

# Commonwealth of Massachusetts Executive Office of Energy & Environmental Affairs

# Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker Governor Matthew A. Beaton Secretary

Karyn E. Polito Lieutenant Governor Martin Suuberg Commissioner

January 3, 2018

Mayor Brian P. Sullivan 59 Court Street - Room 202 Westfield, MA 01085

RE:

MassDEP Private Well Sampling- PFCs

RTN: 1-20093

Dear Mayor Sullivan,

In a collaborative effort to work with both the City of Westfield and the Barnes Air National Guard, MassDEP has implemented a phased approach to investigate whether private wells have been affected by a release of perflourinated chemicals (PFCs) to the groundwater. To date, we have sampled seventy-one private wells and have issued ninety access agreement letters. MassDEP is continuing to call individuals who have received access agreement letters to schedule sampling. MassDEP resampled residences where the Department installed a point of entry carbon filtration system to ensure the systems are working properly to eliminate any health risk. As additional data is received MassDEP will review the results and adjust the sampling locations as needed. EPA has established a Lifetime Health Advisory level at 70 parts per trillion (ppt). All results we have received to date are summarized in a table on Page 2 of this letter. The results added to the table in this round indicate the following:

Two of the sampling results indicated PFCs were not detected above the laboratory reporting level, which is 2 ppt. In the table this is identified as ND for Non Detect.

One of the sampling results, a resample due to laboratory quality control concerns on the original sample, had detections of PFCs; however, the results were well below the lifetime EPA Health Advisory of 70 ppt.

The EPA advisory is specifically for two PFC compounds which have been the most extensively used and studied, PFOA (perfluorooctanoic acid) and PFOS (perfluorooctane sulfonic acid) which together or individually exceed 70 ppt. The Health Advisory offers a margin of protection from a lifetime of exposure for all individuals from adverse health effects resulting from exposure from these compounds in drinking water.

Below are the laboratory results of the seventy-one private wells sampled to date:

Address	Date Sampled	Laboratory Results for PFOA + PFOS (70 ppt Advisory)			
296 Buck Pond Road	12/7/2017	ND			
1830 East Mountain Road	12/7/2017	ND			
31 Schumann Drive (resample)	12/7/2017	19 ppt			
52 Ridge Trail Road	11/7/2017	8 ppt			
101 Ridge Trail Road	11/7/2017	ND			
31 Schumann Drive	11/7/2017	16 ppt			
12 Ivy Avenue	11/7/2017	16 ppt			
1768 East Mountain Road	11/7/2017	3 ppt			
89 Ridge Trail Road	11/7/2017	8 ppt			
77 Ridge Trail Road	11/7/2017	3 ppt			
1948 East Mountain Road	11/7/2017	ND			
240 Buck Pond Road	11/7/2017	ND			
30 Hopkins Road	11/7/2017	ND .			
287 Buck Pond Road	11/7/2017	14 ppt			
1889 East Mountain Road	9/26/2017	ND			
1903 East Mountain Road	9/26/2017	ND			
260 Buck Pond Road	8/28/2017	3ppt			
1880 East Mountain Road	8/28/2017	ND			
22 Indian Ridge Road	8/28/2017	8ppt			
33 Indian Ridge Road	8/28/2017	8ppt			
247 Buck Pond Road	8/8/2017	11ppt			
40 Indian Ridge	8/8/2017	9 ppt			
244 Buck Pond Road	8/8/2017	6 ppt			
1343 Southampton Road	8/8/2017	10 ppt			
678 North Road	8/8/2017	10 ppt			
30 Indian Ridge Road	8/8/2017	6 ppt			
39 Schumann Drive	6/27/2017	ND			
235 Buck Pond Road	6/27/2017	3 ppt			
253 Buck Pond Road	6/27/2017	ND			
277 Buck Pond Road	6/27/2017	3 ppt			
229 Buck Pond Road	6/24/2017	13 ppt			
1551 East Mountain	6/14/2017	6 ppt			
43 Indian Ridge	6/14/2017	8 ppt			
1545 East Mountain Road	6/14/2017	4 ppt			
1358 East Mountain	6/14/2017	ND			
14 Indian Ridge Road	6/14/2017	ND			
1534 East Mountain	6/14/2017	3 ppt			
369 Pochassic Road	6/14/2017	ND			
1557 East Mountain	6/14/2017	6 ppt			
5 Tina Lane	6/9/2017	ND			
20 Old Holyoke Rd	6/9/2017	8 ppt			
1720 East Mountain	6/9/2017	6 ppt			
1331 East Mountain	6/9/2017	2 ppt			
39 Indian Ridge	6/9/2017	ND			

19 Indian Ridge	6/9/2017	. 6 ppt
36 Indian Ridge Rd	6/9/2017	8 ppt
1355 East Mountain	6/9/2017	ND
1588 East Mountain	6/9/2017	7 ppt
281 Lower Sandy Hill Rd	6/2/2017	141 ppt
289 Lower Sandy Hill Rd	6/2/2017	787 ppt
2 Tina Lane	5/19/2017	ND
20 Hillcrest Circle	5/19/2017	ND
539 North Road	5/18/2017	ND
1295 Southampton	5/18/2017	ND
21 Hillcrest Circle	5/18/2017	ND ·
285 Lower Sandy Hill Road	5/10/2017	864 ppt
232 Buck Pond Road	5/10/2017	19 ppt
27 Indian Ridge Road	5/10/2017	18 ppt
1214 East Mountain Road	5/10/2017	17 ppt
16 Mockingbird Lane	5/10/2017	ND ·
294 Union Street	5/10/2017	ND
533 North Road	5/10/2017	ND
42 Old Holyoke Road	5/10/2017	ND
43 Hillcrest Circle	5/10/2017	ND
23 Deveno Lane	4/28/2017	ND
95 Old Holyoke Road	. 4/28/2017.	ND
20 Ridge Trail Road	4/28/2017	ND
1524 East Mountain Road	4/28/2017	ND
2050 East Mountain Road	4/28/2017	ND
34 Lewis Road	4/28/2017	ND
1850 East Mountain Road	4/28/2017	ND
1749 East Mountain Road	4/28/2017	ND

Please note that this table includes all of the sampling results to date. The private well owners have been notified of the results prior the issuance of this letter and have been mailed copies of their laboratory results. Based on the results of the recent site assessment work performed at Barnes ANG Base and assessment completed by the City of Westfield, the Department is in the process of transitioning all response actions associated with the assessment and mitigation of the PFCs in the private wells to Barnes ANG Base. A copy of all of the laboratory results is accessible through the City of Westfield's website and can be viewed http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=1-0020093.

If you have any questions regarding this letter please contact me at (413) 755-2213 or Eva Tor at 413-755-2295.

Sincerely,

Michael Gorski Regional Director

3 of 3

Ecc: Barnes ANG - Colonel James Suhr

Colonel Peter Green-John Richardson

Barnes Aquifer Protection Committee - Patty Gambarini

Westfield DPW - David Billips

Westfield Health Department - Joseph Rouse Westfield Councilor Mary Ann Babinski

Massachusetts Department of Public Health - Dr. Marc Nascarella



# Commonwealth of Massachusetts Executive Office of Energy & Environmental Affairs

### Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker Governor

Karyn E. Polito Lieutenant Governor Matthew A. Beaton Secretary

> Martin Suuberg Commissioner

January 3, 2018

Nancy Pasquini 296 Buck Pond Road Westfield, MA 01085

RE:

Notice of Environmental Sampling

296 Buck Pond Road

Westfield Private Well Sampling

Dear Ms. Pasquini:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on December 7, 2017. The purpose of the sampling was to investigate whether your well has been affected by a release of perfluorinated compounds (PFCs) to local groundwater. The sample was sent to a certified laboratory and analyzed for PFC compounds by modified United States Protection Agency (EPA) Method 317.1. EPA has established a Lifetime Health Advisory level at 70 parts per trillion (ppt), for two specific compounds which have been the most extensively used and studied, PFOA (perfluorooctanoic acid) and PFOS (perfluorooctane sulfonic acid). If both PFOA and PFOS are identified in drinking water the combined concentrations are compared to the 70 ppt health advisory level. The Health Advisory offers a margin of protection from a lifetime of exposure to PFOA and PFOS for all individuals from adverse health effects resulting from exposure from PFOA and PFOS in drinking water. <sup>1</sup>

The sampling result indicated that PFOA and PFOS compounds were not detected in the drinking water sample above the laboratory reporting limit of 2 ppt. Based on this data, no further action, including additional sampling and/or mitigation measures (i.e. bottled water) are required at this time. However, additional sampling may be required in the future. The Department thanks you for granting access to your property.

Notice of Environmental Sampling 296 Buck Pond Road Westfield, RTN: 1-20093 Page 2 of 2

If you have any questions pertaining to this Notice of Environmental Sampling or with the informationn contained within, please feel free to contact David Bachand at (413) 755-2221 or Cynthia Pawloski at (413) 755-2247.

Sincerely,

Eva Tor

Deputy Regional Director Bureau of Waste Site Cleanup

Attachments: Notice of Environmental Sampling (BWSC-123)
Laboratory Report

ec: Mayor, City of Westfield Barnes ANG-John Richardson

Barnes Aquifer Protection Committee

Westfield DPW – David Billips Westfield Health Department

Westfield Councilor Mary Ann Babinski

Dr. Marc A. Nascarella, Ph.D/DPH

cc:

Denise Andler, DEP WERO Data Entry: FOLOFF, FOLFLD

Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

Telephone: (413) 784-1100

#### **Massachusetts Department of Environmental Protection** Bureau of Waste Site Cleanup

#### **BWSC123**

This Notice is Related to: Release Tracking Number

1	-	200
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#### NOTICE OF ENVIRONMENTAL SAMPLING

93 As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan A. The address of the disposal site related to this Notice and Release Tracking Number (provided above): 1. Street Address: 175 Falcon Drive City/Town: Westfield 01080 Zip Code: B. This notice is being provided to the following party: 1. Name: Nancy Pasquini 2. Street Address: 296 Buck Pond Road City/Town: Westfield 01085 Zip Code: C. This notice is being given to inform its recipient (the party listed in Section B): 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice. 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice. 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.) D. Location of the property where the environmental sampling will be/has been conducted: 1. Street Address: 296 Buck Pond Road City/Town: Westfield 01085 Zip Code: 2. MCP phase of work during which the sampling will be/has been conducted: Phase III Feasibility Evaluation Immediate Response Action Phase IV Remedy Implementation Plan Release Abatement Measure ☐ Phase V/Remedy Operation Status Utility-related Abatement Measure Post-Temporary Solution Operation, Maintenance and Monitoring Phase I Initial Site Investigation Phase II Comprehensive Site Assessment ☐ Other (specify) 3. Description of property where sampling will be/has been conducted: ☐ commercial industrial school/playground Other ✓ residential 4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice. Drinking water samples were collected from the private well located at the above-referenced property and analyzed or PFAS via EPA Method 537.1.1. E. Contact information related to the party providing this notice: MA Department of Environmental Protection Contact Name: Street Address: 436 Dwight Street City/Town: Springfield, MA 01103 Zip Code:

Email: david.bachand.jr@state.ma.us



### Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

#### **BWSC123**

This Notice is Related to: Release Tracking Number

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20093

#### NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

#### MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

### THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

#### PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

**Section C** on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

**Section D** on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

#### FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <a href="http://www.mass.gov/eea/agencies/massdep/cleanup">http://www.mass.gov/eea/agencies/massdep/cleanup</a>. For more information regarding this notice, you may contact the party listed in Section E on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <a href="http://public.dep.state.ma.us/SearchableSites2/Search.aspx">http://public.dep.state.ma.us/SearchableSites2/Search.aspx</a> to view site-specific files on-line or <a href="http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html">http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html</a> if you would like to make an appointment to see these files in person. Please reference the Release Tracking Number listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Revised: 5/30/2014 Page 2 of 2



December 14, 2017

Rob Smith ATC Group Services LLC - West Springfield 73 Williams Franks Drive West Springfield, MA 01089

Project Location: 296 Buck Pond Rd., Westfield

Client Job Number:

Project Number: 183EM00170

Laboratory Work Order Number: 17L0340

Emily Snyd

Enclosed are results of analyses for samples received by the laboratory on December 7, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Emily E. Snyder Project Manager

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ATC Group Services LLC - West Springfield 73 Williams Franks Drive West Springfield, MA 01089 ATTN: Rob Smith

PURCHASE ORDER NUMBER:

REPORT DATE: 12/14/2017

PROJECT NUMBER:

183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER:

17L0340

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

PROJECT LOCATION:

296 Buck Pond Rd., Westfield

FIELD SAMPLE#	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Trip Blank	17L0340-01	Drinking Water		EPA 537	
296 Buck Pond-1	17L0340-02	Drinking Water		EPA 537	



#### 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.

Daren J. Damboragian Director of Operations



Project Location: 296 Buck Pond Rd., Westfield

Sample Description:

Work Order: 17L0340

Date Received: 12/7/2017 Field Sample #: Trip Blank

Sampled: 12/7/2017 16:15

Sample ID: 17L0340-01

Sample Matrix: Drinking Water

Sample Matrix: Drinking Water										<del>.</del>
			V	Iiscellaneous Orī	ganie Analys	es				
			MCL/SMC	EL.				Date	Date/Time	
Analyte	Results	RL	MA ORSO	- Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 16:35	BLM
# Perfluorohexanoic acid (PFHxA)	5.0	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 16:35	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 16;35	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2 .	ng/L	1		EPA 537	12/11/17	12/12/17 16:35	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 16:35	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1	-	EPA 537	12/11/17	12/12/17 16:35	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 16:35	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 16:35	BLM
NMcFOSAA	ND	2.0		ng/L	1	•	EPA 537	12/11/17	12/12/17 16:35	BLM
Perfluoroundecanoic acid (PFUnA)	ND ·	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 16:35	BLM
NEtFOSAA	. ND	2.0	1 .	ng/L	1		EPA 537	12/11/17	12/12/17 16:35	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	. 1	,	EPA 537	12/11/17	12/12/17 16:35	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 16:35	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 16:35	BLM
Surrogates		% Re	covery	Recovery Limits	3	Flag/Qual				
13C-PFHxA		85.0		70-130					12/12/17 16:35	
13C-PFDA		78. <del>9</del>	_	70-130	-				12/12/17 16:35	
		_	•						104045 1605	



Project Location: 296 Buck Pond Rd., Westfield

Sample Description:

Work Order: 17L0340

Date Received: 12/7/2017

Field Sample #: 296 Buck Pond-1

Sampled: 12/7/2017 10:56

Sample ID: 17L0340-02 Sample Matrix: Drinking Water

•			N	Aiscellaneous Or	ganic Analys	es				
. Analyte	Results	RL	MCL/SMC		Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
# Perfluorobutanesulfonic acid (PFBS)	4.3	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 20:02	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	. 1		EPA 537	12/11/17	12/12/17 20:02	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2,0	2	ng/L	1		EPA 537	12/11/17	12/12/17 20:02	BLM
# Perfluorohexanesulfonic acid (PFHxS)	2,6	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 20:02	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 20:02	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 20:02	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 20:02	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2.	ng/L	1		EPA 537	12/11/17	12/12/17 20:02	BLM
NMcFOSAA	ND	2.0		ng/L	1		EPA 537	12/11/17	12/12/17 20:02	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	. 2	ng/L	1		EPA 537	12/11/17	12/12/17 20:02	BLM
NEtFOSAA	ND	2.0		ng/L	i		EPA 537	12/11/17	12/12/17 20:02	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 20:02	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 20:02	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2 ·	ng/L	i		. EPA 537	12/11/17	12/12/17 20:02	BLM
Surrogates		% Re	covery	Recovery Limits	š	Flag/Qual				
13C-PFHxA		125		70-130					12/12/17 20:02	
13C-PFDA		91.2		70-130		·			12/12/17 20:02	
d5-NEIFOSAA		88.9		70-130					12/12/17 20:02	



#### Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	. Batch	Initial [mL]	Final [mL]	Date	,
17L0340-01 [Trip Blank]	B192943	250	1.00	12/11/17	
17L0340-02 [296 Buck Pond-1]	B192943	250	1.00	12/11/17	



#### QUALITY CONTROL

#### Miscelianeous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
latch B192943 - EPA 537			3-1-21							
Blank (B192943-BLK1)				Prepared: 12	2/11/17 Anal	yzed: 12/12/	17		•	
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L						•	
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L					÷		
Perfluorohexanesulfonic acid (PFHxS)	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							1
Perfluorodecanoic acid (PFDA)	ND	2,0	ng/L							
MeFOSAA	ND	2.0	ng/L		'					
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NECFOSAA	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							
urrogate: 13C-PFHxA	35.8		ng/L	40.0		89.5	70-130			
surrogate; 13C-PFDA	29.2		ng/L	40.0		72.9	70-130			
urrogate: d5-NEtFOSAA	135	•	ng/L	160		84,7	70-130			
.CS (B192943-BS1)	•			Prepared: 12	2/11/17 Anal	yzed: 12/12/	17			
Perfluorobutanesulfonic acid (PFBS)	3.27	2.0	ng/L	3,54		92.3	50-150			
erfluorohexanoic acid (PFHxA)	2.62	2.0	ng/L	4.00		65.5	50-150			
Perfluoroheptanoic acid (PFHpA)	2.70	2,0	ng/L	4.00		67.6	50-150			
erfluorohexanesulfonic acid (PFHxS)	3.94	2.0	ng/L	3,64		108	50-150			
Perfluorooctanoic acid (PFOA)	2.93	2,0	ng/L	4.00		73.3	50-150			
Perfluorooctanesulfonic acid (PFOS)	2.59	2.0	ng/L	3.70		70.0	50-150			
erfluorononanoic acid (PFNA)	2.89	2.0	ng/L	4.00		72.2	50-150			
erfluorodecanoic acid (PFDA)	. 2.22	2.0	ng/L	4.00		55.5	50-150		ř	
IMeFOSAA	2.38	2.0	ng/L	4.00		59.5	50-150			
Perfluoroundecanoic acid (PFUnA)	2.44	2.0	ng/L	4.00		60.9	50-150			
VEtFOSAA	2.97	2,0	ng/L	4.00		74.3	50-150			
erfluorododecanoic acid (PFDoA)	2,32	2.0	ng/L	4.00		58.1	50-150			
Perfluorotridecanoic acid (PFTrDA)	2.09	2.0	ng/L	4.00		52.3	50-150			
Perfluorotetradecanoic acid (PFTA)	. 2,15	2.0	ng/L	4.00		53.7	50-150			
urrogate: 13C-PFHxA	38.8		ng/L	40.0	· · · · · · · · · · · · · · · · · · ·	97.1	70-130			
urrogate: 13C-PFDA	28.1		ng/L	40.0		70.2	70-130			
Surrogate: d5-NEtFOSAA	143		ng/L	160		89.5	70-130			



#### 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
<b>ACL</b>	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 537 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME,RI
Perfluorohexanoic acid (PFHxA)	VT-DW,ME,RI
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME,RI
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME,RI
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,R
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,R
Perfluorononanoic acid (PFNA)	VT-DW,ME,RI
Perfluorodecanoic acid (PFDA)	VT-DW,ME,RI
NMcFOSAA	VT-DW,RI
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME,RI
NEtFOSAA	VT-DW,RI
Perfluorododecanoic acid (PFDoA)	VŤ-DW,ME,RI
Perfluorotridecanoic acid (PFTrDA)	VT-DW,ME,RI
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME,RI

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

Code	Description	Number	Expires
АПА	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
МА	Massachusetts DEP	M-MA100	06/30/2018
СТ	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

Га	hle	οf	Cor	nter	nts

Dissolved Metals Samples B≤ Sodium Bisulfate X = Sodium Hydroxide 2 Preservation Codes ' <u>Matrix Codes:</u>
GW = Ground Water
WW = Waste Water
DW ≅ Drinking Water ³ <u>Container Codes:</u> A ≤ Amber Glass G = Glass P ≤ Plastic 5 = Summa Canister SOL = Sludge SOL = Solid O = Other (please Page \_\_1 \_\_ of \_\_\_1\_\_ 0 = Other (please O=Other (please Orthophosphate Sa Non Soxhlet PCB ONLY O Field Filtered r ≤ Tedlar Bag Sulfuric Acid Soxhlet N = Nithe Acid Preservation Code O Field Filtered H = HCL M = Methanol **ST** = Sterile V = Vial O Lab to Filter O Lab to Filter <sup>3</sup> Container Code ≡ Sodium Thiosultate TRIZMA # of Containers define derines define) Please use the following codes to indicate possible sample concentration CON-LESE Chromatogram www.contestlabs.com AIHA-LAP,LLC 39 Spruce Street East Longmeadow, MA 01028 H - High; M - Medium; L - Low; C - Clean; U - Unknown ANALYSIS REQUESTED within the Conc Code column above: Other Doc # 381 Rev 1\_03242017 WRTA r > × TOTAL As, Fe, HARDNESS, TOC MA MCP Required MCP Certification Form Required CT RCP Required RCP Certification Form Required z a School MWRA MA State DW Required MBTA Special Requirements 0 × × × × Δ **EPA METHOD 537** Matrix Cond Code Code  $\supset$  $\Rightarrow$  $\supset$ http://www.contestlabs.com CHAIN OF CUSTODY RECORD  $\Sigma$ Rush-Approval Required Ѯ ձ Municipality ձ Brownfield Requested Turnaround # CISMd 10-Day Data Delivery Gab EXCEL 3-Day 4-Day CLP Like Data Pkg Required: × × × Composite Detection Limit Requirements Due Date: 5-day TAT 回战 Government 
Federal 
City Ending Date/Time 17.0 10:S7 Email To: 9S:0) Format: Fax To #: 51.9 Other: EXTRACT & HOLD EPA Method 537: 296 Buck Pond Rd-field blank & 296 Buck Pond Rd-2 1-Day 2-Day Project Entity Beginning Date/Time 12/6/2017 12/7/2017 Other: 12/7/2017 12/7/2017 L) 73 William Franks Drive, West Springfield, MA Si Si 12/2/17 1530 Date/Time: Email: info@contestlabs.com Gient Sample ID // Description Phone: 413-525-2332 296 Buck Pond Rd - field blank Fax: 413-525-6405 296 Buck Pond Rd, Westfield 296 Buck Pond Rd, Westfield Date/Time: Date/Time: Date/Time: 11/11/21 Date/Time: Date/Time: RUN EPA Method 537: Trip Blank and 296 Buck Pond Rd-1 296 Buck Pond Rd - 2 296 Buck Pond Rd - 1 ATC Group Services Elizabeth O'Connor (413) 781-0070 얽 183EM00170 Rob Smith Trip blank Con-Test Quote Name/Number: HOLD As, Fe, Hardness, TOC Relinquished by: (signature) fquished by: (signature) iquished by: (signature) CON-LEST ecejved by:/(signature) \$4(8)216 ived by: (signature) ived by: (signature) Con-Test Work Orders Ō Invoice Recipient: Company Name: Project Location: Project Manager: Project Number; Project Name: Sampled By: comments: Address: Page 11 of 12

39 Spruce St.

East Longmeadow, MA. 01028

P: 413-525-2332 F: 413-525-6405



www.contestlabs.com

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	ATC	<u></u>						<del></del>	
Receiv	ed By	RIF		Date _	<u>  r 6ı</u>	1-7	Time	1530	
How were th	ne samples	In Cooler	7	No Cooler_		On Ice	<u> </u>	_ No Ice _	
recei	ved?	Direct from Samp	oling			Ambient		Melted Ice	
Were sam	alae wiihin		By Gun#	557		Actual Tem	p- 4.6	. د	
Temperatu		T	By Blank #			Actual Tem	p -		
	Custody S	eal Intact?	AN	Were		Tampered			
Was	COC Relin	quished?	T	Does	Chain Agr	ee With Sar	mples?	<u> </u>	
Are the	re broken/l	eaking/loose caps	on any sam	ples?	<u> </u>				
Is COC in in	k/ Legible?	T	_	Were samp	ples receiv		olding time?		**
Did COC i	nclude all	Client		Analysis _	Τ		er Name		
pertinent Inf	formation?	Project		ID's	<u></u>	Collection	Dates/Times	s	
Are Sample	labels filled	d out and legible?					-		
Are there La	b to Filters?	?	F		Who was	notified?			
Are there Ru	shes?		E		Who was	notified?			
Are there Sh	ort Holds?		F		Who was	notified?	· · · · · · · · · · · · · · · · · · ·		
Is there enou								•	
Is there Hea	dspace whe	ere applicable?	<del>F</del>		/IS/MSD?				
Proper Media	a/Container	s Used?	7	ls	s splittina s	samples req	uired?	<del>_</del>	
•								<u> </u>	
Were trip bla	inks receive	ed?		C	on COC?				
•	inks receive	ed?					Base	<u>LA</u>	
Were trip bla	nks receive es have the	ed? proper pH? Containers:		Acid	on coc?		Base	<u>LA</u>	1
Were trip bla Do all sampl VIAIS Unp-	nks receive es have the	ed? proper pH? <b>Containers</b> 1 Liter Amb.	-T	Acid	on COC?_	7	Base 16 o	z Amb.	71.
Were trip bla Do all sampl  Vials  Unp- HCL-	nks receive es have the	ed? proper pH? Containers 1 Liter Amb. 500 mL Amb.	***	Acid C Acid 1 1 Liter Pl 500 mL P	On COC?_ T lastic	<b>*</b>	Base 16 o 8oz Ar	nb/Clear	
Were trip bla Do all sampl VAIS Unp- HCL- Meoh-	nks receive es have the	ed? proper pH? Containers 1 Liter Amb. 500 mL Amb. 250 mL Amb.		Acid 1 Liter Pl 500 mL P 250 mL P	On COC?  Jastic Plastic	7	Base 16 o 8oz Ar 4oz Ar	nb/Clear nb/Clear	
Were trip bla Do all sampl  Vals  Unp- HCL- Meoh- Bisulfate-	nks receive es have the	ed? c proper pH? Containers 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria	#	Acid 1 Liter Pl 500 mL P 250 mL P	On COC?  Jastic Plastic Plastic oint	<b>*</b>	16 o 8oz Ar 4oz Ar 2oz Ar	nb/Clear nb/Clear nb/Clear	***
Were trip bla Do all sampl Vials Unp- HCL- Meoh- Bisulfate- DI-	nks receive es have the	ed?  proper pH?  Containers:  1 Liter Amb.  500 mL Amb.  250 mL Amb.  Col./Bacteria  Other Plastic		1 Liter Pf 500 mL P 250 mL P Flashpo	lastic Plastic Plastic oint	<b>*</b>	Base  16 o 8oz Ar 4oz Ar 2oz Ar	nb/Clear nb/Clear	
Were trip bla Do all sampl Vals Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate-	nks receive es have the	ed?  Gontaitiers  1 Liter Amb.  500 mL Amb.  250 mL Amb.  Col./Bacteria  Other Plastic  SOC Kit	<b>1</b>	1 Liter PI 500 mL P 250 mL P Flashpo Other G Plastic	lastic Plastic Plastic Plastic oint llass	<b>*</b>	16 o 8oz Ar 4oz Ar 2oz Ar	nb/Clear nb/Clear nb/Clear	T.
Were trip bla Do all sampl Vials Unp- HCL- Meoh- Bisulfate- DI-	nks receive es have the	ed?  proper pH?  Containers:  1 Liter Amb.  500 mL Amb.  250 mL Amb.  Col./Bacteria  Other Plastic		1 Liter Pl 500 mL P 250 mL P Flashpe Other G Plastic I Ziploc	Jastic Plastic Plastic Oint Bag	<b>*</b>	Base  16 o 8oz Ar 4oz Ar 2oz Ar	nb/Clear nb/Clear nb/Clear	
Were trip bla Do all sampl Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-	nks receive es have the	ed? Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit Perchlorate		1 Liter PI 500 mL P 250 mL P Flashpo Other G Plastic	Jastic Plastic Plastic Oint Bag	<b>*</b>	Base  16 o 8oz Ar 4oz Ar 2oz Ar	nb/Clear nb/Clear nb/Clear	<b>1</b>
Were trip bla Do all sampl VIALS Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-	nks receive es have the	ed?  Gontaitiers  1 Liter Amb.  500 mL Amb.  250 mL Amb.  Col./Bacteria  Other Plastic  SOC Kit  Perchlorate		1 Liter Pf 500 mL P 250 mL P Flashpo Other G Plastic I Ziploc	lastic Plastic Plastic Plastic oint llass Bag ck	<b>*</b>	Base  16 o 8oz Ar 4oz Ar 2oz Ar En Frozen:	mb/Clear mb/Clear mb/Clear ncore	
Were trip bla Do all sampl VIALS Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Unp-	nks receive es have the	Gontaitiers 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit Perchlorate 1 Liter Amb.		1 Liter Pl 500 mL P 250 mL P Flashpo Other G Plastic I Ziploc Unused Mi	lastic Plastic Plastic Plastic Plastic Plastic Static Plastic	<b>*</b>	Base  16 o  8oz Ar  4oz Ar  2oz Ar  En  Frozen:	mb/Clear mb/Clear mb/Clear mb/Clear acore	
Were trip bla Do all sampl  VAIS  Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-  Unp- HCL-	nks receive es have the	ed?  Gontaltiers  1 Liter Amb.  500 mL Amb.  250 mL Amb.  Col./Bacteria  Other Plastic  SOC Kit  Perchlorate  Centaltiers  1 Liter Amb.  500 mL Amb.		Acid  1 Liter Pl 500 mL P 250 mL P Flashpo Other G Plastic I Ziploc Unused Mi 1 Liter Pl 500 mL P	lastic Plastic Plastic Plastic Oint Plass Bag Ck Badia	<b>*</b>	Base  16 o  8oz Ar  4oz Ar  2oz Ar  En  Frozen:	mb/Clear mb/Clear mb/Clear ncore	
Were trip bla Do all sampl  VALS  Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-  Unp- HCL- Meoh-	nks receive es have the	ed?  Gontaiters:  1 Liter Amb.  500 mL Amb.  250 mL Amb.  Col./Bacteria  Other Plastic  SOC Kit  Perchlorate  1 Liter Amb.  500 mL Amb.  250 mL Amb.		1 Liter Pf 500 mL P 250 mL P Flashpe Other G Plastic I Ziploc Unused Me 1 Liter Pf 500 mL P 250 mL P	lastic Plastic Plastic Oint Bag Ck Rdia Plastic Plastic Plastic Plastic Plastic	<b>*</b>	16 o 8oz Ar 4oz Ar 2oz Ar En Frozen:	mb/Clear mb/Clear mb/Clear mb/Clear acore	
Were trip bla Do all sampl  Vials  Unp- HCL- Meoh- Bisulfate- Di- Thiosulfate- Sulfuric-  Vials  Unp- HCL- Meoh- Bisulfate-	nks receive es have the	ed?  Gontaitiers  1 Liter Amb.  500 mL Amb.  250 mL Amb.  Col./Bacteria  Other Plastic  SOC Kit  Perchlorate  1 Liter Amb.  500 mL Amb.  Col./Bacteria	<b>4</b>	1 Liter Pl 500 mL P 250 mL P Flashpe Other G Plastic I Ziploc Unused Mi 1 Liter Pl 500 mL P 250 mL P	lastic Plastic Plastic Oint Bag Ck Balastic Plastic Plastic Oint	<b>*</b>	Base  16 o 8oz Ar 4oz Ar 2oz Ar En Frozen:  16 o: 8oz Ar 4oz Ar 2oz Ar	mb/Clear mb/Clear mb/Clear ncore z Amb, mb/Clear mb/Clear	
Were trip bla Do all sampl  Vials  Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-  Vials  Unp- HCL- Meoh- Bisulfate- DI- DI- DI- DI- DI- DI- DI- DI- DI- DI	nks receive es have the	ed?  proper pH?  Contaitiers:  1 Liter Amb.  500 mL Amb.  250 mL Amb.  Col./Bacteria  Other Plastic  SOC Kit  Perchlorate  Contaitiers:  1 Liter Amb.  500 mL Amb.  250 mL Amb.  Col./Bacteria  Other Plastic		1 Liter PI 500 mL P 250 mL P Flashpe Other G Plastic I Ziploc Unused Me 1 Liter PI 500 mL P 500 mL P Flashpe Other G	Jastic Plastic Plastic Plastic Static Plastic Static Stati	<b>*</b>	Base  16 o 8oz Ar 4oz Ar 2oz Ar Er Frozen:  16 o 8oz Ar 4oz Ar 2oz Ar En	mb/Clear mb/Clear mb/Clear mb/Clear acore	
Were trip bla Do all sampl Vials Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- DI- Thiosulfate-	nks receive es have the	ed? Containers: 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit Perchlorate Containers: 1 Liter Amb. 500 mL Amb. Col./Bacteria Other Plastic Containers: 1 Liter Amb. Col./Bacteria Other Plastic SOC Kit		1 Liter PI 500 mL P 250 mL P Flashpo Other G Plastic I Ziploc Unused Me 1 Liter PI 500 mL P 250 mL P Flashpo Other G Plastic I	lastic Plastic Plastic Plastic Oint Ilass Bag Ck Bastic Plastic	<b>*</b>	Base  16 o 8oz Ar 4oz Ar 2oz Ar En Frozen:  16 o: 8oz Ar 4oz Ar 2oz Ar	mb/Clear mb/Clear mb/Clear ncore z Amb, mb/Clear mb/Clear	
Were trip bla Do all sampl  Vials  Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-  Vials  Unp- HCL- Meoh- Bisulfate- DI- DI- DI- DI- DI- DI- DI- DI- DI- DI	nks receive es have the	ed?  proper pH?  Contaitiers:  1 Liter Amb.  500 mL Amb.  250 mL Amb.  Col./Bacteria  Other Plastic  SOC Kit  Perchlorate  Contaitiers:  1 Liter Amb.  500 mL Amb.  250 mL Amb.  Col./Bacteria  Other Plastic		1 Liter PI 500 mL P 250 mL P Flashpe Other G Plastic I Ziploc Unused Me 1 Liter PI 500 mL P 500 mL P Flashpe Other G	lastic Plastic Plastic Plastic Oint Ilass Bag Ck Bastic Plastic	<b>*</b>	Base  16 o 8oz Ar 4oz Ar 2oz Ar Er Frozen:  16 o 8oz Ar 4oz Ar 2oz Ar En	mb/Clear mb/Clear mb/Clear ncore z Amb, mb/Clear mb/Clear	

samples received with PHLD



December 14, 2017

Rob Smith ATC Group Services LLC - West Springfield 73 Williams Franks Drive West Springfield, MA 01089

Project Location: 296 Buck Pond Rd., Westfield

Client Job Number:

Project Number: 183EM00170

Laboratory Work Order Number: 17L0342

Enclosed are results of analyses for samples received by the laboratory on December 7, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Emily Snyds

Emily E. Snyder Project Manager

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ATC Group Services LLC - West Springfield

73 Williams Franks Drive West Springfield, MA 01089 ATTN: Rob Smith PURCHASE ORDER NUMBER:

REPORT DATE: 12/14/2017

PROJECT NUMBER:

183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER:

17L0342

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

PROJECT LOCATION:

296 Buck Pond Rd., Westfield

	FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
_	296 Buck Pond Rd- field blank	17L0342-01	Drinking Water		EPA 537	
	296 Buck Pond Rd- 2	17L0342-02	Drinking Water		EPA 537	



#### 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.

Daren J. Damboragian Director of Operations



Project Location: 296 Buck Pond Rd., Westfield

Sample Description:

97.0

70.1

85.1

Work Order: 17L0342

12/12/17 17:00

12/12/17 17:00

12/12/17 17:00.

Date Received: 12/7/2017

Field Sample #: 296 Buck Pond Rd- field blank

Sampled: 12/7/2017 10:41

Sample ID: 17L0342-01

13C-PFHxA

13C-PFDA

d5-NEtFOSAA

			N	Iiscellaneous C	Organic Analys	ses				
			MCL/SMC	L				Date	Date/Time	
Analyte	Results	RL	MA ORSO	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2,0	2	ng/L	1		EPA 537	12/11/17	12/12/17 17:00	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 17:00	BLM
Perfluorolieptanoic acid (PFHpA)	ND.	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 17:00	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 17:00	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 17:00	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 17:00	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	ī		EPA 537	12/11/17	12/12/17 17:00	BLM
Perfluerodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 17:00	BLM
NMeFOSAA	ND	2.0		ng/L	Ĺ		EPA 537	12/11/17	12/12/17 17:00	BLM
Perfluoroundecanoic acid (PFUnA)	ND.	2.0	2	ng/L	· 1		EPA 537	12/11/17	12/12/17 17:00	BLM
NEtFOSAA	ND	2.0	-	ng/L	1		EPA 537	12/11/17	12/12/17 17:00	BLM
Perfluorododecanoic acid (PFDoA)	ND	2,0	2	ng/L	ı		EPA 537	12/11/17	12/12/17 17:00	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	2	ng/L	í	•	EPA 537	12/11/17	12/12/17 17:00	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 17:00	BLM
Surrogates		% Rec	covery	Recovery Lim	iits	Flag/Qual				

70-130 70-130

70-130



Project Location: 296 Buck Pond Rd., Westfield

Sample Description:

Work Order: 17L0342

Date Received: 12/7/2017

Field Sample #: 296 Buck Pond Rd- 2

Sampled: 12/7/2017 10:57

Sample ID: 17L0342-02
Sample Matrix: Drinking Water

			N	Aiscellaneous Org	ganic Analys	es				
MCL/SMCL Da										
Analyte	Results	RL	MA ORSO	- Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
# Perfluorobutanesulfonic acid (PFBS)	3.4	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 20:15	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 20:15	BLM
Perfluoroheptanoic acid (PFHpA)	·ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 20:15	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 20:15	BLM
Perfluorocctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 20:15	BLM
Perfluorooctanesulfonic acid (PFOS)	· ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 20:15	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 20:15	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	· 2	ng/L	1		EPA 537	12/11/17	12/12/17 20:15	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	12/11/17	12/12/17 20:15	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 20:15	BLM
NEIFOSAA	ND	2.0		ng/L	1		EPA 537	12/11/17	12/12/17 20:15	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 20:15	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	2	ng/L	1.	•	EPA 537	12/11/17	12/12/17 20:15	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 20:15	BLM
Surrogates		% Re	covery	Recovery Limits		Flag/Qual				
13C-PFHxA		122		70-130					12/12/17 20:15	
13C-PFDA	•	90.1		70-130	•				12/12/17 20:15	
d5-NEtFOSAA		92.2		70-130					12/12/17 20:15	



#### Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date	
17L0342-01 [296 Buck Pond Rd- field blank]	B192943	250	1.00	12/11/17	
17L0342-02 [296 Buck Pond Rd- 2]	B192943	250	1.00	12/11/17	-



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

#### Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Resut	THHF.	Onts	Level	Resun	70KEC	Lumus	RPD	Limit	Notes
3atch B192943 - EPA 537										
Blank (B192943-BLK1)				Prepared: 12	/11/17 Anal	yzed: 12/12/	17		•	
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	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				•			
MeFOSAA	ND	2,0	ng/L							
erfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L						• •	
VEIFOSAA	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							
urrogate: 13C-PFHxA	35.8		ng/L	40.0		89.5	70-130			
urrogate: 13C-PFDA	29.2		ng/L	40.0		72.9	70-130			
urrogate: d5-NEtFOSAA	135		ng/L	160		84.7	70-130			
.CS (B192943-BS1)				Prepared: 12	/11/17 Analy	yzed: 12/12/	17			
erfluorobutanesulfonic acid (PFBS)	3.27	2.0	ng/L	3.54		92.3	50-150			
erfluorohexanoic acid (PFHxA)	2.62	2.0	ng/L	4.00		65.5	50-150			
erfluoroheptanoic acid (PFHpA)	2.70	2.0	ng/L	4.00		67.6	50-150			
erfluorohexanesulfonic acid (PFHxS)	3.94	2.0	ng/L	3.64		108	50-150			
erfluorooctanoic acid (PFOA)	2,93	2.0	ng/L	4,00		73,3	50-150			
erfluorooctanesulfonic acid (PFOS)	2.59	2.0	ng/L	3.70		70.0	50-150			
erfluorononanoic acid (PFNA)	2.89	2.0	ng/L	4.00		72.2	50-150			
erfluorodecanoic acid (PFDA)	2,22	2,0	ng/L	4.00		55,5	50-150			
IMeFOSAA	2.38	2.0	ng/L	4.00		59.5	50-150			
erfluoroundecanoic acid (PFUnA)	2,44	2.0	ng/L	4.00		60.9	50-150			
ELFOSAA	2.97	2.0	ng/L	4.00		74,3	50-150			
erfluorododecanoic acid (PFDoA)	2.32	2.0	ng/L	4.00		58.1	50-150			
erfluorotridecanoic acid (PFTrDA)	2.09	2.0	ng/L	4.00		52.3	50-150			
erfluorotetradecanoic acid (PFTA)	2.15	2.0	ng/L	4.00		53.7	50-150			
urrogate: 13C-PFHxA	38.8		ng/L	40.0		97.1	70-130			
urrogate: 13C-PFDA	28.1	•	ng/L	40.0		70.2	70-130			
urrogate: d5-NEtFOSAA	143		ng/L	160		89.5	70-130			



# 39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332 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
1CL	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 537 in Drinking Water	
Perfluorobutanesutfonic acid (PFBS)	VT-DW,ME,RI
Perfluorohexanoic acid (PFHxA)	VT-DW,ME,RI
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME,RI
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME,RI
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,RI
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,RI
Perfluorononanoic acid (PFNA)	VT-DW,ME,RI
Perfluorodecanoic acid (PFDA)	VT-DW,ME,RI
NMeFOSAA	VT-DW,RI
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME,RI
NEtFOSAA ·	VT-DW,RI
Perfluorododecanoic acid (PFDoA)	VT-DW,ME,RI
Perfluorotridecanoic acid (PFTrDA)	VT-DW,ME,RI
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME,RI

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

***			<u> </u>		
Iа	bie	OT	Cor	nter	I

http://www.contestlabs.com めてのロー Phone: 413-525-2332

CON-test

CHAIN OF CUSTODY RECORD

39 Spruce Street East Longmeadow, MA 01028 Doc # 381 Rev 1\_03242017

Page \_\_1\_\_\_ of \_\_\_1\_\_

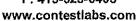
<sup>2</sup> Preservation Codes Sodium Hydroxide GW = Ground Water WW = Waste Water DW = Drinking water Orthophosphate Samp M = Methanol N = Muric Acid S = Sultinic Acid B = Sodium Bisulfate S= Suntina Canister \$ = 50il \$1 = 5tildge \$01 = 5tild D= 0ther (blease ³ <u>Container Codes:</u> A≔Amber Glass o = otiser (please 0 = Other (please Non Soxhlet PCB ONLY O. Field Filtered Dissolved Metals S O Field Filtered Soxhlet T = Tedlar Bag Matrix Codes <sup>2</sup> Preservation Code G = Glass P = Plastic ST = Stenile V = Wati O Lab to Filter O Lab to Filter Container Code hiosulfate = Sodium # of Containers definel define Please use the following codes to indicate possible sample concentration CON-KEST. Chromatogram AIHA-LAP,LLC within the Conc Code column above: H - High; M - Medium; L - Low; C - Clean; U - Unknown ANALYSIS REQUESTED Other WRTA r TOTAL As, Fe, HARDNESS, TOC CT RCP Required RCP Certification Form Required MA MCP Required MCP Certification Form Required z MWRA School MA State DW Required MBTA Special Requirements 0 ۵ EPA METHOD 537 × × ×  $\Rightarrow$  $\Rightarrow$ Requested Turnaround Time Municipality Ã Š Ă Rush-Approval Required Brownfield PWSID # 10-Day Data Delivery 3-Day 4-Day I CLP Like Data Pkg Required: × × × Detection Limit Requirements Due Date: 5-day TAT Government 10:57 Email To: 0.36 12/7/2017 10:41 Federal Fax To #: Format: 12/6/2017 16:15 Other; 7-Day EXTRACT & HOLD EPA Method 537: 296 Buck Pond Rd-field blank & 296 Buck Pond Rd-2 f-Day 2-Day 충 Project Entity Other: ל 12/7/2017 12/7/2017 MA 73 William Franks Drive, West Springfield, MA 833 2/2/1/1/230 Date/Time: Email: info@contestlabs.com 296 Buck Pond Rd - field blank Fax: 413-525-6405 296 Buck Pand Rd, Westfleld Date/Time: Date/Time: Date/Time: Date/Time: 296 Buck Pond Rd, Westfield Date/Time: 11/11/11 RUN EPA Method 537: Trip Blank and 296 Buck Pond Rd-1 296 Buck Pond Rd - 2 296 Buck Pond Rd - 1 ATC Group Services Elizabeth O'Connor (413) 781-007C 9 183EM00170 Trip blank Rob Smith Con-Test Quote Name/Number: HOLD As, Fe, Hardness, TOC Relipquished by: (signature) nquished by: (signature) uished by: (signature) 8558 (signature) ived by: (signature) eived by: (signature) Con Test Work Order# Invoice Recipient; Project Location: Project Manager: Project Number: Company Name: Project Name: A Service of the serv Sampled By: Address: Phone: Page 11 of 12

39 Spruce St.

East Longmeadow, MA. 01028

P: 413-525-2332

F: 413-525-6405





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	<u> </u>							
Received By	RIF		Date	10/7	17	Time	153	)
How were the samples	In Cooler		No Cooler	-	On Ice		No Ice	
received?	Direct from Samp	oling	•		- Ambient		Melted Ice	,—————————————————————————————————————
Were samples within	•	By Gun#	557		Actual Terr	10 - 4 60 C		
Temperature? 2-6°C	7	By Blank #			Actual Tem		· · · · · · · · · · · · · · · · · · ·	• •
Was Custody S	eal Intact?	MA	We	re Samole	s Tampered	<del></del>	\ \	
Was COC Relir		— <del>T</del>		-	ree With Sa		7	
	leaking/loose caps	on any sam		F		•		ı
Is COC in ink/ Legible?	T	·	Were san	nples recei	ved within h	olding time?		
Did COC include all	Client		Analysis	T		er Name	T	
pertinent Information?	Project		ID's	丁	Collection	Dates/Times		
Are Sample labels filled	d out and legible?							
Are there Lab to Filters'	?	F		Who wa	s notified?			
Are there Rushes?		F			s notified?			
Are there Short Holds?		F		Who was	s notified?			
Is there enough Volume	<del>.</del> ?	<u> </u>						
Is there Headspace who		WA.		MS/MSD?		_		
Proper Media/Container	rs Used?				samples rec	quired?	<u> </u>	
Were trip blanks receive	ed?	F		On COC?	<u>MA</u>	_	-	
Do all samples have the	proper pH?		Acid	<u> </u>		Base	<u>ua</u>	
	le containe pro-						e year	
Unp-	1 Liter Amb.		1 Liter F				Amb.	
HCL-	500 mL Amb.		500 mL		( : 1 ( )		b/Clear	
Meoh-	250 mL Amb.		250 mL		43		b/Clear	
Bisulfate-	Col./Bacteria		Flash		***************************************		b/Clear	
DI-	Other Plastic		Other (				core	
Thiosulfate- Sulfuric-	SOC Kit Perchlorate		Plastic			Frozen:		
Sullurio-	reichiolate		Ziplo					
Vale 1	Consiners.		Maused N	[B-][B]				
Unp-	1 Liter Amb.		1 Liter F	Plastic		16 oz	Δmh	
HCL-	500 mL Amb.		500 mL			8oz Am		
Meoh-	250 mL Amb.		250 mL			4oz Am		
Bisulfate-	Col./Bacteria		Flashp			2oz Am		
DI-	Other Plastic		Other C		<del></del>	Enc		
Thiosulfate-	SOC Kit		Plastic			Frozen:	L	
Sulfuric-	Perchlorate	-	Ziplo					
Comments:								



# Commonwealth of Massachusetts Executive Office of Energy & Environmental Affairs

# Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker Governor

Karyn E. Polito Lieutenant Governor Matthew A. Beaton Secretary

> Martin Suuberg Commissioner

January 3, 2018

James & Rose Oleksak 31 Schumann Drive Westfield, MA 01085

RE: Notice of Environmental Sampling

31 Schumann Drive

Westfield Private Well Sampling

Dear Mr. & Mrs. Oleksak:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on December 7, 2017. The purpose of the sampling was to investigate whether your well has been affected by a release of perfluorinated compounds (PFCs) to local groundwater. The sample was sent to a certified laboratory and analyzed for PFC compounds by modified United States Protection Agency (EPA) Method 317.1. EPA has established a Lifetime Health Advisory level at 70 parts per trillion (ppt), for two specific compounds which have been the most extensively used and studied, PFOA (perfluorooctanoic acid) and PFOS (perfluorooctane sulfonic acid). If both PFOA and PFOS are identified in drinking water the combined concentrations are compared to the 70 ppt health advisory level. The Health Advisory offers a margin of protection from a lifetime of exposure to PFOA and PFOS for all individuals from adverse health effects resulting from exposure from PFOA and PFOS in drinking water. <sup>1</sup>

The sampling result (resample) indicated a total PFOA and PFOS concentration of 18.5 ppt in the drinking water sample. The results of a duplicate sample confirmed these results. This concentration is well below the health advisory level of 70 ppt and is consistent with the November sampling results. Based on this data and the November data no further action, including additional sampling and/or mitigation measures (i.e. bottled water) are required at this time. However, additional sampling may be required in the future. The Department thanks you for granting access to your property.

Notice of Environmental Sampling 31 Schumann Drive Westfield, RTN: 1-20093 Page 2 of 2

If you have any questions pertaining to this Notice of Environmental Sampling or with the informationn contained within, please feel free to contact David Bachand at (413) 755-2221 or Cynthia Pawloski at (413) 755-2247.

Sincerely,

Eva Tor

Deputy Regional Director Bureau of Waste Site Cleanup

Attachments: Notice of Environmental Sampling (BWSC-123)

Laboratory Report

ec: Mayor, City of Westfield
Barnes ANG-John Richardson
Barnes Aquifer Protection Committee
Westfield DPW — David Billips
Westfield Health Department
Westfield Councilor Mary Ann Babinski
Dr. Marc A. Nascarella, Ph.D/DPH

cc:

Denise Andler, DEP WERO Data Entry: FOLOFF, FOLFLD

Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016



### Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

### BWSC123

This Notice is Related to: Release Tracking Number

### NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. T	he address	s of the disposal site related to	this Notice	and Release Tracking Number (provided above):
1. S	Street Addre	ess: 175 Falcon Drive		
C	City/Town:	Westfield	Zip Code:	01080
1. N	lame: Jam	is being provided to the follownes and Rose Oleksak	ing party:	
2. S	treet Addre	ss: 31 Schumann Drive		
C	ity/Town:	Westfield	Zip Code:	01085
	1. That 2. Of th 3. Che	e results of environmental sampl	as been con ing conducte ults are attac	aducted at property owned by the recipient of this notice.  Ed at property owned by the recipient of this notice.  Checked, (If item 2, above is checked, the analytical results from
1. St		ss: 31 Schumann Drive		npling will be/has been conducted:  01085
	Immediate	of work during which the samplin e Response Action Abatement Measure	☐ Phase	e III Feasibility Evaluation se IV Remedy Implementation Plan
	Phase I li	ated Abatement Measure nitial Site Investigation Comprehensive Site Assessmen	Post-	se V/Remedy Operation Status -Temporary Solution Operation, Maintenance and Monitoring r (specify)
3. D		of property where sampling will b		
				☐school/playground ☐ Other(specify)
time Drin	of this notic king wate	ce.	rom the pri	i, groundwater, indoor air, soil gas) to the extent known at the ivate well located at the above-referenced 37.1.1.
	ontact info	rmation related to the party pro MA Department of Environmen		
		436 Dwight Street		
		ingfield, MA	Zip Code:	
		3) 784-1100	Email: da	vid.bachand.jr@state.ma.us



#### Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

### NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

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0	N	а.	7	u		Z	J

This Notice is Related to: Release Tracking Number

1	$\neg$
П	- 1

20093

### MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

#### THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

#### PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

**Section C** on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

**Section D** on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

#### FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <a href="http://www.mass.gov/eea/agencies/massdep/cleanup">http://www.mass.gov/eea/agencies/massdep/cleanup</a>. For more information regarding this notice, you may contact the party listed in Section E on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <a href="http://public.dep.state.ma.us/SearchableSites2/Search.aspx">http://public.dep.state.ma.us/SearchableSites2/Search.aspx</a> to view site-specific files on-line or <a href="http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html">http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html</a> if you would like to make an appointment to see these files in person. Please reference the Release Tracking Number listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Revised: 5/30/2014 Page 2 of 2



December 14, 2017

Rob Smith ATC Group Services LLC - West Springfield 73 Williams Franks Drive West Springfield, MA 01089

Project Location: 31 Schumann Dr., Westfield

Client Job Number:

Project Number: 183EM00170

Laboratory Work Order Number: 17L0339

Enclosed are results of analyses for samples received by the laboratory on December 7, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Emily Inyd

Emily E. Snyder Project Manager

# Table of Contents

Sample Summary			3
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Sample Results		•	5
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B192943			7
Flag/Qualifier Summary			8
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Chain of Custody/Sample Receipt			10



ATC Group Services LLC - West Springfield 73 Williams Franks Drive West Springfield, MA 01089

REPORT DATE: 12/14/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER:

183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER:

.17L0339

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

PROJECT LOCATION:

31 Schumann Dr., Westfield

FIELD SAMPLE#

ATTN: Rob Smith

LAB ID:

MATRIX

SAMPLE DESCRIPTION

TEST

SUB LAB

31 Schumann Dr-3

17L0339-01 Drinking Water

EPA 537



#### 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.

Daren J. Damboragian Director of Operations



Project Location: 31 Schumann Dr., Westfield

Sample Description:

Work Order: 17L0339

Date Received: 12/7/2017

Field Sample #: 31 Schumann Dr-3

Sampled: 12/7/2017 11:33

Sample ID: 17L0339-01

d5-NEtFOSAA

Sample Matrix: Drinking Water

			N	Aiscellaneous Org	ganic Analys	es			· <b>-</b> ·	•
		٠	MCL/SMC	CL.		•		Date	Date/Time	
Analyte	Results	RL	MA ORSO	G Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analys
# Perfluorobutanesulfonic acid (PFBS)	6.1	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 19:49	BLM
# Perfluorohexanoic acid (PFHxA)	13	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 19:49	BLM
# Perfluoroheptanoic acid (PFHpA)	4.1	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 19:49	BLM
# Perfluorohexanesulfonic acid (PFHxS)	2.6	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 19:49	BLM
# Perfluorooctanoic acid (PFOA)	10	2.0	2	ng/L	I		EPA 537	12/11/17	12/12/17 19:49	BLM
# Perfluorooctanesulfonic acid (PFOS)	8.5	2.0	2	ng/L	Í		EPA 537	12/11/17	12/12/17 19:49	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 19:49	BLM
Perfluorodecanoic acid (PFDA)	. ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 19:49	BLM
NMeFOSAA ·	ND	2.0		ng/L	1		EPA 537	12/11/17	12/12/17 19:49	BLM
Perfluoroundecanoic acid (PFUnA)	, ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 19:49	BLM
NEtFOSAA	· ND	2.0		ng/L	1		EPA 537	12/11/17	12/12/17 19:49	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 19:49	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 19:49	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	I		EPA 537	12/11/17	12/12/17 19:49	BLM
Surrogates		% Re	covery	Recovery Limits	3	Flag/Qual				
13C-PFHxA		123		70-130		-			12/12/17 19:49	
13C-PFDA		87.4		70-130					12/12/17 19:49	
d5-NEtFOSAA		111		70-130					12/12/17 19:49	



#### Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date	
17L0339-01 [31 Schumann Dr-3]	B192943	250	1.00	12/11/17	



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

#### Miscellaneous Organic Analyses - Quality Control

Analyte	· Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B192943 - EPA 537										
Blank (B192943-BLK1)				Prepared: 12	2/11/17 Anal	yzed: 12/12/	17			
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L						,	
Perfluorchexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoreoctanoic 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							
NMeFOSAA	. ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	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			-				
Surrogate: 13C-PFHxA	35.8		ng/L	40.0		89.5	70-130			
Surrogate: 13C-PFDA	29.2		ng/L	40.0		72.9	70-130			
Surrogate: d5-NEtFOSAA	135	,	ng/L	160		84.7	70-130			
LCS (B192943-BS1)		•		Prepared: 12	2/11/17 Analy	yzed: 12/12/	17			
Perfluorobutanesulfonic acid (PFBS)	3.27	2.0	ng/L	3,54		92.3	50-150			
Perfluorohexanoic acid (PFHxA)	2.62	. 2.0	ng/L	4.00		65,5	50-150			
Perfluoroheptanoic acid (PFHpA)	2.70	2.0	ng/L	4.00		67.6	50-150			
Perfluorohexanesulfonic acid (PFHxS)	3.94	2.0	ng/L	3.64 .		108	50-150			
Perfluorooctanoic acid (PFOA)	2.93	2.0	ng/L	4.00		73.3	50-150			
Perfluorooctanesulfonic acid (PFOS)	2.59	2.0	ng/L	3.70		70.0	50-150			
Perfluorononanoic acid (PFNA)	2.89	2.0	ng/L	4.00		72.2	50-150			
Perfluorodecanoic acid (PFDA)	2.22	2.0	ng/L	4.00		55,5	50-150			
NMcFOSAA	2.38	2.0	ng/L	4.00		59.5	50-150			
Perfluoroundecanoic acid (PFUnA)	2.44	2.0	ng/L	4.00		60.9	50-150			
NEtFOSAA	2.97	2.0	ng/L	4.00		74,3	50-150			
Perfluorododecanoic acid (PFDoA)	2,32	2.0	ng/L	4.00		58.1	50-150			
Perfluorotridecanoic acid (PFTrDA)	2.09	2.0	ng/L	4.00		52.3	50-150			
Perfluorotetradecanoic acid (PFTA)	2.15	2.0	ng/L	4.00		53.7	50-150			
Surrogate: 13C-PFHxA	38.8		ng/L	40.0		97.1	70-130			
Surrogate: 13C-PFDA	28.1		ng/L	40.0		70.2	70-130			
Surrogate; d5-NEtFOSAA	143		ng/L	160		89.5	70-130			



#### 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
<b>M</b> CL	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 537 in Drinking Water		
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME,RI	•
Perfluorohexanoic acid (PFHxA)	VT-DW,ME,RI	
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME,RI	
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME,RI	
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,RI	
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,RI	
Perfluorononanoic acid (PFNA)	VT-DW,ME,RI	
Perfluorodecanoic acid (PFDA)	VT-DW,ME,RI	
NMeFOSAA	VT-DW,RI	
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME,RI	
NEtFOSAA	VT-DW,RI	
Perfluorododecanoic acid (PFDoA)	VT-DW,ME,RI	
Perfluorotridecanoic acid (PFTrDA)	VT-DW,ME,RI	
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME,RI	

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
СТ	Connecticut Department of Publik Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	·460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

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Dissolved Metals Samples <sup>2</sup> Preservation Codes Sodium BisulfateSodium Hydroxide GW = Ground Water WW = Waste Water DW ≤ Drinking Water T = Tedlar Bag O = Other (please 5 - Summa Canister Container Codes: A = Air S = Soil SL = Studge SOL = Soild 0 = Other (please Page 1 of 1 Orthophosphate Sai Other (please A = Amber Glass G = Glass Sulfuric Acid Preservation Code O Field Filtered: 1 Matrix Codes: = Nitric Acid O. Field Filtered O Lab to Filter O Lab to Fitter = Methanol ST = Stenle Container Code = Sodium niosulfate TRIZMA P = Plastic # of Containers \ \ \ \ \ \ define) define) define) 긒 Please use the following codes to indicate possible sample concentration con-test analytical Laboratory rww.contestiabs.com 39 Spruce Street East Longmeadow, MA 01028 H - High; M - Medium; L - Low; C - Clean; U - Unknown ANALYSIS REQUESTED within the Conc Code column above: Doc # 381 Rev 1\_03242017 I > TOTAL AS, Fe, HARDNESS, TOC CT RCP Required MCP Certification Form Required RCP Certification Form Required MA MCP Required z Δ. MA State DW Required Special Requirements 0 Δ × **EPA METHOD 537** × ×  $\supset$  $\Rightarrow$  $\supset$ http://www.contestlabs.com Matrix CHAIN OF CUSTODY RECORD Ѯ ₹ ձ Requested Turnaround Rush-Approval Requ Data Delivery 10-Day EXCEL 3-Day 4-Day CLP Like Data Pkg Required: × Composite Due Date: 5-day TAT **Detection Limit Requirements** Format: PDF 口 Ending: Date/filme Email To: 11:33 11:34 Fax To #: 11:2 Other: 2-Day -Day 7-Day EXTRACT & HOLD EPA Method 537: 31 Schumann Dr-field blank & 31 Schumann Dr-4 700220 Beginning F 12/7/2017 12/7/2017 12/7/2017 CT MA 73 William Franks Drive, West Springfield, MA 1830 15:30 Email: info@contestlabs.com Phone: 413-525-4332 Date/Tine: Fax: 413-525-6405 31 Schumann Dr - field blank Date/Time: 1211 Jate/Time Date/Time: 31 Schumann Dr, Westfield 31 Schumann Dr, Westfield ATC Group Services 31 Schumann Dr - 3 31 Schumann Dr - 4 Elizabeth O'Connor (413) 781-0070 183EM00170 9 Rob Smith RUN EPA Method 537: 31 Schumann Dr-3 Con-Test Quote Name/Number: CON-TEST HOLD As, Fe, Hardness, TOC Religguished by: (signature) figuration by: (signature) DKAR ROA (ecglyed by: (stgnature) ved by: (signature) Work Order# Con-Test nvoice Recipient: Project Manager: Project Location: Company Name: Project Number: Project Name: ampled By Comments Address: Phone:

Non Soxhlet PCB ONLY Soxhlet Chromatogram AIHA-LAP,LLC Other WRTA MWRA School MBTA Municipality **Brownfield** PWSID # 21 ] Project Entity Other: Date/Time: Date/Time: quished by: (signature) ived by: (signature)

39 Spruce St.

East Longmeadow, MA. 01028

P: 413-525-2332

F: 413-525-6405





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	+11							·,.,
Receiv	ved By	- RIF	47	Date 18		Time	1530	<u>)                                    </u>
How were t	he samples	In Cooler	T	No Cooler	On Ice		No Ice	
recei	ved?	Direct from Sam	olina	·	Ambient		Melted Ice	,
		Direction Com-	-	557	Actual Tem	n = 4. D		
Were sam	-			<u> </u>	•			
Temperatu		11.1.1.2.10	By Blank #	Wasa Ca	Actual Tem		110	
	Custody S		<u> </u>		mples Tampered		<u></u>	
	s COC Refir	•			n Agree With Sa	mpies r		
		eaking/loose caps	on any sam		received within h	oldina time?	7	
Is COC in in Did COC i		Client	•	Analysis T		er Name	<del></del>	
pertinent In		Project		ID's T	and the state of t	Dates/Times	· ——	
•		out and legible?	-					
Are there La			<del></del>	Who	was notified?			
Are there Ru		•	1=		was notified?	******************************		
Are there Sh					o was notified?			÷
Is there eno		?	一					
	~	re applicable?	F	MS/M	SD? WA			
Proper Medi	•		<del></del>		tting samples rec	uired?	F	
Were trip bla			<u> </u>		oci NA	-		
Do all sampl				Acid		Base	A	
Vicio		(Containers						
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz	Amb.	
HCL-	2	500 mL Amb.		500 mL Plasti		8oz An	nb/Clear	
Meoh-		250 mL Amb.		250 mL Plasti	G 3	4oz An	nb/Clear	
		LOO THE TRING.						
Bisulfate-		Col,/Bacteria		Flashpoint		<del></del>	nb/Clear	
Bisulfate- DI-		Col./Bacteria Other Plastic		Other Glass		End	nb/Clear core	
Bisulfate- DI- Thiosulfate-		Col./Bacteria Other Plastic SOC Kit		Other Glass Plastic Bag		<del></del>		
Bisulfate- DI-		Col./Bacteria Other Plastic		Other Glass		End		
Bisulfate- DI- Thiosulfate- Sulfuric-		Col,/Bacteria Other Plastic SOC Kit Perchlorate		Other Glass Plastic Bag		End		
Bisulfate- DI- Thiosulfate- Sulfuric-		Col./Bacteria Other Plastic SOC Kit Perchlorate		Other Glass Plastic Bag Ziplock Unused Media	#	End Frozen:	core	<b>3</b>
Bisulfate- DI- Thiosulfate- Sulfuric- VEIB Unp-		Col./Bacteria Other Plastic SOC Kit Perchlorate  Containers 1 Liter Amb.	***	Other Glass Plastic Bag Zlplock Unused Media 1 Liter Plastic		End Frozen:	core	
Bisulfate- DI- Thiosulfate- Sulfuric- Visite Unp- HCL-		Col./Bacteria Other Plastic SOC Kit Perchlorate  Containers 1 Liter Amb. 500 mL Amb.		Other Glass Plastic Bag Zlplock Unused Media 1 Liter Plastic 500 mL Plastic		End Frozen: 16 oz 8oz Am	Amb.	
Bisulfate- DI- Thiosulfate- Sulfuric- VIIII Unp- HCL- Meoh-		Col./Bacteria Other Plastic SOC Kit Perchlorate  Containers 1 Liter Amb. 500 mL Amb. 250 mL Amb.		Other Glass Plastic Bag Zlplock Unused Media  1 Liter Plastic 500 mL Plastic 250 mL Plastic		End Frozen: 16 oz 8oz Am 4oz Am	Amb, ab/Clear	
Bisulfate- DI- Thiosulfate- Sulfuric- Visit Unp- HCL- Meoh- Bisulfate-		Col./Bacteria Other Plastic SOC Kit Perchlorate  Containers 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria	*	Other Glass Plastic Bag Ziplock Unused Media  1 Liter Plastic 500 mL Plastic 250 mL Plastic		End Frozen: 16 oz 8oz Am 4oz Am 2oz Am	Amb, nb/Clear nb/Clear	
Bisulfate- DI- Thiosulfate- Sulfuric- Visit Unp- HCL- Meoh- Bisulfate- DI-		Col./Bacteria Other Plastic SOC Kit Perchlorate  Containers 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic		Other Glass Plastic Bag Ziplock Unused Media  1 Liter Plastic 500 mL Plastic 250 mL Plastic Flashpoint Other Glass		End Frozen: 16 oz 8oz Am 4oz Am 2oz Am End	Amb, ab/Clear	
Bisulfate- DI- Thiosulfate- Sulfuric-  VEIE Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate-	4	Col./Bacteria Other Plastic SOC Kit Perchlorate  Containers 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit		Other Glass Plastic Bag Zlplock Unused Media  1 Liter Plastic 500 mL Plastic 250 mL Plastic Flashpoint Other Glass Plastic Bag		End Frozen: 16 oz 8oz Am 4oz Am 2oz Am	Amb, nb/Clear nb/Clear	
Bisulfate- DI- Thiosulfate- Sulfuric-  Viels Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric-		Col./Bacteria Other Plastic SOC Kit Perchlorate  Containers 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic		Other Glass Plastic Bag Ziplock Unused Media  1 Liter Plastic 500 mL Plastic 250 mL Plastic Flashpoint Other Glass		End Frozen: 16 oz 8oz Am 4oz Am 2oz Am End	Amb, nb/Clear nb/Clear	***
Bisulfate- DI- Thiosulfate- Sulfuric- Visite Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Comments:		Col./Bacteria Other Plastic SOC Kit Perchlorate  Centaliners 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit Perchlorate		Other Glass Plastic Bag Ziplock Unused Media  1 Liter Plastic 500 mL Plastic 250 mL Plastic Flashpoint Other Glass Plastic Bag Ziplock		End Frozen: 16 oz 8oz Am 4oz Am 2oz Am End	Amb, nb/Clear nb/Clear	
Bisulfate- DI- Thiosulfate- Sulfuric- Visite Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Comments:		Col./Bacteria Other Plastic SOC Kit Perchlorate  Containers 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit	with	Other Glass Plastic Bag Ziplock Unused Media  1 Liter Plastic 500 mL Plastic 250 mL Plastic Flashpoint Other Glass Plastic Bag Ziplock		End Frozen: 16 oz 8oz Am 4oz Am 2oz Am End	Amb, nb/Clear nb/Clear	
Bisulfate- DI- Thiosulfate- Sulfuric- Visite Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Comments:		Col./Bacteria Other Plastic SOC Kit Perchlorate  Centaliners 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit Perchlorate	with T	Other Glass Plastic Bag Ziplock Unused Media  1 Liter Plastic 500 mL Plastic 250 mL Plastic Flashpoint Other Glass Plastic Bag Ziplock		End Frozen: 16 oz 8oz Am 4oz Am 2oz Am End	Amb, nb/Clear nb/Clear	
Bisulfate- DI- Thiosulfate- Sulfuric- Visite Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Comments:		Col./Bacteria Other Plastic SOC Kit Perchlorate  Centaliners 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit Perchlorate	with	Other Glass Plastic Bag Ziplock Unused Media  1 Liter Plastic 500 mL Plastic 250 mL Plastic Flashpoint Other Glass Plastic Bag Ziplock		End Frozen: 16 oz 8oz Am 4oz Am 2oz Am End	Amb, nb/Clear nb/Clear	
Bisulfate- DI- Thiosulfate- Sulfuric- Visite Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Comments:		Col./Bacteria Other Plastic SOC Kit Perchlorate  Centaliners 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit Perchlorate	with T	Other Glass Plastic Bag Ziplock Unused Media  1 Liter Plastic 500 mL Plastic 250 mL Plastic Flashpoint Other Glass Plastic Bag Ziplock		End Frozen: 16 oz 8oz Am 4oz Am 2oz Am End	Amb, nb/Clear nb/Clear	
Bisulfate- DI- Thiosulfate- Sulfuric- Visite Unp- HCL- Meoh- Bisulfate- DI- Thiosulfate- Sulfuric- Comments:		Col./Bacteria Other Plastic SOC Kit Perchlorate  Centaliners 1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit Perchlorate	with T	Other Glass Plastic Bag Ziplock Unused Media  1 Liter Plastic 500 mL Plastic 250 mL Plastic Flashpoint Other Glass Plastic Bag Ziplock		End Frozen: 16 oz 8oz Am 4oz Am 2oz Am End	Amb, nb/Clear nb/Clear	



December 14, 2017

Rob Smith ATC Group Services LLC - West Springfield 73 Williams Franks Drive West Springfield, MA 01089

Project Location: 31 Schumann Dr., Westfield

Client Job Number:

Project Number: 183EM00170

Laboratory Work Order Number: 17L0343

Emily Inyd

Enclosed are results of analyses for samples received by the laboratory on December 7, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Emily E. Snyder Project Manager

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REPORT DATE: 12/14/2017



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

ATC Group Services LLC - West Springfield

73 Williams Franks Drive West Springfield, MA 01089 ATTN: Rob Smith

PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

WORK ORDER NUMBER:

17L0343

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

PROJECT LOCATION:

31 Schumann Dr., Westfield

			,		
FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
31 Schumann Dr- field blank	17L0343-01	Drinking Water		EPA 537	
31 Schumann Dr- 4	17L0343-02	Drinking Water		EPA 537	•



#### 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.

Daren J. Damboragian Director of Operations



Project Location: 31 Schumann Dr., Westfield

Sample Description:

92.0

Work Order: 17L0343

12/12/17 17:26

Date Received: 12/7/2017

Field Sample #: 31 Schumann Dr- field blank

Sampled: 12/7/2017 11:21

Sample ID: 17L0343-01

d5-NEtFOSAA

Sample Matrix: Drinking Water

				Iiscellaneous Or	ganic Analys	es				
•			MCL/SMC	L				Date	Date/Time	-
Analyte	Results	RL	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 17:26	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	rig/L	1		EPA 537	12/11/17	12/12/17 17:26	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 17:26	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	I		EPA 537	12/11/17	12/12/17 17:26	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 17:26	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 17:26	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 17:26	BLM
Perfluorodecanoic acid (PFDA)	ND	2,0	2	ng/L	1		EPA 537,	12/11/17	12/12/17 17:26	BLM
NMcFOSAA	ND	2.0		ng/L	1		EPA 537	12/11/17	12/12/17 17:26	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2,0	. 2	ng/L	1		EPA 537	12/11/17	12/12/17 17:26	BLM
NECFOSAA	ND	2.0		ng/L	1		EPA 537	12/11/17	12/12/17 17:26	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 17:26	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 17:26	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537.	12/11/17	12/12/17 17:26	BLM
Surrogates		% Re	covery	Recovery Limit	s	Flag/Qual				
13C-PFHxA		96.1		70-130					12/12/17 17:26	
13C-PFDA		70.5		70-130					12/12/17 17:26	

70-130



Project Location: 31 Schumann Dr., Westfield

Sample Description:

Work Order: 17L0343

Date Received: 12/7/2017

Field Sample #: 31 Schumann Dr- 4

Sampled: 12/7/2017 11:34

Sample ID: 17L0343-02

Sample Matrix: Drinking Water

			N	Iiscellaneous Or	ganic Analys	es				
	*		MCL/SMC	L.				Date	Date/Time	
Analyte	Results	RL	MA ORSO	- Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
# Perfluorobutanesulfonic acid (PFBS)	6.3	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 17:39	BLM
# Perfluorohexanoic acid (PFHxA)	15	2,0	2	ng/L	1		EPA 537	12/11/17	12/12/17 17:39	BLM
# Perfluoroheptanoic acid (PFHpA)	4.4	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 17:39	BLM
# Perfluorohexanesulfonic acid (PFHxS)	2.2	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 17:39	BLM
# Perfluerocctanoic acid (PFOA)	11	2.0	2	ng/L	1 .		EPA 537	12/11/17	12/12/17 17:39	BLM
# Perfluorooctanesulfonic acid (PFOS)	8.9	2.0	2	ng/L	ı		EPA 537	12/11/17	12/12/17 17:39	BLM
Perfluoronomanoic acid (PFNA)	ND	2.0	2	ng/L	I		EPA 537	12/11/17	12/12/17 17:39	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2 .	ng/L	1		EPA 537	12/11/17	12/12/17 17:39	BLM
NMeFOSAA	ND	2.0		ng/L	í		EPA 537	12/11/17	12/12/17 17:39	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	I		EPA 537	12/11/17	12/12/17 17:39	BLM
NEtFOSAA	ŅD	2.0		ng/L	1		EPA 537	12/11/17	12/12/17 17:39	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 17:39	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 17:39	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2 .	ng/L	1		EPA 537	12/11/17	12/12/17 17:39	BLM
Surrogates		%,Rec	overy	Recovery Limit	s	Flag/Qual		•		
13C-PFHxA	1.	105		70-130			·		12/12/17 17:39	
13C-PFDA		70,7		70-130			•		12/12/17 17:39	
d5-NEtFOSAA		88,0		70-130					12/12/17 17:39	



### Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date	
171.0343-01 [31 Schumann Dr- field blank]	B192943	250	1.00	12/11/17	
17L0343-02 [31 Schumann Dr- 4]	B192943	250	1.00	12/11/17	



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

#### Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B192943 - EPA 537		-								<del></del>
Blank (B192943-BLK1)	• .			Prepared: 12	/11/17 Anal	yzed: 12/12/	17			
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	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)	ИD .	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	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							
Surrogate: 13C-PFHxA	35.8		ng/L	40.0		89.5	70-130			
Surrogate; 13C-PFDA	29.2		ng/L	40.0		72.9	70-130			
Surrogate; d5-NEtFOSAA	135		ng/L	160		84.7	70-130			
LCS (B192943-BS1)				Prepared: 12/	/11/17 Anal	yzed: 12/12/	17			
Perfluorobutanesulfonic acid (PFBS)	3.27	2.0	ng/L	3.54		92.3	50-150			
Perfluorohexanoic acid (PFHxA)	2.62	2.0	ng/L	4,00		65.5	50-150			
Perfluoroheptanoic acid (PFHpA)	2.70	2.0	ng/L	4.00		67.6	50-150			
Perfluorohexanesulfonic acid (PFHxS)	3.94	2.0	ng/L	3.64		108	50-150			
Perfluorooctanoic acid (PFOA)	2,93	2.0	ng/L	4.00		73.3	50-150			
Perfluorooctanesulfonic acid (PFOS)	2.59	2.0	ng/L	3.70		70.0	50-150			
Perfluorononanoic acid (PFNA)	2.89	2.0	ng/L	4.00		72,2	50-150			
Perfluorodecanoic acid (PFDA)	2,22	2.0	ng/L	4.00		55,5	50-150			
NMeFOSAA	2.38	2.0	ng/L	4.00		59,5	50-150			
Perfluoroundecanoic acid (PFUnA)	2.44	2.0	ng/L	4.00		60.9	50-150			
NEtFOSAA	2.97	2,0	ng/L	4.00		74.3	50-150			
Perfluorododecanoic acid (PFDoA)	2.32	2.0	ng/L	4.00		58.1	50-150			
Perfluorotridecanoic acid (PFTrDA)	2.09	2.0	ng/L	4.00		52,3	50-150			
Perfluorotetradecanoic acid (PFTA)	2.15	2.0	ng/L	4.00		53.7	50-150			
Surrogate: 13C-PFHxA	38.8		ng/L	40.0		97.1	70-130			,
Surrogate: 13C-PFDA	28.1		ng/L	40.0		70.2	70-130			
Surrogate; d5-NEtFOSAA	143		ng/L	160		89.5	70-130			



#### 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
<i>A</i> CL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in

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 537 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME,RI
Perfluorohexanoic acid (PFHxA)	VT-DW,ME,RI
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME,RI
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME,RI
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,RI
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,RI
Perfluorononanoic acid (PFNA)	VT-DW,ME,RI
Perfluorodecanoic acid (PFDA)	VT-DW,ME,RI
NMeFOSAA	VT-DW,RI
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME,RI
NEIFOSAA	VT-DW,RI
Perfluorododecanoic acid (PFDoA)	VT-DW,ME,RI
Perfluorotridecanoic acid (PFTrDA)	VT-DW,ME,RI
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME,RI

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publile Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

Τа	ble	of	Col	nter	1ts

Phone: 413-525-4332 Fax: 413-525-6405

CON-LEST

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1\_03242017

39 Spruce Street East Longmeadow, MA 01028

Page \_\_1\_\_\_ of \_\_\_1\_\_

Orthophosphate Samples N = Nitric Acid S = Suffunc Acid B = Sodium Bisultate X = Sodium Hydroxide T = Sodium 2 Preservation Codes GW = Ground Water WW = Waste Water DW = D⊤aking Water & = Air ² <u>container codes:</u> A ≃ Amber Glass G ≃ Glass S≓ Summa Canister T≅ Tedlar Bag SD = Studge SDL = Solid O = Other (please O=Other (please: define) o = Other (please Dissolved Metals Sa Non Soxblet PCB ONLY 1 Matrix Codes, Soxplet Preservation Code O Field Filtered O. Field Filtered H = HCL M = Methanol Þ ⇒ Plasfic ST = Sfe⊡le V = Vial O Lab to Fitter O Lab to Filter Container Code hiosulfate TRIZMA # of Containers derine P83 define Please use the following codes to indicate possible sample concentration CON-TEST AMUNTE ALL LABORATIONS Chromatogram AIHA-LAP, LLC within the Conc Code column above: H - High; M - Medium; L - Low; C - Clean; U - Unknown ANALYSIS REQUESTED Other WRTA П Ι. × TOTAL As, Fe, HARDNESS, TOC MA MCP Required ACP Certification Form Required RCP Certification Form Required CT RCP Required z School MWRA MA State DW Required MBTA Special Requirements o ЕЬУ ЖЕТНОВ 537 × × × \_  $\Rightarrow$  $\Rightarrow$ Requested Turnaround Time Rush-Approval Required ž × Ѯ Municipality Brownfield # QISMd Data Delivery 10-Day EXCE 3-Day 4-Day CLP Like Data Pkg Required: 口 × × × Detection Limit Requirements Due Date: 5-day TAT PDF Government 
Federal 
City 11:33 (T) 3d Email To: Fax To # Format: 11:21 Other: 7-Day 2-Day 1-Day RUN EPA Method 537: 31 Schumann Dr-3 EXTRACT & HOLD EPA Method 537; 31 Schumann Dr-field blank & 31 Schumann Dr-4 HOLD As, Fe, Hardness, TOC Project Entity Other: 12/7/2017 12/7/2017 12/7/2017 t MA 73 William Franks Drive, West Springfield, MA 15:30 Email: info@contestlabs.com 2/7/17 1830 31 Schumann Dr - ffeld blank Date/Tine: Date/Time: Date/Time: Date/Time: Jate/Time: Date/Time: 2217 31 Schumann Dr, Westfield 31 Schumann Dr, Westfield 31 Schumann Dr - 3 31 Schumann Dr - 4 ATC Group Services Elizabeth O'Connor (413) 781-0070 - 68° 183EM00170 Rob Smith Con-Test Quote Name/Number: Relinquished by: (signature) nquished by: (signature) Mquished by: (signature) Con-Test Work:Order# Ploxue yed by: (stynature) ived by: (signature) ived by: (signature) nvoice Recipient: Project Location: Project Manager: Company Name: Project Number: roject Name: Sampled By: comments Address: hone: Page 11 of 12

39 Spruce St.

East Longmeadow, MA. 01028

P: 413-525-2332 F: 413-525-6405



www.contestlabs.com

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 Time How were the samples In Cooler No Cooler On Ice No Ice received? Direct from Sampling Ambient Melted ice By Gun # Actual Temp -Were samples within By Blank # Temperature? 2-6°C Actual Temp -Was Custody Seal Intact? Were Samples Tampered with? ΛA Was COC Relinquished? Does Chain Agree With Samples? Are there broken/leaking/loose caps on any samples? Is COC in ink/ Legible? Were samples received within holding time? Did COC include all Client Analysis Sampler Name pertinent Information? Project Collection Dates/Times Are Sample labels filled out and legible? Are there Lab to Filters? Who was notified? Are there Rushes? Who was notified? Are there Short Holds? Who was notified? Is there enough Volume? Is there Headspace where applicable? MS/MSD? WA Is splitting samples required? Proper Media/Containers Used? Were trip blanks received? On COC? Do all samples have the proper pH? Acid Base e de line. Wals 1 Liter Amb. 1 Liter Plastic Unp-16 oz Amb. HCL-500 mL Amb. 500 mL Plastic 8oz Amb/Clear Meoh-250 mL Amb. 250 mL Plastic 4oz Amb/Clear Bisulfate-Col./Bacteria Flashpoint 2oz Amb/Clear DI-Other Plastic Other Glass Encore **SOC Kit** Plastic Bag Thiosulfate-Frozen: Sulfuric-Perchlorate Ziplock Unused deda 1 Liter Plastic Unp-1 Liter Amb. 16 oz Amb. 500 mL Amb. 500 mL Plastic HÇL-8oz Amb/Clear Meoh-250 mL Amb. 250 mL Plastic 4oz Amb/Clear Bisulfate-Col./Bacteria Flashpoint 2oz Amb/Clear Other Glass DI-Other Plastic Encore Thiosulfate-SOC Kit Plastic Bag Frozen: Perchlorate Sulfuric-Ziplock Comments:



# Commonwealth of Massachusetts Executive Office of Energy & Environmental Affairs

# Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker Governor

Karyn E. Polito Lieutenant Governor Matthew A. Beaton Secretary

> Martin Suuberg Commissioner

January 3, 2018

Adam Sharon and Allanna Wysocki 1830 East Mountain Road Westfield, MA 01085

RE: Notice of Environmental Sampling

1830 East Mountain Road

Westfield Private Well Sampling

Dear Mr. Sharon & Ms. Wysocki:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on December 7, 2017. The purpose of the sampling was to investigate whether your well has been affected by a release of perfluorinated compounds (PFCs) to local groundwater. The sample was sent to a certified laboratory and analyzed for PFC compounds by modified United States Protection Agency (EPA) Method 317.1. EPA has established a Lifetime Health Advisory level at 70 parts per trillion (ppt), for two specific compounds which have been the most extensively used and studied, PFOA (perfluorooctanoic acid) and PFOS (perfluorooctane sulfonic acid). If both PFOA and PFOS are identified in drinking water the combined concentrations are compared to the 70 ppt health advisory level. The Health Advisory offers a margin of protection from a lifetime of exposure to PFOA and PFOS for all individuals from adverse health effects resulting from exposure from PFOA and PFOS in drinking water. <sup>1</sup>

The sampling result indicated that PFOA and PFOS compounds were not detected in the drinking water sample above the laboratory reporting limit of 2 ppt. Based on this data, no further action, including additional sampling and/or mitigation measures (i.e. bottled water) are required at this time. However, additional sampling may be required in the future. The Department thanks you for granting access to your property.

Notice of Environmental Sampling 1830 East Mountain Road Westfield, RTN: 1-20093 Page 2 of 2

If you have any questions pertaining to this Notice of Environmental Sampling or with the information contained within, please feel free to contact David Bachand at (413) 755-2221 or Cynthia Pawloski at (413) 755-2247.

Sincerely,

Eva Tor

Deputy Regional Director Bureau of Waste Site Cleanup

Attachments: Notice of Environmental Sampling (BWSC-123)

Laboratory Report

ec: Mayor, City of Westfield
Barnes ANG-John Richardson
Barnes Aquifer Protection Committee
Westfield DPW — David Billips
Westfield Health Department
Westfield Councilor Mary Ann Babinski
Dr. Marc A. Nascarella, Ph.D/DPH

cc:

Denise Andler, DEP WERO Data Entry: FOLOFF, FOLFLD

<sup>&</sup>lt;sup>1</sup> Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016



# Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

### **BWSC123**

This Notice is Related to: Release Tracking Number

1	-	20093
<u> </u>	-	20093

# NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of	of the disposal site related to	this Notice	and Release Tracking N	umber (provided above):
1. Street Address	s: 175 Falcon Drive	***************************************	•	•
City/Town: V	Vestfield	Zip Code:	01080	
B. This notice is	being provided to the follow	/ing party:		
1. Name: Adam	Sharon & Allanna Wysocki			
2. Street Address	1830 East Mountain Road			
City/Town: W	/estfield	Zip Code:	01085	
C. This notice is	being given to inform its re	cipient (the	party listed in Section B	:
1. That er	vironmental sampling will be/h	nas been con	ducted at property owned	by the recipient of this notice.
2, Of the	results of environmental samp	ling conducte	ed at property owned by th	e recipient of this notice.
L		,		checked, the analytical results from
	onmental sampling must be att			·
	ne property where the enviro : 1830 East Mountain Road		npling will be/has been o	conducted:
City/Town: W	/estfield	Zip Code:	01085	
-	work during which the samplir	ng will be/has	been conducted:	
<ul><li>✓ Immediate I</li><li>☐ Release Ab</li><li>☐ Utility-relate</li><li>☐ Phase I Init</li></ul>	Response Action atement Measure ed Abatement Measure ial Site Investigation omprehensive Site Assessmen	☐ Phas ☐ Phas ☐ Phas ☐ Post-	e III Feasibility Evaluation e IV Remedy Implementa e V/Remedy Operation St Temporary Solution Opera	
3. Description of	property where sampling will b	e/has been o	conducted:	
<b>v</b> resid	lential commercial	]industrial	☐school/playground	Other(specify)
time of this notice Drinking water	the sampling locations and type. samples were collected finallyzed or PFAS via EPA	rom the pri	vate well located at th	soil gas) to the extent known at the
	nation related to the party pr			
	MA Department of Environmer	ntal Protection	<u>n</u> .	
011001110011	36 Dwight Street		01102	
City/Town: Spring		Zip Code:	01103 vid.bachand.jr@state.ma.	us
Telephone: (413)	7 7 0 7 - 1 1 0 0	Email. do		



## Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

#### **BWSC123**

This Notice is Related to: Release Tracking Number

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- 1	•
	7

20093

# NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

## MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

# THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

# **PURPOSE OF THIS NOTICE**

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

**Section C** on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

**Section D** on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

### FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <a href="http://www.mass.gov/eea/agencies/massdep/cleanup">http://www.mass.gov/eea/agencies/massdep/cleanup</a>. For more information regarding this notice, you may contact the party listed in Section E on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <a href="http://public.dep.state.ma.us/SearchableSites2/Search.aspx">http://public.dep.state.ma.us/SearchableSites2/Search.aspx</a> to view site-specific files on-line or <a href="http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html">http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html</a> if you would like to make an appointment to see these files in person. Please reference the Release Tracking Number listed in the upper right hand corner on the reverse side of this form when making file review appointments.

Revised: 5/30/2014 Page 2 of 2



December 14, 2017

Rob Smith ATC Group Services LLC - West Springfield 73 Williams Franks Drive West Springfield, MA 01089

Project Location: 1830 East Mountain Rd., Westfield, MA

Client Job Number:

Project Number: 183EM00170

Laboratory Work Order Number: 17L0338

Enclosed are results of analyses for samples received by the laboratory on December 7, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Emily Inyd

Emily E. Snyder Project Manager

# Table of Contents

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17L0338-01		. 5
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. В 192943		7
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Chain of Custody/Sample Receipt		10



ATC Group Services LLC - West Springfield

73 Williams Franks Drive West Springfield, MA 01089 ATTN: Rob Smith

REPORT DATE: 12/14/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER:

183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER:

17L0338

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

PROJECT LOCATION:

1830 East Mountain Rd., Westfield, MA

FIELD SAMPLE #

LAB ID:

MATRIX

SAMPLE DESCRIPTION

TEST

SUB LAB

1830 East Mountain Rd-1

17L0338-01 Drinking Water EPA 537



#### 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.

Daren J. Damboragian Director of Operations



Project Location: 1830 East Mountain Rd., Westfie

Sample Description:

Work Order: 17L0338

Date Received: 12/7/2017

Field Sample #: 1830 East Mountain Rd-1

Sampled: 12/7/2017 12:08

Sample ID: 17L0338-01

Sample Matrix: Drinking Water

			N	liscellaneous Org	ganic Analys	es			•	
			MCL/SMC	L		•		Date	Date/Time	
Analyte	Results	RL	MA ORSO	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 19:37	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 19:37	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2,0	2	ng/L	1		EPA 537	12/11/17	12/12/17 19:37	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	. 1		EPA 537	12/11/17	12/12/17 19:37	BLM
Perfluorocctanoic acid (PFOA)	ИD	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 19:37	BLM
Perfluorocetanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 19:37	BLM
Perfluorononanoic acid (PFNA)	ND	2,0	2	ng/L	, 1		EPA 537	12/11/17	12/12/17 19:37	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 19:37	BLM
NMcFOSAA	ND	2.0		ng/L	1		EPA 537	12/11/17	12/12/17 19:37	BLM
Perfluoroundecanoic acid (PFUnA)	ND	- 2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 19:37	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	12/11/17	12/12/17 19:37	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	12/11/17	12/12/17 19:37	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	2	ng/L	1.		EPA 537	12/11/17	12/12/17 19:37	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1	•	EPA 537	12/11/17	12/12/17 19:37	BLM
Surrogates		% Re	covery	Recovery Limits	s	Flag/Qual				
13C-PFHxA		130		70-130					12/12/17 19:37	
13C-PFDA		105		70-130		•			12/12/17 19:37	
d5-NEtFOSAA		123		70-130					12/12/17 19:37	



### Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	· Batch	Initial [mL]	Final [mL]	Date	,
17L0338-01 [1830 East Mountain Rd-1]	B192943	250	1,00	12/11/17	



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

#### Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B192943 - EPA 537										
Blank (B192943-BLK1)				Prepared: 12	/11/17 Anal	yzed: 12/12/1	.7			
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L		,					
Perfluorohexanoic acid (PFHxA)	ND	. 2,0	ng/L							
Perfluoroheptanoie acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	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							
NMeFOSAA ·	ND	2.0	ng/L			•				
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	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			÷				
Surrogate: 13C-PFHxA	35.8		ng/L	40.0		89.5	70-130		i	,
Surrogate: 13C-PFDA	29.2		ng/L	40.0		72.9	70-130			
Surrogate; d5-NEtFOSAA	135		ng/L	160		84.7	70-130			
LCS (B192943-BS1)				Prepared: 12	1/11/17 Anal	yzed: 12/12/	17			
Perfluorobutanesulfonic acid (PFBS)	3.27	2,0	ng/L	3.54		92.3	50-150			
Perfluorohexanoic acid (PFHxA)	2,62	2.0	ng/L	4.00	•	65.5	50-150			
Perfluoroheptanoic acid (PFHpA)	2.70	2.0	ng/L	4.00		67.6	50-150			
erfluorohexanesulfonic acid (PFHxS)	3.94	2.0	ng/L	3.64		108	50-150			
Perfluorooctanoic acid (PFOA)	2,93	2.0	ng/L	4.00		73.3	50-150			
Perfluorooctanesulfonic acid (PFOS)	2.59	2.0	ng/L	3.70		70.0	50-150			
Perfluorononanoic acid (PFNA)	2.89	2.0	ng/L	4.00		72.2	50-150		•	
Perfluorodecanoic acid (PFDA)	2,22	2.0	ng/L	4.00		55.5	50-150			
NMeFOSAA	2.38	2.0	ng/L	4.00		59.5	50-150			
Perfluoroundecanoic acid (PFUnA)	2.44	2.0	ng/L	4.00		60.9	50-150			
VEtFOSAA	2.97	. 2.0	ng/L	4,00		74.3	50-150			
Perfluorododecanoic acid (PFDoA)	2.32	2.0	ng/L	4.00		58.1	50-150			
Perfluorotridecanoic acid (PFTrDA)	2.09	2.0	ng/L	4.00		52.3	50-150		-	
Perfluorotetradecanoic acid (PFTA)	2.15	2.0	ng/L	4.00		53.7	50-150			
Surrogate: 13C-PFHxA	38.8		ng/L	40.0		97.1	70-130			
Surrogate: 13C-PFDA	28.1		ng/L	40.0		70.2	70-130			
Surrogate: d5-NEtFOSAA	143		ng/L	160		89.5	70-130			



#### FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
<b>‡</b>	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
4CL	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 537 in Drinking Water				
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME,RI	,		
Perfluorohexanoic acid (PFHxA)	VT-DW,ME,RI			•
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME,RI			
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME,RI	•		•
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,RI	\$		
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,RI			
Perfluorononanoic acid (PFNA)	VT-DW,ME,RI			
Perfluorodecanoic acid (PFDA)	VT-DW,ME,RI		•	
NMeFOSAA	VT-DW,RI			
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME,RI	-		,
NEtFOSAA	VT-DW,RI			
Perfluorododecanoic acid (PFDoA)	VT-DW,ME,RI			
Perfluorotridecanoic acid (PFTrDA)	VT-DW,ME,RI			
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME,RI	•		

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

Code	Description	Number	Expires	
AIHA	AIHA-LAP, LLC ~ ISO17025:2005	100033	02/1/2018	
MA	Massachusetts DEP	M-MA100	06/30/2018	
CT .	Connecticut Department of Public Health	PH-0567.	09/30/2019	
NY	New York State Department of Health	10899 NELAP	04/1/2018	
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018	
RI	Rhode Island Department of Health	LAO00112	12/30/2018	
NC	North Carolina Div. of Water Quality	652	12/31/2017	
NJ	New Jersey DEP	MA007 NELAP	06/30/2018	
FL.	Florida Department of Health	E871027 NELAP	06/30/2018	
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018	
ME ·	State of Maine	2011028	06/9/2019	
VA	Commonwealth of Virginia	460217	12/14/2017	
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018	
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018	
NC-DW	North Carolina Department of Health	25703	07/31/2018	

Tabi	le d	of C	ont	ent:

PCB ONLY

Soxhlet

Chromatogram AIHA-LAP,LLC

WRTA

MWRA School

Municipality

Government Federal

Project Entity

Date/Time:

quished by: (signature)

ived by: (signature)

Other:

# QISMd

MBTA

Brownfield

Ċij

77

Date/Time:

Other

Non Soxhlet

Dissolved Metals Samples Orthophosphate Samples S = Sulfunc Acid B = Sodium Bisulfate X = Sodium Hydroxide <sup>2</sup> Preservation Codes DW = Drinking Water ³ <u>Container Codes:</u> A = Amber Glass G = Glass GW = Ground Water WW = Waste Water Summa Caniste Page \_1 \_ of \_\_1\_ O = Other (please define) O = Other (please O = Other (please <sup>2</sup> Preservation Code O Field Filtered = Tedlar Bag O Field Filtered Matrix Codes; = Nitric Acid O Lab to Fitter O Lab to Pitter = Methanol <sup>3</sup> Container Code A = Air S = Soil SL = Sludge SOL = Solid r = Sterile Thiosulfate ( Paced - Sodium TRIZMA P = Plastic # of Containers define) derine) HINE CHARLES Please use the following codes to indicate possible sample concentration con-test. ANALYTICAL LABORATORY www.contestiabs.com 39 Spruce Street East Longmeadow, MA 01028 H - High; M - Medium; L - Low; C - Clean; U - Unknown ANALYSIS REQUESTED within the Conc Code column above: Doc # 381 Rev 1\_03242017 I > TOTAL As, Fe, HARDNESS, TOC MA MCP Required MCP Certification Form Required CT RCP Required

RCP Certification Form Required z a. MA State DW Required Special Requirements 0 ۵. EPA METHOD 537 × ×  $\supset$  $\Xi$ http://www.contestlabs.com Wathe CHAIN OF CUSTODY RECORD  $\odot$ ₹ ₹ ₹ Requested Turnaround Rush-Approval Requ 10-Day Data Delivery 4-Day g U 3-Day CLP Like Data Pkg Required: × Ending Composite Due Date: 5-day TAT PQ -& 1830 East Mountain Rd-2 Detection Limit Requirem Email To: 80:21 82 Format: Fax To #: 12:09 Other: 7-Day 1-Day 2-Day 770328 Beginning: Date/Time 12/7/2017 12/7/2017 12/7/2017 IJ 73 William Franks Drive, West Springfield, MA Email: info@contestlabs.com 8 3 3 3 EXTRACT & HOLD EPA Method 537: 1830 East Mountain Rd-field blank 500 1830 East Mountain Rd - field blank 1830 East Mountain Rd, Westfield 1830 East Mountain Rd, Westfield Phone: 413-525-2332 Date/Tyhe: Fax: 413~525-6405 11/12 Date/Time: Date/Time: 1830 East Mountain Rd - 2 1830 East Mountain Rd - 1 Client Sample:ID/ ATC Group Services Elizabeth O'Connor (413) 781-0070 RUN EPA Method 537: 1830 East Mountain Rd-1 183EM00170 Re Rob Smith 7 Con-Test Quote Name/Number: CON-LEST **10LD As, Fe, Hardness, TOC** (e)Inquished by: (signature) inquished by: (signature eived by: (signature) ved by: (signature) BY BOY CONTRACTOR Test IN Work Order# nvoice Recipient: Company Name: Project Location: Project Manager: Project Number: Project Name: sampled By: omments: Address: Phone: Page 10 of 11 39 Spruce St.

East Longmeadow, MA. 01028

P: 413-525-2332 F: 413-525-6405



www.contestlabs.com

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	47(	ر .							
Received B	У	RLF		Date	19/7	17	Time	153	
How were the sa	mples	In Cooler .	77	No Cooler_		On Ice	T	No Ice	
received?		Direct from Samp	ling	. –	_	Ambient		Melted Ice	
Were samples v	vithin		By Gun #	557		Actual Tem	p- 4.0	- C	
Temperature? 2		-T	By Blank #			Actual Tem	p -		
•		eal Intact?	MA	Wer		Tampered	<del></del>	MA	•
Was CO		·	T	Does	Chain Agr	ee With Sai	mples?	T	,
Are there br	oken/le	eaking/loose caps	on any sam	ples?	F				
Is COC in ink/ Le	gible?	T.		Were sam	ples receiv		olding time?	T	•
Did COC includ	le all	Client	T	Analysis _	T	•	er Name		
pertinent Informa	ation?	Project	T	· ID's	T	Collection	Dates/Times		
Are Sample labe	ls filled	out and legible?	て						
Are there Lab to I	Filters?	•	F			notified?			
Are there Rushes	?		F		Who was	notified?			
Are there Short H	lolds?		F		Who was	notified?			
Is there enough V	/olume	?	T			,			
Is there Headspa-	ce whe	re applicable?	F		MS/MSD?				
Proper Media/Cor	ntainer	s Used?				samples rec	uired?	F	
Were trip blanks	receive	:d?	<u> </u>		On COC?	MA		*	
Do all samples ha	ave the	proper pH?		Acid _	<u>T</u>		Base	<u></u>	
Vials	#	Containers.	#			#			
Unp-		1 Liter Amb.		1 Liter F				: Amb.	
HCL- ć	9	500 mL Amb.		500 mL		····		nb/Clear	
Meoh-		250 mL Amb.	·	250 mL		_3	4oz Am		
Bisulfate-		Col./Bacteria		Flash		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<del></del>	nb/Clear	
DI-		Other Plastic		Other (				core	
Thiosulfate-		SOC Kit		Plastic			Frozen:	-	
Sulfuric-	3/35/36/32	Perchlorate		Ziplo					
				Unused N	edia				
	t e	Containers	#			#	40	A (-	, j
Uṇp-		1 Liter Amb.		1 Liter F				Amb.	
HCL-		500 mL Amb.		500 mL				nb/Clear	
Meoh-		250 mL Amb.		250 mL				nb/Clear nb/Clear	
Bisulfate-		Col./Bacteria		Flashp Other 0				core	
DI-		Other Plastic SOC Kit		Plastic			Frozen:	JUI G	
Thiosulfate- Sulfuric-		Perchlorate		Ziplo			, 102011.		
Juliunu-		i diginorate	1	جابان	OIL.			<del></del>	

samples received with PHK2