/L	40.0		78.4	70-130			
urrogate: M3HFPO-DA	30.4		ng/L	40.0		76.0	70-130			
urrogate: 13C-PFDA	32.8		ng/L	40.0		82.1	70-130			
Surrogate: d5-NEtFOSAA	148		ng/L	160		92.6	70-130			



FLAG/QUALIFIER SUMMARY

† 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

DL Method Detection Limit

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.



CERTIFICATIONS

Certified Analyses included in this Report

4,8-dioxa-3H-perfluorononanoic acid (ADONA)

Analyte Certifications

EPA 537.1 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorohexanoic acid (PFHxA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorohexanesulfonic acid (PFHxS)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluoroheptanoic acid (PFHpA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,NY,NH,PA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,NY,NH,PA
Perfluorononanoic acid (PFNA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorodecanoic acid (PFDA)	NH-P,VT-DW,NJ,CT,ME,PA
N-EtFOSAA	NH-P,VT-DW,NJ,CT,ME,PA
Perfluoroundecanoic acid (PFUnA)	NH-P,VT-DW,NJ,CT,ME,PA
N-MeFOSAA	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorododecanoic acid (PFDoA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorotridecanoic acid (PFTrDA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorotetradecanoic acid (PFTA)	NH-P,VT-DW,NJ,CT,ME,PA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,VT-DW,NJ,CT,ME,PA
11Cl-PF3OUdS (F53B Major)	NH-P,VT-DW,NJ,CT,ME,PA
9Cl-PF3ONS (F53B Minor)	NH-P,VT-DW,NJ,CT,ME,PA

The CON-TEST 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	06/30/2020
CT	Connecticut Department of Publile Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

NH-P,VT-DW,NJ,CT,ME,PA

													Ι.	D.	1												<u> </u>		_	Table of	Contents
) you		² Preservation Code	Council Manher Of:		VIALS	PLASTIC	BACTERIA	LNCORE	Glassware in the fridge?	>	Glassware in freezer? Y / N	Prepackaged Cooler? Y / N	"Contest is not responsible for	missing samples from prepacked coolers	' Matrix Codes:	GW = Ground Water	DW = Drinking Water	S = Soil	SOL = Solid	O = Other (please define)	***	² Preservation Codes:	M = HCL M = Methanol N = Mitric Acid	. ∾ ea :	X = Sodium Hydroxide T = Sodium	O = Other (please define)	PCB ONLY	Soxhlet Non Soxhlet		Disclaimer: Con-Test Labs 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. Con Test values your partnership on each project and will try to assist with missing information, but will not it held accountable.	
	ANALYSIS REQUESTED)																	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 -	CHRIOWII	Market and the control of the contro	Chromatogram AfHA-LAP,LLC		We for any omitted information on nust be complete and accurate a nissing information is not the lab t and will try to assist with missineld accountable.	
Doc # 381 Rev 2_06262019 178		1779	175	00 22 L	15 05 05 -11	W, 7 / 2 (/5 N-1 N- N5 \$7	W 71 70 51	141/	ν ν ν ψ	У × × ×	×											Ma MCP Remitted		- 1 m 1			WRTA		Labs is not responsible fo egal document that must: / will perform. Any missir riship on each project and held	
Do 39 Spruce Street East Longmeadow, MA 01028	olved Metal: Simples	Field Filtered	Lab to Filter Orthophosphate Samples	Field Filtered	2011 00 000	EXCEL	7	7.6°			9											~ 2U ~ ~	Special Requirements	MCP Certification Form Required	C.) N.P. Required ISCP Certification Ferm Required	MA State DW Required		MWRA School		Disclaimer: Con-Test Chain of Custody is a le analyses the laboratory Test values your partne	
CHAIN OF CUSTOBY RECORD	ssig	0 0		0 0 3 4 [Data Delivery	POF T-10		pordos@ lourcia, com														erved with	Trectal to	a vertea e e							
Nttp://www.contestlabs.com	Reguested Turnarbund Time	J	Approval I	3-Day		I EN FALLS	1 #	ja	Metrix		Gas	8 Grab Ow										52	chon Umit Requirements	×	4	a diswall	[municipality 21 J 8rownfield			To you gap to the control of the con
		7-Day		1-Day		Format:	Other: CLP Like I	Email To:	Beginning Ending	8	20	11/4/20 11/20									Client Comments:		Detection Umit.		15	O. Kron	E.	Federal			
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IMPORTANT!

We are continuing to respond to the impact of COVID-19 around the world. <u>See our latest updates.</u> For COVID-19-related recipient closures, you can <u>redirect packages</u>, <u>Ask FedEx</u>, or contact the shipper.







Delivered Friday 4/10/2020 at 9:32 am



DELIVERED

Signed for by: R.PIETRAIS

GET STATUS UPDATES OBTAIN PROOF OF DELIVERY

F	RO	М	
-		•••	

PLAINVILLE, CT US

TO

EAST LONGMEADOW, MA US

Multiple-piece Shipment

2 Piece shipment

TRACKING NUMBER	SHIPPER CITY, STATE	SHIP DATE	STATUS	DELIVERY DATE	DESTINATION/RECIPIENT CITY, STATE
770208394883 (master)	WINDSOR LOCKS, CT	4/09/2020	Continued Conservation and Conservation	4/10/2020	EAST LONGMEADOW, MA
770208394894	WINDSOR LOCKS, CT	4/09/2020	& market and the same of the s	4/10/2020	EAST LONGMEADOW, MA

Shipment Facts

T	RA	C	ΚI	N	G	Νl	JM	В	ER	

770208394894

SERVICE

FedEx Priority Overnight

MASTER TRACKING NUMBER

770208394883

WEIGHT

25 lbs / 11.34 kgs

DELIVERED TO

Shipping/Receiving

TOTAL PIECES

2

TOTAL SHIPMENT WEIGHT

25 lbs / 11.34 kgs

TERMS

Shipper

SHIPPER REFERENCE

18HG001.001

PACKAGING

Your Packaging

SPECIAL HANDLING SECTION

Deliver Weekday

STANDARD TRANSIT

?

4/10/2020 by 10:30 am

SHIP DATE

ACTUAL DELIVERY

https://www.fedex.com/apps/fedextrack/index.html?action=track&tracknumbers=770208394894&locale=en_US&cntry_code=en

Page 12 of 13

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



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 Lourerro	****		·····					
Received By	U.		Date	4-10-20	්	_ Time	932	
How were the samples	In Cooler	T	No Cooler		On Ice	T	No Ice	
received?	Direct from Samp	ling			Ambient		Melted Ice	
Were samples within		By Gun#	2		Actual Ten	np-5.4, 2.1	2	
Temperature? 2-6°C	Τ	By Blank #			Actual Ten		T	·)
Was Custody Se		7	We	re Sample	s Tampered		F	
Was COC Relin					ree With Sa			
Are there broken/le			nles?	F	ice willi oa	impies:	1	
Is COC in ink/ Legible?		on any cam			ved within h	olding time?	T	
Did COC include all	Client	7	Analysis	T		ler Name		
pertinent Information?	Project		ID's			Dates/Times	<u> </u>	
Are Sample labels filled		τ	-		0011001101	- Datoo, Times		
Are there Lab to Filters?		F		Who was	s notified?			
Are there Rushes?	-	F			notified?			
Are there Short Holds?	-	F			s notified?			
ls there enough Volume	?	F		TTIO TIGO	riotinoa.			
s there Headspace whe	_	NA	. 1	MS/MSD?	F			
Proper Media/Containers			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Control of the Control of the Control	samples red	uired?	F	
Were trip blanks receive	-	F		On COC?		10.00.		
Do all samples have the	-	NA	Acid			Base	11 S. Nya. In raw grant on	
Vials #	Containers:							
Jnp-	1 Liter Amb.		1 Liter F	Plastic		16 oz /	Amb	
HCL-	500 mL Amb.		500 mL l		*****	8oz Ami		
Meoh-	250 mL Amb.		250 mL l		3	4oz Amt		
Bisulfate-	Flashpoint		Col./Bad			2oz Amb		
DI-	Other Glass		Other P			Enco		
Thiosulfate-	SOC Kit		Plastic	Bag		Frozen:		
Sulfuric-	Perchlorate		Ziplo	ck				
			Unused M	edia				
iak i i	erentanting between	44			1		8 8 8 8 8 1	
Jnp-	1 Liter Amb.		1 Liter P	lastic		16 oz A	∖mb.	
ICL-	500 mL Amb.		500 mL F	Plastic		8oz Amb	/Clear	
Meoh-	250 mL Amb.		250 mL F			4oz Amb	/Clear	
Bisulfate-	Col./Bacteria		Flashp			2oz Amb		
) -	Other Plastic		Other G	Blass		Enco	re	
hiosulfate-	SOC Kit		Plastic	Bag		Frozen:		
Sulfuric-	Perchlorate		Ziplo	ck				
comments:								

Limited volume For sumple 1401812



April 16, 2020

John Bondos Loureiro Engineering Associates 100 Northwest Drive Plainville, CT 06062

Project Location: 402 Oral School Rd

Client Job Number:

Project Number: 18HG001.001

Laboratory Work Order Number: 20D0453

Enclosed are results of analyses for samples received by the laboratory on April 10, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano Project Manager

Table of Contents

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Loureiro Engineering Associates

100 Northwest Drive Plainville, CT 06062

ATTN: John Bondos

REPORT DATE: 4/16/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 18HG001.001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20D0453

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

PROJECT LOCATION: 402 Oral School Rd

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1401811	20D0453-01	Drinking Water		EPA 300.0	
1401811	20D0453-02	Drinking Water		SM 21-22 5210B	



CASE NARRATIVE SUMMARY

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

SM 21-22 5210B

Qualifications:

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side. Analyte & Samples(s) Qualified:

Biochemical Oxygen Demand

B256077-BS1

R-02

Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

Analyte & Samples(s) Qualified:

Biochemical Oxygen Demand

20D0453-02[1401811], B256077-DUP1

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:

Biochemical Oxygen Demand

20D0453-02[1401811], B256077-MSD1

The results of analyses reported only relate to samples submitted to the Con-Test 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.

Technical Representative

Lua Warrengton



Sample Description: Work Order: 20D0453

Date Received: 4/10/2020

Field Sample #: 1401811

Project Location: 402 Oral School Rd

Sampled: 4/9/2020 11:20

Sample ID: 20D0453-01
Sample Matrix: Drinking Water

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

			MCL/SMCL					Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Nitrate as N	0.38	0.10	10	mg/L	1		EPA 300.0	4/10/20	4/10/20 22:38	KMV
Nitrite as N	ND	0.100	1	mg/L	1		EPA 300.0	4/10/20	4/10/20 22:38	KMV



Sample Description: Work Order: 20D0453

Project Location: 402 Oral School Rd Date Received: 4/10/2020 Field Sample #: 1401811

Sampled: 4/9/2020 11:20

Sample ID: 20D0453-02 Sample Matrix: Drinking Water

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

							Date	Date/Time	
Analyte	Results	RL	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Biochemical Oxygen Demand	ND	4.0	mg/L	1	R-02, R-06	SM 21-22 5210B	4/10/20	4/10/20 19:30	DJM



Sample Extraction Data

Prep Method: EPA 300.0-EPA 300.0

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date	
20D0453-01 [1401811]	B256083	10.0	10.0	04/10/20	
SM 21-22 5210B					

Lab Number [Field ID]	Batch	Initial [mL]	Date
20D0453-02 [1401811]	B256077	150	04/10/20



QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B256077 - SM 21-22 5210B						,				
Blank (B256077-BLK1)				Prepared &	Analyzed: 04/	/10/20				
Biochemical Oxygen Demand	ND	2.0	mg/L	Trepured &	maryzea. o n	10/20				
V CC (DAT(ATT DCL)				D 10		110/20				
LCS (B256077-BS1)				*	Analyzed: 04/	10/20				
Biochemical Oxygen Demand	130	2.0	mg/L	198		66.9 *	85-115			L-04
Duplicate (B256077-DUP1)	Sourc	e: 20D0453-	02	Prepared &	Analyzed: 04/	10/20				
Biochemical Oxygen Demand	4.6	4.0	mg/L		ND			NC	26.6	R-02
Matrix Spike (B256077-MS1)	Sourc	e: 20D0453-	02	Prepared &	Analyzed: 04/	10/20				
Biochemical Oxygen Demand	150	2.0	mg/L	198	ND	74.7	66.8-127			
Matrix Spike Dup (B256077-MSD1)	Sourc	e: 20D0453-	02	Prepared &	Analyzed: 04/	10/20				
Biochemical Oxygen Demand	190	2.0	mg/L	198	ND	96.0	66.8-127	24.9	* 20	R-06
Batch B256083 - EPA 300.0										
Blank (B256083-BLK1)				Prepared &	Analyzed: 04/	10/20				
Nitrate as N	ND	0.10	mg/L							
Nitrite as N	ND	0.100	mg/L							
LCS (B256083-BS1)				Prepared &	Analyzed: 04/	10/20				
Nitrate as N	1.0		mg/L	1.00		103	90-110			
Nitrite as N	1.02		mg/L	1.00		102	90-110			
LCS Dup (B256083-BSD1)				Prepared &	Analyzed: 04/	10/20				
			mg/L	1.00		103	90-110	0.234	20	
Nitrate as N	1.0		mg/L	1.00		105	70 110	0.20	20	



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
DL	Method Detection Limit
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.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits Reported value for this compound is likely to be biased on the low side.
R-02	Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.



CERTIFICATIONS

Certified Analyses included in this Report

Analyte Certifications

EPA 300.0 in Drinking Water

Nitrate as N MA
Nitrite as N MA

SM 21-22 5210B in Water

Biochemical Oxygen Demand CT,MA,NH,NY,RI,ME,VA,NC

The CON-TEST 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	06/30/2020
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

Table of Contents *Contest is not responsible for missing samples from prepacked Glassware in freezer? Y / N Prepackaged Cooler? Y / N Fest values your partnership on each project and will try to assist with missing information, but will not t Chain of Custody is a legal document that must be complete and accurate and is used to determine whal analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con Glassware in the fridge? Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The 1 Matrix Codes: GW = Ground Water WW = Waste Water DW = Drinking Water 2 Preservation Codes: N = Nitric Acid S = Sulfuric Acid B = Sodium Bisulfate X = Sodium Hydroxide Total Number Of: A = Air S = Soil SL = Sludge SOL = Solid O = Other (please define) O = Other (please define) Non Soxhiet PCB ONLY Soxhiet Z/ coolers H = HCL M = Methanol Preservation Code BACTERIA ENCORE VIALS PLASTIC GLASS T = Sodium Thiosulfate ö possible sample concentration within the Conc M - High; M - Medium; L - Low; C - Clean; U -Please use the following codes to indicate NELAC and Alka-LAP, LLC Accredited Chromatogram

AIHA-LAP,LLC AIHA-LAP,LLC Code column above: ANALYSIS REQUESTED held accountable. 009 Doc # 381 Rev 2_06262019 N-2+ 8n125 22-12 MCP Certification Form Required RCP Certification Form Required CT RCP Required MA MCP Require AA State DW Required WRIA ×. (1.185 × 39 Spruce Street East Longmeadow, MA 01028 ENCORE PFAS preserved with Trizme GLASS PLASTIC BACTERIA EXCEL Field Filtered Field Filtered Lab to Filter Lab to Filter Subundes @ lourcero, com School MWRA MBTA O EOD CHAIN OF CUSTODY RECORD VIALS 0 0 0 0 LEA EDVIS IN FILE Matrix Conc Code Code Y http://www.contestlabs.com Municipality Brownfield Due Date: 3 3 # GISMA 10-Day 3-Day 4-Day CLP Like Data Pkg Required: COMP/GRAB Gas 000 PFAS 10-Day (std) 3 3 Ending Date/Time Government Email To: -ax To #: Federal ormat: Other: 2-Day i-Day Client Comments: 7-Day City Project Entity Lo Donas 3 Beginning Date/Time WAKEN WART Email: info@contestlabs.com 4-10-626 Client Sample ID / Description Phone: 413-525-2332 Fax: 413-525-6405 タンノ Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: 402 OAL School MOCHINGS) TO 4 Bondos 17018 53 レエ 3 184G00 (ecciyed by: (signature) 860 のようにつる いると Con-Test Quote Name/Number: 2 S efinquished by: (signature) Retinquished by: (signature) Relinquished by: (signature) tetinquished by: (signature) Received by: (signature) Received by: (signature) Received by: (signature) 000 Work Order# Con-Test Invoice Recipient: Project Location: Project Manager: Project Number: ab Comments: sampled By:

Page 11 of 13

Address: Phone;

IMPORTANT!

We are continuing to respond to the impact of COVID-19 around the world. <u>See our latest updates</u>. For COVID-19-related recipient closures, you can <u>redirect packages</u>, <u>Ask FedEx</u>, or contact the shipper.







Delivered Friday 4/10/2020 at 9:32 am



DELIVERED

Signed for by: R.PIETRAIS

GET STATUS UPDATES OBTAIN PROOF OF DELIVERY

FROM
PLAINVILLE, CT US

TO

4/10/2020 by 10.30 am

EAST LONGMEADOW, MAIUS

Multiple-piece Shipment

2 Piece shipment

TRACKING NUMBER	SHIPPER CITY, STATE	SHIP DATE	STATUS	DELIVERY DATE	DESTINATION/RECIPIENT CITY, STATE
770208394883 (master)	WINDSOR LOCKS, CT	4/09/2020	Construction of the second Construction of the s	4/10/2020	EAST LONGMEADOW, MA
770208394894	WINDSOR LOCKS, CT	4/09/2020	Combanis Commission Co	4/10/2020	EAST LONGMEADOW, MA

Shipment Facts

ompriorit i dote		
TRACKING NUMBER 770208394894	SERVICE FedEx Priority Overnight	MASTER TRACKING NUMBER 770208394883
WEIGHT 25 lbs / 11.34 kgs	DELIVERED TO Shipping/Receiving	TOTAL PIECES
TOTAL SHIPMENT WEIGHT 25 lbs / 11.34 kgs	TERMS Shipper	SHIPPER REFERENCE 18HG001.001
PACKAGING Your Packaging	SPECIAL HANDLING SECTION Deliver Weekday	STANDARD TRANSIT

SHIP DATE

ACTUAL DELIVERY

E 1 4 14 0 2000 0 0 0

Page 12 of 13

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



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

Received By	y UR		Date	4-10-20	7 <i>0</i>	Time	932	
How were the sar	mples In Cooler	T	No Cooler		On Ice	T	No Ice	
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		By Gun #	2			1p-5.4, 2.	_	***************************************
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np- CL- leoh- isulfate- l- hiosulfate- ulfuric- ials np- CL- eoh- sulfate- -	Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic	#	1 Liter F 500 mL 250 mL Col./Ba Other F Plastic Ziplo Unused N 1 Liter F 500 mL 250 mL	Plastic Plastic cteria Plastic Bag ock ledia Plastic Plastic Plastic Plastic point	3	16 oz 8oz Am 4oz Am 2oz Am End Frozen: 16 oz 8oz Am 4oz Am 2oz Am	hb/Clear hb/Clear hb/Clear core	
np- CL- leoh- isulfate- I- hiosulfate- ulfuric- ials np- CL- eoh- sulfate- l- hiosulfate-	Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit	#	1 Liter F 500 mL 250 mL Col./Ba Other F Plastic Ziplo Unused N 1 Liter F 500 mL 250 mL Flashp	Plastic Plastic Interior Plastic	3	16 oz 8oz Am 4oz Am 2oz Am End Frozen: 16 oz 8oz Am 4oz Am 2oz Am	Amb. ab/Clear	#
lais and a second secon	Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Flashpoint Other Glass SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic	#	1 Liter F 500 mL 250 mL Col./Ba Other F Plastic Ziplo Unused N 1 Liter F 500 mL 250 mL Flashy Other C	Plastic Plastic cteria Plastic Bag ock ledia Plastic Plastic Plastic Plastic Plastic Slass Bag	3	16 oz 8oz Am 4oz Am 2oz Am End Frozen: 16 oz 8oz Am 4oz Am 2oz Am	Amb. ab/Clear	*



April 3, 2020

John Bondos Loureiro Engineering Associates 100 Northwest Drive Plainville, CT 06062

Project Location: 340 Cow Hill Rd., Groton, CT

Client Job Number:

Project Number: 18HG001.001

Laboratory Work Order Number: 20C1387

Enclosed are results of analyses for samples received by the laboratory on March 31, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano Project Manager

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Loureiro Engineering Associates

100 Northwest Drive Plainville, CT 06062

ATTN: John Bondos

REPORT DATE: 4/3/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20C1387

18HG001.001

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

PROJECT LOCATION: 340 Cow Hill Rd., Groton, CT

FIELD SAMPLE # LAB ID: MATRIX SAMPLE DESCRIPTION TEST SUB LAB

1401669 20C1387-01 Drinking Water EPA 537.1



CASE NARRATIVE SUMMARY

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

The results of analyses reported only relate to samples submitted to the Con-Test 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



Project Location: 340 Cow Hill Rd., Groton, CT Sample Description: Work Order: 20C1387

Date Received: 3/31/2020 Field Sample #: 1401669

Sampled: 3/30/2020 09:00

102

Sample ID: 20C1387-01
Sample Matrix: Drinking Wat

d5-NEtFOSAA

Sample Matrix: Drinking Water										
		Semivo	latile Organi	c Compoun	ds by - LC/	MS-MS				
		I	MCL/SMCL					Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 23:09	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 23:09	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 23:09	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 23:09	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 23:09	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 23:09	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 23:09	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 23:09	BLM
N-EtFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 23:09	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 23:09	BLM
N-MeFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 23:09	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 23:09	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 23:09	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 23:09	BLM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 23:09	BLM
11Cl-PF3OUdS (F53B Major)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 23:09	BLM
9Cl-PF3ONS (F53B Minor)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 23:09	BLM
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0		ng/L	1		EPA 537.1	4/1/20	4/2/20 23:09	BLM
Surrogates		% Recovery	Recovery	Limits		Flag/Qual	·	·		
13C-PFHxA		94.2	70-1						4/2/20 23:09	
M3HFPO-DA		89.4	70-1						4/2/20 23:09	
13C-PFDA		91.5	70-1	30					4/2/20 23:09	

70-130

4/2/20 23:09



Sample Extraction Data

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20C1387-01 [1401669]	B255419	250	1.00	04/01/20



QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B255419 - EPA 537.1										
Blank (B255419-BLK1)				Prepared: 04	1/01/20 Anal	yzed: 04/02/2	20			
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
erfluorononanoic acid (PFNA)	ND	2.0	ng/L							
erfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
N-EtFOSAA	ND	2.0	ng/L							
erfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
I-MeFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Hexafluoropropylene oxide dimer acid HFPO-DA)	ND	2.0	ng/L							
1Cl-PF3OUdS (F53B Major)	ND	2.0	ng/L							
Cl-PF3ONS (F53B Minor)	ND	2.0	ng/L							
,8-dioxa-3H-perfluorononanoic acid ADONA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	37.9		ng/L	40.0		94.8	70-130			
urrogate: M3HFPO-DA	35.8		ng/L	40.0		89.4	70-130			
urrogate: 13C-PFDA	37.7		ng/L	40.0		94.3	70-130			
urrogate: d5-NEtFOSAA	170		ng/L	160		106	70-130			
LCS (B255419-BS1)				Prepared: 04	1/01/20 Anal	yzed: 04/02/2	20			
Perfluorobutanesulfonic acid (PFBS)	8.41	2.0	ng/L	8.85		95.1	70-130			
Perfluorohexanoic acid (PFHxA)	10.2	2.0	ng/L	10.0		102	70-130			
erfluorohexanesulfonic acid (PFHxS)	10.1	2.0	ng/L	9.10		111	70-130			
erfluoroheptanoic acid (PFHpA)	9.41	2.0	ng/L	10.0		94.1	70-130			
Perfluorooctanoic acid (PFOA)	10.0	2.0	ng/L	10.0		100	70-130			
erfluorooctanesulfonic acid (PFOS)	9.62	2.0	ng/L	9.25		104	70-130			
Perfluorononanoic acid (PFNA)	11.3	2.0	ng/L	10.0		113	70-130			
Perfluorodecanoic acid (PFDA)	10.3	2.0	ng/L	10.0		103	70-130			
V-EtFOSAA	12.1	2.0	ng/L	10.0		121	70-130			
Perfluoroundecanoic acid (PFUnA)	10.1	2.0	ng/L	10.0		101	70-130			
N-MeFOSAA	12.1	2.0	ng/L	10.0		121	70-130			
Perfluorododecanoic acid (PFDoA)	10.6	2.0	ng/L	10.0		106	70-130			
Perfluorotridecanoic acid (PFTrDA)	11.0	2.0	ng/L	10.0		110	70-130			
Perfluorotetradecanoic acid (PFTA)	10.8	2.0	ng/L	10.0		108	70-130			
Hexafluoropropylene oxide dimer acid HFPO-DA)	7.87	2.0	ng/L	10.0		78.7	70-130			
1Cl-PF3OUdS (F53B Major)	8.72	2.0	ng/L	9.40		92.8	70-130			
Cl-PF3ONS (F53B Minor)	10.4	2.0	ng/L	9.30		112	70-130			
4,8-dioxa-3H-perfluorononanoic acid ADONA)	9.43	2.0	ng/L	10.0		94.3	70-130			
Surrogate: 13C-PFHxA	40.0		ng/L	40.0		99.9	70-130			
Surrogate: M3HFPO-DA	37.8		ng/L	40.0		94.5	70-130			
Surrogate: 13C-PFDA	40.6		ng/L	40.0		101	70-130			
Surrogate: d5-NEtFOSAA	174		ng/L	160		109	70-130			



FLAG/QUALIFIER SUMMARY

*	OC	result	is	outside o	f esta	blished	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

DL Method Detection Limit

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.



CERTIFICATIONS

Certified Analyses included in this Report

4,8-dioxa-3H-perfluorononanoic acid (ADONA)

Analyte Certifications

EPA 537.1 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorohexanoic acid (PFHxA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorohexanesulfonic acid (PFHxS)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluoroheptanoic acid (PFHpA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,NY,NH,PA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,NY,NH,PA
Perfluorononanoic acid (PFNA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorodecanoic acid (PFDA)	NH-P,VT-DW,NJ,CT,ME,PA
N-EtFOSAA	NH-P,VT-DW,NJ,CT,ME,PA
Perfluoroundecanoic acid (PFUnA)	NH-P,VT-DW,NJ,CT,ME,PA
N-MeFOSAA	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorododecanoic acid (PFDoA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorotridecanoic acid (PFTrDA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorotetradecanoic acid (PFTA)	NH-P,VT-DW,NJ,CT,ME,PA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,VT-DW,NJ,CT,ME,PA
11Cl-PF3OUdS (F53B Major)	NH-P,VT-DW,NJ,CT,ME,PA
9Cl-PF3ONS (F53B Minor)	NH-P,VT-DW,NJ,CT,ME,PA

The CON-TEST 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	06/30/2020
CT	Connecticut Department of Publile Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

NH-P,VT-DW,NJ,CT,ME,PA

Page

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IMPORTANT!

We are continuing to respond to the impact of COVID-19 around the world. See our latest updates. For COVID-19-related recipient closures, you can redirect packages, Ask FedEx, or contact the shipper.



770134572157 🖏



Delivered Tuesday 3/31/2020 at 9:25 am



DELIVERED

Signed for by: R.PIATRAS

GET STATUS UPDATES OBTAIN PROOF OF DELIVERY

FROM

PLAINVILLE, CT US

TO

EAST LONGMEADOW, MAIUS

Multiple-piece Shipment

2 Piece shipment

TRACKING NUMBER	SHIPPER CITY, STATE	SHIP DATE	STATUS	DELIVERY DATE	DESTINATION/RECIPIENT CITY, STATE
770134571025 (master)	WINDSOR LOCKS, CT	3/30/2020	Contract Constitution Constitut	3/31/2020	EAST LONGMEADOW, MA
770134572157	WINDSOR LOCKS, CT	3/30/2020	En 44 institut Constitution Con	3/31/2020	EAST LONGMEADOW, MA

Shipment Facts

IRACKING NUMBER	
770134572157	

WEIGHT 37 lbs / 16.78 kgs

TOTAL SHIPMENT WEIGHT 37 lbs / 16.78 kgs

PACKAGING Your Packaging

SERVICE

FedEx Priority Overnight

DELIVERED TOShipping/Receiving

TERMS Shipper MASTER TRACKING NUMBER 770134571025

770101071020

TOTAL PIECES

SHIPPER REFERENCE

18HG001.001

SPECIAL HANDLING SECTION STANDARD TRANSIT

② 3/31/2020 by 10.30 am

SHIP DATE

ACTUAL DELIVERY

Deliver Weekday

https://www.fedex.com/apps/fedextrack/?action=track&trackingnumber=770134572157&cntry_code=us&locale=en_US

Page 11 of 12

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



Doc# 277 Rev 5 2017

	ceipt Checklist -			_	_	-		ny False	
Λ	nent will be broug	ght to the at	tention of	the Client	- Sta	ate True	e or False		
Client 1000	eivo								
Received By	PAP		Date	3/	31	ک	Time	925	
How were the samples	In Cooler		No Cooler	f	_ 0	n Ice		No Ice	
received?	Direct from Samp	ling			An	nbient		Melted Ice	
Were samples within		By Gun#	2		Actu	ıal Tem	p-3.11	4.	
Temperature? 2-6°C		By Blank #			Actu	ıal Tem	D -		
Was Custody S	eal Intact?	1114	We	re Sample			***************************************	ΛΑ	
Was COC Relin				Chain Ag					
	leaking/loose caps	on any sam	•	£	,				
Is COC in ink/ Legible?		51,7 S1,7 S.S1		noles rece	- ived v	within h	olding time?		
Did COC include all	Client	1	Analysis	T	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		er Name		
pertinent Information?	Project	7	ID's	T	Co		Dates/Times		
Are Sample labels fille				······································	-				
Are there Lab to Filters		<u>E</u>		Who wa	s not	ified?			
Are there Rushes?		F		Who wa			•		
Are there Short Holds?		6		Who wa	s not	ified?		······	
Is there enough Volume	∍?								
Is there Headspace wh				MS/MSD?	, ,	7		_	gartificação e e
Proper Media/Containe			•	ls splitting	sam	ples rec	uired?	+	
Were trip blanks receive		· · · · · ·		On COC?		F			
Do all samples have the		M	Acid		-	elekti	Base		
Vials #	Containers:	#				į.			#
Unp-	1 Liter Amb.		1 Liter	Plastic			16 oz	Amb.	
HCL-	500 mL Amb.		500 mL	Plastic			8oz An	nb/Clear	
Meoh-	250 mL Amb.		250 mL	Plastic		2	4oz An	nb/Clear	
Bisulfate-	Flashpoint		Col./Ba					nb/Clear	
DI-	Other Glass		Other I				En	core	
Thiosulfate-	SOC Kit		Plastic				Frozen:		
Sulfuric-	Perchlorate		Ziple	ock					
			Unused I	ledia					
Vials #	Gontainers	- #				}			-#
Unp-	1 Liter Amb.		1 Liter	************************				z Amb.	
HCL-	500 mL Amb.		500 mL					nb/Clear	
Meoh-	250 mL Amb.		250 mL					nb/Clear	
Bisulfate-	Col./Bacteria		Flash					nb/Clear	
DI-	Other Plastic		Other					core	
Thiosulfate- Sulfuric-	SOC Kit		Plastic				Frozen:		
Comments:	Perchlorate		Ziplo	оск	!				
Comments.									
									l l



April 20, 2020

John Bondos Loureiro Engineering Associates 100 Northwest Drive Plainville, CT 06062

Project Location: Mystic, CT

Client Job Number:

Project Number: 18HG001.001

Laboratory Work Order Number: 20D0461

Enclosed are results of analyses for samples received by the laboratory on April 10, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kaitlyn A. Feliciano Project Manager

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Loureiro Engineering Associates

100 Northwest Drive Plainville, CT 06062

ATTN: John Bondos

REPORT DATE: 4/20/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 18HG001.001

ANALYTICAL SUMMARY

WORK ORDER NUMBER:

20D0461

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

PROJECT LOCATION: Mystic, CT

FIELD SAMPLE # LAB ID: MATRIX SAMPLE DESCRIPTION TEST SUB LAB

1401818 20D0461-01 Drinking Water EPA 537.1



CASE NARRATIVE SUMMARY

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

The results of analyses reported only relate to samples submitted to the Con-Test 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.

Tod E. Kopyscinski Laboratory Director



Sample Description:

Work Order: 20D0461

Project Location: Mystic, CT Date Received: 4/10/2020 **Field Sample #: 1401818**

Sample #: 1401818 Sampled: 4/9/2020 09:00

Sample ID: 20D0461-01
Sample Matrix: Drinking Water

Sample Matrix: Drinking Water Semivolatile Organic Compounds by - LC/MS-MS										
			MCL/SMCL					Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	DF	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:00	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:00	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:00	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:00	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:00	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:00	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:00	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:00	BLM
N-EtFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:00	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:00	BLM
N-MeFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:00	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:00	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:00	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:00	BLM
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:00	BLM
11Cl-PF3OUdS (F53B Major)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:00	BLM
9Cl-PF3ONS (F53B Minor)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:00	BLM
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 14:00	BLM
Surrogates		% Recovery	Recovery	Limits		Flag/Qual				
13C-PFHxA		80.2	70-1	30					4/15/20 14:00	
M3HFPO-DA		77.6	70-1	30					4/15/20 14:00	
13C-PFDA		84.7	70-1	30					4/15/20 14:00	
d5-NEtFOSAA		101	70-1	30					4/15/20 14:00	



Sample Extraction Data

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20D0461-01 [1401818]	B256145	250	1.00	04/13/20



QUALITY CONTROL

Semivolatile Organic Compounds by - LC/MS-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B256145 - EPA 537.1										
Blank (B256145-BLK1)				Prepared: 04	1/13/20 Analy	yzed: 04/15/2	20			
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
erfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
erfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
erfluorononanoic acid (PFNA)	ND	2.0	ng/L							
erfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
I-EtFOSAA	ND	2.0	ng/L							
erfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
-MeFOSAA	ND	2.0	ng/L							
erfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
erfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
lexafluoropropylene oxide dimer acid HFPO-DA)	ND	2.0	ng/L							
1Cl-PF3OUdS (F53B Major)	ND	2.0	ng/L							
Cl-PF3ONS (F53B Minor)	ND	2.0	ng/L							
8-dioxa-3H-perfluorononanoic acid ADONA)	ND	2.0	ng/L							
urrogate: 13C-PFHxA	36.3		ng/L	40.0		90.8	70-130			
urrogate: M3HFPO-DA	35.5		ng/L	40.0		88.9	70-130			
urrogate: 13C-PFDA	36.8		ng/L	40.0		91.9	70-130			
urrogate: d5-NEtFOSAA	173		ng/L	160		108	70-130			
LCS (B256145-BS1)				Prepared: 04	1/13/20 Analy	yzed: 04/15/2	20			
erfluorobutanesulfonic acid (PFBS)	7.80	2.0	ng/L	8.85		88.2	70-130			
erfluorohexanoic acid (PFHxA)	8.65	2.0	ng/L	10.0		86.5	70-130			
erfluorohexanesulfonic acid (PFHxS)	8.45	2.0	ng/L	9.10		92.8	70-130			
erfluoroheptanoic acid (PFHpA)	9.09	2.0	ng/L	10.0		90.9	70-130			
erfluorooctanoic acid (PFOA)	9.28	2.0	ng/L	10.0		92.8	70-130			
erfluorooctanesulfonic acid (PFOS)	8.20	2.0	ng/L	9.25		88.6	70-130			
erfluorononanoic acid (PFNA)	9.35	2.0	ng/L	10.0		93.5	70-130			
erfluorodecanoic acid (PFDA)	9.44	2.0	ng/L	10.0		94.4	70-130			
I-EtFOSAA	12.4	2.0	ng/L	10.0		124	70-130			
erfluoroundecanoic acid (PFUnA)	9.34	2.0	ng/L	10.0		93.4	70-130			
I-MeFOSAA	10.7	2.0	ng/L	10.0		107	70-130			
erfluorododecanoic acid (PFDoA)	9.46	2.0	ng/L	10.0		94.6	70-130			
erfluorotridecanoic acid (PFTrDA)	9.36	2.0	ng/L	10.0		93.6	70-130			
erfluorotetradecanoic acid (PFTA)	8.67	2.0	ng/L	10.0		86.7	70-130			
(exafluoropropylene oxide dimer acid HFPO-DA)	7.62	2.0	ng/L	10.0		76.2	70-130			
1Cl-PF3OUdS (F53B Major)	6.87	2.0	ng/L	9.40		73.1	70-130			
Cl-PF3ONS (F53B Minor)	8.38	2.0	ng/L	9.30		90.1	70-130			
,8-dioxa-3H-perfluorononanoic acid ADONA)	7.82	2.0	ng/L	10.0		78.2	70-130			
urrogate: 13C-PFHxA	31.4		ng/L	40.0		78.4	70-130			
urrogate: M3HFPO-DA	30.4		ng/L	40.0		76.0	70-130			
urrogate: 13C-PFDA	32.8		ng/L	40.0		82.1	70-130			
Surrogate: d5-NEtFOSAA	148		ng/L	160		92.6	70-130			



FLAG/QUALIFIER SUMMARY

*	OC result	is or	itside of	establishe	d limits.
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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

DL Method Detection Limit

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.



CERTIFICATIONS

Certified Analyses included in this Report

4,8-dioxa-3H-perfluorononanoic acid (ADONA)

Analyte Certifications

EPA 537.1 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorohexanoic acid (PFHxA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorohexanesulfonic acid (PFHxS)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluoroheptanoic acid (PFHpA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,NY,NH,PA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,NY,NH,PA
Perfluorononanoic acid (PFNA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorodecanoic acid (PFDA)	NH-P,VT-DW,NJ,CT,ME,PA
N-EtFOSAA	NH-P,VT-DW,NJ,CT,ME,PA
Perfluoroundecanoic acid (PFUnA)	NH-P,VT-DW,NJ,CT,ME,PA
N-MeFOSAA	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorododecanoic acid (PFDoA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorotridecanoic acid (PFTrDA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorotetradecanoic acid (PFTA)	NH-P,VT-DW,NJ,CT,ME,PA
Hexafluoropropylene oxide dimer acid (HFPO-DA)	NH-P,VT-DW,NJ,CT,ME,PA
11Cl-PF3OUdS (F53B Major)	NH-P,VT-DW,NJ,CT,ME,PA
9Cl-PF3ONS (F53B Minor)	NH-P,VT-DW,NJ,CT,ME,PA

The CON-TEST 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	06/30/2020
CT	Connecticut Department of Publile Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2021
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2021
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

NH-P,VT-DW,NJ,CT,ME,PA

Table of Contents Prepackaged Cooler? Y / N missing samples from prepacked Glassware in freezer? Y / N *Contest is not responsible for Test values your partnership on each project and will try to assist with missing information, but will not b Chain of Custody is a legal document that must be complete and accurate and is used to determine whal analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con Glassware in the fridge? Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The ² Preservation Codes: I = Iced H = HCL. M = Methanol N = Nitric Acid Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water Total Number Of: X = Sodium Hydroxide T = Sodium A = Air S = Soil SL = Sludge SOL = Solid O = Other (please S = Sulfuric Acid
B = Sodium Bisulfate 0 = Other (please Non Soxhiet PCB ONLY N/X coolers Soxhiet Preservation Code BACTERIA Page of VIALS GLASS PLASTIC ENCORE Thiosulfate define) define) possible sample concentration within the Conc H - High; M - Medium; L - Low; C - Clean; U -Please use the following codes to indicate MELAC and Allianizati, the Accredited Chromatogram

AIHA-LAP,LLC AIHA-LAP, LLC Code column above: ANALYSIS REQUESTED held accountable. Doc # 381 Rev 2_06262019 MCP Certification Form Required RCP Certification Form Required CT RCP Required MA MCP Require MA State DW Required 1225 SHAG X 39 Spruce Street East Longmeadow, MA 01028 ENCORE PFAS preserved with Irizma Conc.Code VIALS GLASS PLASTIC BACTERIA EXCEL Field Filtered Field Filtered Lab to Filter Lab to Fitter in bondos @ lovre iro. com School MWRA MBTA CHAIN OF CUSTODY RECORD 0 0 0 0 X http://www.contestlabs.com Municipality Brownfield Due Date: Matrix Code 10-Day 3-Day Egus GISME 4-Day COMP/GRAB CLP Like Data Pkg Required: Jan) LEA PFAS 10-Day (std) Government Date/Time mail To: Ending 3 ax To #: Federal Format: Other: 2-Day '-Day -Day Client Comments: City Project Entity Beginning Date/Time Dorking water Email: info@contestlabs.com 7202 -01-h Client Sample ID / Description Phone: 413-525-2332 Fax: 413-525-6405 Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Northwest Drive DOUTCITO 10001 John Bridgs の行り 932 Spansfilly 5 Deboute Con-Test Quote Name/Number: elinquished by: (signature) elinquished by: (signature) Relinquished by: (signature) Relinquished by: (signature) eceived by: (signature) Received by: (signature) Received by: (signature) Received by: (signature) 3 Work Order# 300 Con-Test Invoice Recipient: Project Manager: Project Location: Project Number: ab Comments: Sampled By: Address: Phone:

Page

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IMPORTANT!

We are continuing to respond to the impact of COVID-19 around the world. <u>See our latest updates.</u> For COVID-19-related recipient closures, you can <u>redirect packages</u>, <u>Ask FedEx</u>, or contact the shipper.







Delivered Friday 4/10/2020 at 9:32 am



DELIVERED

Signed for by: R.PIETRAIS

GET STATUS UPDATES OBTAIN PROOF OF DELIVERY

		0271111711201	or passivanti		
	FROM PLAINVILLE, CT US			TO EASTLONGMEADOV	V, MA US
Multiple-piece	e Shipment	2 Piece	shipment	A CONTRACTOR OF THE PROPERTY O	
TRACKING NUMBER	SHIPPER CITY, STATE	SHIP DATE	STATUS	DELIVERY DATE	DESTINATION/RECIPIENT CITY, STATE
770208394883 (master)	WINDSOR LOCKS, CT	4/09/2020	Enclosed Science & Community	4/10/2020	EAST LONGMEADOW, MA
770208394894	WINDSOR LOCKS, CT	4/09/2020		4/10/2020	EAST LONGMEADOW, MA

Shipment Facts

TRACKING NUMBER 770208394894	SERVICE FedEx Priority Overnight	MASTER TRACKING NUMBER 770208394883
WEIGHT 25 lbs / 11.34 kgs	DELIVERED TO Shipping/Receiving	TOTAL PIECES 2
TOTAL SHIPMENT WEIGHT 25 lbs / 11.34 kgs	TERMS Shipper	SHIPPER REFERENCE 18HG001.001
PACKAGING Your Packaging	SPECIAL HANDLING SECTION Deliver Weekday	STANDARD TRANSIT (?) 4/10/2020 by 10:30 am

SHIP DATE

ACTUAL DELIVERY

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



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 Coclett	. 0							
Received By	R		Date	4-10-20	Z©	Time	932	
How were the sample	s In Cooler	T	No Cooler		On Ice	T	No Ice	
received?	Direct from Sam				Ambient	•	Melted Ice	
	Direct from Carry	•					- **	
Were samples withir					Actual I em	p-5,4,2	6	
Temperature? 2-6°C		By Blank #			Actual Tem			
Was Custody			We	re Sample	s Tampered	with?	r	
Was COC Re	2011-0000 B 10-000-0000-000-000-000-000-000-000-000			Chain Ag	ree With Sai	mples?	T	
Are there broker	/leaking/loose caps	on any sam	ples?	F				
Is COC in ink/ Legible	?	_	Were san	nples recei	ved within he	olding time?	ī	
Did COC include all			Analysis	7	Sample	er Name	T	
pertinent Information			ID's	T	Collection	Dates/Times	7	
Are Sample labels fille		<u> </u>						
Are there Lab to Filters	s?	F		Who was	notified?	5960FP 773550		
Are there Rushes?		F		Who was	notified?			
Are there Short Holds'		F		Who was	notified?			
ls there enough Volum	ie?	Ę						
is there Headspace wi	nere applicable?	ມຄ		MS/MSD?	Fall and a			6 22 G
Proper Media/Containe	ers Used?			s splitting	samples req	uired?	F	*
Were trip blanks receiv		- F	, be	On COC?	F			
Do all samples have th	e proper pH?	NA	Acid			Base		
Vials #	(Papplialners)							
Unp-	1 Liter Amb.		1 Liter F	Plastic		16 oz	Amb.	
HCL-	500 mL Amb.		500 mL	Plastic		8oz Am		
Meoh-	250 mL Amb.		250 mL	Plastic	1	4oz Am	b/Clear	- 10 Marian
Bisulfate-	Flashpoint		Col./Ba	cteria		2oz Am	b/Clear	
DI-	Other Glass		Other P	lastic		Enc	ore	
Thiosulfate-	SOC Kit		Plastic	Bag		Frozen:		
Sulfuric-	Perchlorate		Ziplo	ck				
			Unused M	ladia				
itals #	(Montainmen)	# 1			4 1			
Jnp-	1 Liter Amb.		1 Liter F	lastic		16 oz /	Amb.	
ICL-	500 mL Amb.		500 mL i			8oz Ami		
Meoh-	250 mL Amb.		250 mL l			4oz Amt		
Bisulfate-	Col./Bacteria		Flashp	oint		2oz Amb		
DI-	Other Plastic		Other C			Enco		
hiosulfate-	SOC Kit		Plastic	Bag		Frozen:		
Sulfuric-	Perchlorate		Ziplo	ck				
Comments:								

cinited volume