

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

Mayor Brian P. Sullivan 59 Court Street - Room 202 Westfield, MA 01085 August 2, 2017

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 forty-six (46) private wells and have issued seventy-eight (78) access agreement letters. MassDEP is continuing to call individuals who have received access agreement letters to schedule sampling. 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 (2) of the private well sampling results indicate PFCs were not detected above the laboratory reporting level, which is now down to 2 ppt. In the table these are shown as ND for Non Detect.

Three (3) of the results of the sampling results 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 forty- six (46) private well sampled to date:

Address	Date Sampled	Laboratory Results for PFOA + PFOS (70 ppt Advisory)
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	6/27/2017	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 Rd	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. MassDEP is continuing to sample private wells and will keep the City, its citizens and Barnes Air National Guard Base apprised of the results as we receive them. A copy of all of the laboratory results is accessible through the City of Westfield's website and can be viewed at 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

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



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Charles D. Baker Governor

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Martin Suuberg Commissioner

August 2, 2017

Tina Siniscalchi 253 Buck Pond Road Westfield, MA 01085

Re:

Notice of Environmental Sampling

253 Buck Pond Road

Westfield Private Well Sampling

RTN 1-20093

Dear Ms. Siniscalchi:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on June 27, 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 ¹

The sampling result indicates PFOA and PFOS compounds were not detected above the laboratory reporting limit of 2 ppt. Based on the absence of detectable PFC compounds in the sample collected from your well, no further action, including additional sampling and/or mitigation measures (i.e. bottled water) are required at this time. The Department thanks you for granting access to your property.

Notice of Environmental Sampling 253 Buck Pond Road Westfield, RTN 1-20093 August 2, 2017 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 Billins

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

¹ Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

FREQUENTLY ASKED QUESTIONS ABOUT MASSDEP'S ACCESS AND CONSENT TO ENTER PROPERTY AGREEMENTS

1. Why does MassDEP need access to my property?

The Massachusetts Department of Environmental Protection (MassDEP) is the state agency responsible under state law, Massachusetts General Laws Chapter 21E (Chapter 21E), for regulating responses to the release or threat of release of oil or hazardous materials into the environment. As part of its legal responsibilities, MassDEP sometimes needs to enter property to assess, contain and/or remove contamination in order to protect public health, safety, welfare and the environment. MassDEP's authority for seeking property access for this work is found in Sections 4 and 8 of Chapter 21E.

2. Am I responsible for any contamination that is found on my property?

Sometimes. Section 5 of Chapter 21E provides that the owner of property where a release or threat of release of oil or hazardous materials into the environment has occurred or come to be located (the "Site") is responsible for the cleanup of that contamination. MassDEP assigns a Release Tracking Number to each Site. Typically, MassDEP notifies owners of Sites of their responsibility for cleanup by means of a letter called a "Notice of Responsibility" before requesting access onto the Site.

However, MassDEP sometimes seeks access onto property, which has not been identified as part of a Site, to investigate and ensure that contamination has not migrated from a nearby Site onto the property (for example, when underground gasoline contamination migrates through groundwater into adjacent properties with private water supply wells). The goal of MassDEP's investigation in such cases is to protect the public health and safety of the adjacent property owners, as well as the environment. In many instances, the owner of the property that is not the source of the release will not be required to clean up migrating surface or groundwater contamination, for example, if the owner qualifies for a special status known as Downgradient Property Status ("DPS"). A DPS property owner will not in most instances be required to clean up the migrating contamination, although the owner may be responsible to address any immediate concerns on the property (e.g., explosive or toxic vapors seeping into a building).

3. Will I need to pay for the work MassDEP performs on my property?

Maybe. As discussed above, a property owner is usually responsible for the cleanup of contamination on his or her property. Chapter 21E also authorizes MassDEP to clean up the contamination itself and then seek repayment from the parties responsible for the cleanup. MassDEP may exercise its authority to perform cleanup work if, for example, parties are unwilling or unable to do the cleanup themselves. MassDEP may also place liens on property owned by parties' responsible for the cleanup.

Just as a DPS property owner will usually not be responsible for doing cleanup, a DPS property owner will also usually not be responsible for MassDEP's cleanup costs or have liens placed on its property.

4. Can I be present on the property while MassDEP performs the work?

Generally, property owners can be present while MassDEP is performing its work activities, provided that property owners do not disrupt or interfere with the work activities and comply with any health and safety measures or legal requirements to ensure a property owner's safety during the work activities.

5. <u>Can my Licensed Site Professional obtain samples from the work MassDEP is performing on my property?</u>

A Site owner who has retained a Licensed Site Professional ("LSP," an individual who is specially licensed by the state and is hired by Site owners to clean up contaminated properties) can have the LSP

present on the property during MassDEP work activities, and the LSP can obtain duplicate samples from MassDEP upon request, as long as the duplicate sampling analysis requested by the LSP is paid for by the Site owner.

6. Do I have to allow MassDEP access to my property?

A property owner can always refuse to grant MassDEP access onto his or her property. Because MassDEP's goal in seeking access onto property is to protect public health, safety, welfare and the environment, MassDEP will always try to work cooperatively with property owners to obtain voluntary access in a way that minimizes any disruption or inconvenience to the property owner. Where a property owner does refuse to grant MassDEP access, however, MassDEP has the right under Section 8 of Chapter 21E to seek a court order permitting MassDEP entry onto the property to perform any work required to protect public health, safety, welfare and the environment.

7. Can I ask MassDEP to alter its work schedule to minimize disruption to my business or tenants?

MassDEP will always work cooperatively with property owners to minimize any disruption to business, commercial activities and/or property tenants when seeking access.

8. Will MassDEP reimburse me for any damage done to the property as a result of cleanup activities?

MassDEP's contractors all carry insurance to cover the work activities being performed on the property and upon request, the property owner can obtain a Certificate of Insurance (listing the property owner as an additional insured) from each MassDEP contractor involved in the project. Upon completion of the work, MassDEP will make reasonable efforts to restore the areas of the property where the work activities occurred to its prior condition.

9. <u>Will MassDEP reimburse or compensate me for any loss caused by contamination found on my property?</u>

No. As noted in Question 2 above, property owners of a Site are responsible under Chapter 21E for the cleanup of contamination on, and migrating from the Site. In addition, there may be circumstances under which downgradient property owners may be responsible for the costs of activities required to address any immediate concerns that result from contaminant migration.

PFOS and PFOA in Drinking Water

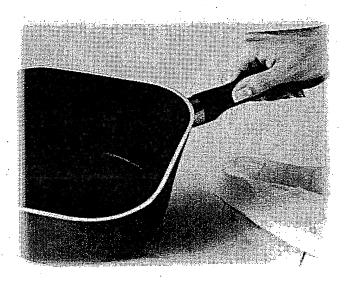
This fact sheet answers frequently asked questions about the detection of Perfluorooctanoic acid (PFOA) and Perfluorooctane sulfonate (PFOS) in drinking water. The US Environmental Protection Agency (US EPA) updated the lifetime health advisory (HA) level, and we would like to inform and update you on what it means.

WHAT ARE PFOA AND PFOS?

PFOA and PFOS are fluorinated organic chemicals that are part of a larger group of chemicals referred to as perfluoroalkyl substances (PFAs). PFOA and PFOS have been the most extensively produced and studied of these chemicals. They have been used to make carpets, clothing, fabrics for furniture, paper packaging for food, and other materials (e.g., cookware) that are resistant to water, grease or stains. They are also used in aqueous firefighting foam and in a number of industrial processes. Because these chemicals have been used in an array of consumer products, most people have been exposed to them.

Many PFAs are no longer being produced in this country; the largest manufacturer completely stopped PFOA/PFOS production in 2002. PFAs are still being produced in other countries and may be imported into the US in limited quantities. The EPA and the PFA industry launched the PFOA Stewardship Program in 2006 to work toward ending the production of PFOA and other PFAs.

While consumer products and food are a large source of exposure for most people, drinking water can be an additional source in the small percentage of communities where these chemicals have contaminated water supplies. Such contamination is typically localized and associated with a specific facility (e.g. an industrial facility where these chemicals were produced or used to manufacture other products or where firefighting foam was used).



HOW ARE PFOS/PFOA REGULATED?

Because they are emerging contaminants, there are currently no established regulatory limits for levels in drinking water. The US EPA has recently set a health advisory level (HA) of 0.07 micrograms per liter (µg/L) for both PFOS and PFOA in May 2016.

HOW CAN PFOS/PFOA AFFECT MY HEALTH?

There are many gaps in the current scientific literature, but it is believed that PFAs may affect human health. Most research is based on animal studies and scientists are still unsure of the difference between how animals and humans respond to PFAs. They are associated with changes in thyroid, liver, and kidney function, as well changes in hormone levels. These two chemicals have also been shown to cause developmental effects to fetuses during pregnancy and in breastfed infants.

CAN PFAS CAUSE CANCER?

There is no conclusive evidence that PFAs cause cancer, though several animal studies and legal cases have identified a possible link between them. The EPA reports there is suggestive evidence that these chemicals can increase the risk of cancer. Both the EPA and the National Toxicology Program are continuing research on the cancer potential of PFAs.

WHAT IS MY RISK IF I DRANK WATER ABOVE THE HEALTH ADVISORY LEVEL?

Drinking water at a level above EPA's HA does not necessarily mean that health risks are expected. This is because the HA is based on a level that is safe to drink for an entire lifetime. By convention, a value such as the HA is used as a "screening" value that is designed to overestimate exposure and ensure that sensitive individuals are protected. example, the HA assumes that individuals drink only contaminated water and are also exposed to PFAs from sources beyond drinking water, such as food. Several safety factors are additionally applied to account for the differences between animals and humans and the differences from one human to another human. Under this scenario, a risk would be expected only if an individual continuously drinks only contaminated water at a level higher than the HA.

WHAT SHOULD I DO TO LIMIT EXPOSURE?

PFAs are found at low levels in the environment, in consumer products, and food, so it is nearly impossible to eliminate all exposure. If you live near a site where PFA contamination has been identified, there are several ways to limit your exposure such as drinking and cooking with bottled water, and using pre-mixed baby formula, or bottled water for reconstituting powdered formula. Using contaminated water for routine showering and bathing are not significant sources of exposure.



WHERE CAN I GET MORE INFORMATION?

For questions about drinking water quality contact the:

MassDEP Drinking Water Program

617-292-5770

Program.Director-DWP@state.ma.us

http://www.mass.gov/eea/agencies/massdep/water/drinking/is-there-copper-in-my-tap-water.html

For health-related questions contact the:

Environmental Toxicology Program Bureau of Environmental Health, MDPH

250 Washington Street, 7th Floor, Boston, MA 02108

Phone: 617-624-5757 | Fax: 617-624-5777 | TTY: 617-624-5286

US EPA's Drinking Water Health Advisories

https://www.epa.gov/ground-water-and-drinking-water/drinking-water-health-advisories-pfoa-and-pfos

Images courtesy of Richard Duncan and Debora Cartagena at the Centers for Disease Control and Prevention.



July 2016



July 13, 2017

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

Project Location: 253 Buck Pond Rd., Westfield

Client Job Number:

Project Number: 183EM00170

Laboratory Work Order Number: 17F1644

Keny K. Mille

Enclosed are results of analyses for samples received by the laboratory on June 28, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee 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: 7/13/2017

PROJECT NUMBER:

183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER:

17F1644

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

PROJECT LOCATION:

253 Buck Pond Rd., Westfield

FIELD SAMPLE #

LAB ID:

MATRIX

SAMPLE DESCRIPTION

TEST

SUB LAB

253 Buck Pond Rd-1

17F1644-01

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.

EPA 537

Qualifications:

S-18

Surrogate recovery is outside of control limits, matrix interference suspected. Insufficient sample available for reanalysis.

Analyte & Samples(s) Qualified:

d5-NEtFOSAA

17F1644-01[253 Buck Pond Rd-1]

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

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski Laboratory Director



Project Location: 253 Buck Pond Rd., Westfield

Sample Description:

Work Order: 17F1644

Date Received: 6/28/2017

Field Sample #: 253 Buck Pond Rd-1

Sampled: 6/27/2017 11:04

Sample ID: 17F1644-01

Sample Matrix: Drinking Water

			Mis	cellaneous Org	anic Analys	es				
			MCL/SMCL					Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1 .		EPA 537	7/6/17	7/12/17 22:20	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluoropentanoic acid (PFPeA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Surrogates		% Rec	overy R	ecovery Limits		Flag/Qual				
13C-PFHxA		125		70-130					7/12/17 22:20	
13C-PFDA		129		70-130					7/12/17 22:20	
d5-NEtFOSAA		133	*	70-130		S-18			7/12/17 22:20	



Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17F1644-01 [253 Buck Pond Rd-1]	B181002	250	1.00	07/06/17



QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

		Reporting	TT :	Spike	Source	0/DEC	%REC	מחמ	RPD	Note:
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B181002 - EPA 537										
Blank (B181002-BLK1)				Prepared: 0'	7/06/17 Anal	yzed: 07/12/	17			
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	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							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	35.3		ng/L	40.0		88.2	70-130			
Surrogate: 13C-PFDA	41.8		ng/L	40.0		105	70-130			
Surrogate: d5-NEtFOSAA	172		ng/L	160		107	70-130			
LCS (B181002-BS1)				Prepared: 0	7/06/17 Anal	yzed: 07/12/	17			
Perfluoroundecanoic acid (PFUnA)	25.4	2.0	ng/L	20.0		127	70-130			
Perfluorotridecanoic acid (PFTrDA)	21.0	2.0	ng/L	20.0		105	70-130			
Perfluorotetradecanoic acid (PFTA)	20,6	2.0	ng/L	20.0		103	70-130			
Perfluorooctanoic acid (PFOA)	17.6	2.0	ng/L	20.0		87.9	70-130			
Perfluorooctanesulfonic acid (PFOS)	19.7	2.0	ng/L	18.5		107	70-130			
Perfluorononanoic acid (PFNA)	18.7	2.0	ng/L	20.0		93.5	70-130			
Perfluorohexanoic acid (PFHxA)	19.6	2.0	ng/L	20.0		97.9	70-130			
Perfluorohexanesulfonic acid (PFHxS)	15.8	2.0	ng/L	18.2		86.9	70-130			
Perfluoroheptanoic acid (PFHpA)	16.7	2.0	ng/L	20.0		83.5	70-130			
Perfluorododecanoic acid (PFDoA)	20.8	2.0	ng/L	20.0		104	70-130			
Perfluorodecanoic acid (PFDA)	20.9	2.0	ng/L	20.0		104	70-130			
Perfluorobutanesulfonic acid (PFBS)	16.0	2.0	ng/L	17.7		90.6	70-130			
NEtFOSAA	22.4	2.0	ng/L	20.0		112	70-130			
NMeFOSAA	19.2	2.0	ng/L	20.0		95.8	70-130			
Surrogate: 13C-PFHxA	39.7		ng/L	40.0		99.3	70-130			
Surrogate: 13C-PFDA	45.7		ng/L	40.0		114	70-130			
Surrogate: d5-NEtFOSAA	198		ng/L	160		123	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
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
S-18	Surrogate recovery is outside of control limits, matrix interference suspected. Insufficient sample available for reanalysis.



CERTIFICATIONS

Certified Analyses included in this Report

EPA 537 in Drinking Water

NH,NY

Certifications

Perfluorooctanesulfonic acid (PFOS)

NH,NY

Perfluoropentanoic acid (PFPeA)

Perfluorooctanoic acid (PFOA)

NH

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	09/30/2017
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	12/30/2017
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	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

PH9171 Phone: 413-525-2332

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1_03242017

39 Spruce Street East Longmeadow, MA 01028

Page_1_ of

Table of Contents Dissolved Metals Samples ² Preservation Codes: I = Iced X = Sodium Hydroxide S = Sulfuric Acid B = Sodium Bisulfate DW = Drinking Water GW = Ground Water 3 Container Codes: S = Summa Canister WW = Waste Water 0 = Other (please O = Other (please 0 = Other (please TRIZMA A = Amber Glass PCB ONLY ² Preservation Code **Orthophosphate** T = Tedlar Bag N = Nitric Acid O Field Filtered 1 Matrix Codes O Field Filtered O Lab to Filter O Lab to Filter M = Methanol P = Plasfic ST = Sterile Container Code SL = Sludge r = Sodium Thiosulfate SOL = Solid V = Vial # of Containers S = Soil G = Glass define) 구보 define) A = Air define) Please use the following codes to indicate possible sample concentration CON-KESK® Chromatogram rum.cortestlabs.com H - High; M - Medium; L - Low; C - Clean; U - Unknown REQUESTED within the Conc Code column above: Other ANALYSIS WRTA I MCP Certification Form Required CT RCP Required RCP Certification Form Required MA MCP Required × z TOTAL As, Fe, HARDNESS, TOC MWRA MA State DW Required Special Requirements 0 ۵ × × × EPA METHOD 537 Email Tokob. SmitroffChanis \supset \supset \supset Grab Matrix Code > Ã ≧ Municipality M∆ # QISMd 10-Day Data Delivery EXCEL 3-Day 4-Day CLP Like Data Pkg Required: × × × Endlig Composite Date/Time Composite Due Date: 5-day TAT Detection Limit Requirements 집 Government Fax To #: Format: 1055 1104 1106 Other: 7-Day l-Day EXTRACT & HOLD EPA Method 537: 253 Buck Pond Rd-field blank & 253 Buck Pond Rd-2 -Day Project Entity Beginning | | Date/Time || 6/27/2017 6/27/2017 6/27/2017 Ω Other: MA 73 William Franks Drive, West Springfield, MA Email: info@contestlabs.com 00:01 7 1810 6-2717 1630 637-17/630 10. 253 Buck Pond Rd - field blank Date/Time: Fax; 413-525-6405 253 Buck Pond Rd, Westfield 253 Buck Pond Rd, Westfield Date/Time: Date/Time: Date/Time: 253 Buck Pond Rd - 1 253 Buck Pond Rd - 2 ATC Group Services (413) 781-0070 Joseph Bolduc 183EM00170 Rob Smith RUN EPA Method 537: 253 Buck Pond Rd-1 Received by: (signature) Con-Test Quote Name/Number: CON-LEST ANAUTICAL LABORATORY HOLD As, Fe, Hardness, TOC Relinquished by: (signature) quished by: (signature) eceived by: (signature) Con-Test Work Order# Invoice Recipient: Company Name: Project Location: Project Number: Project Manager: Project Name: Sampled By: Comments: TA Address: Phone: Page 10 of 11

Non Soxhlet

AIHA-LAP, LLC

School

MBTA

Brownfield

Federal

City

10:35

17.86.9

Date/Time:

Soxhlet

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	ATC	will be brough					4		
Receive	ed By	PB		Date	6.28	,17	Time	10:35	
How were th	e samples	In Cooler	<u> </u>	No Cooler		On Ice	<u> </u>	_ No Ice	
receiv	ed?	Direct From	Sample			Ambient		Melted Ice	
Were samp	lee within	Dij Cott Tom	By Gun#	1		Actual Temp	- 4.1	•	
Temperatur		~	By Blank #			Actual Temp			
	Custody Sea	al Intact?	NA		Were Sa	mples Tampe	red with?	F	
	COC Reling		<u></u>	Does Cha	in Agree Wit	h Samples?	1		
		aking/loose car		moles?	F				
ls COC in inl		-	•	Were sar	nples receive	ed within holdi	ng time?		
Did COC in		Client?	T	Analysis?		Sampler			
pertinent Inf		Project?	T	ID's?		Collection Da	ates/Times	? <u> </u>	
Are Sar	nple labels	filled out and le	gible?						
	nere Lab to		F		_	s notified?			
Are there F		E			notified?		r		
Are there Sh		F		Who was	notified?				.,,,,
	re enough \		Т						
is there	e Headspac	ce where applica	able?	E	MS/MSD?		·		
Proper M	edia/Contai	iners Used?	<u> </u>			mples require	F		
Were TB's re	ceived?	<u> </u>			On COC?	NA	Base	· · · · · · · · · · · · · · · · · · ·	
Do All	Samples H	ave the proper	pH? —	Acid	77		Dase		
Y. (1)		40.001.0025			51		16	oz Amb.	T
Unp-		1 Liter Amb.			Plastic			Amb/Clear	+
HCL-		500 mL Amb.			Plastic	<u>a</u>		Amb/Clear	+
Meoh-		250 mL Amb.			Plastic			Amb/Clear	+
Bisulfate-	.,	Col./Bacteria			point Glass			Encore	1
DI-		Other Plastic			ic Bag	 	Frozen:		
Thiosulfate-		SOC Kit Perchlorate			lock		, , , , , , , , , , , , , , , , , , , ,		
Sulfuric-	respondente de la companya de la co	Perchiorate							
				r Filmin	CARUEI E SE				
							4.6	oz Amb.	
Unp-		1 Liter Amb.			Plastic			Amb/Clear	
HCL-		500 mL Amb.			Plastic			Amb/Clear	-
Meoh-		250 mL Amb.			Plastic			Amb/Clear	
Bisulfate-		Col./Bacteria	 		hpoint			Encore	+
DI-		Other Plastic			Glass		Frozen:	LIIGOIC	
Thiosulfate-		SOC Kit	<u> </u>		ic Bag lock		1 102011.		
Sulfuric-		Perchlorate		Zip	NOCK				
Comments:							THE RESERVE THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLU		****
									,



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

August 2, 2017

Susan Lorow & James Morse 229 Buck Pond Road Westfield, MA 01085

RE:

Notice of Environmental Sampling

229 Buck Pond Road

Westfield Private Well Sampling

Dear Ms. Lorow & Mr. Morse:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on June 27, 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. ¹

The sampling result indicated a total PFOA and PFOS concentration of 13 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. In order to confirm this result, MassDEP will contact you to resample your well. MassDEP will also sample wells in the vicinity of your area in order to gather additional information. The Department thanks you for granting access to your property.

Notice of Environmental Sampling 229 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 information n 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-Joh n 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

FREQUENTLY ASKED QUESTIONS ABOUT MASSDEP'S ACCESS AND CONSENT TO ENTER PROPERTY AGREEMENTS

1. Why does MassDEP need access to my property?

The Massachusetts Department of Environmental Protection (MassDEP) is the state agency responsible under state law, Massachusetts General Laws Chapter 21E (Chapter 21E), for regulating responses to the release or threat of release of oil or hazardous materials into the environment. As part of its legal responsibilities, MassDEP sometimes needs to enter property to assess, contain and/or remove contamination in order to protect public health, safety, welfare and the environment. MassDEP's authority for seeking property access for this work is found in Sections 4 and 8 of Chapter 21E.

2. Am I responsible for any contamination that is found on my property?

Sometimes. Section 5 of Chapter 21E provides that the owner of property where a release or threat of release of oil or hazardous materials into the environment has occurred or come to be located (the "Site") is responsible for the cleanup of that contamination. MassDEP assigns a Release Tracking Number to each Site. Typically, MassDEP notifies owners of Sites of their responsibility for cleanup by means of a letter called a "Notice of Responsibility" before requesting access onto the Site.

However, MassDEP sometimes seeks access onto property, which has not been identified as part of a Site, to investigate and ensure that contamination has not migrated from a nearby Site onto the property (for example, when underground gasoline contamination migrates through groundwater into adjacent properties with private water supply wells). The goal of MassDEP's investigation in such cases is to protect the public health and safety of the adjacent property owners, as well as the environment. In many instances, the owner of the property that is not the source of the release will not be required to clean up migrating surface or groundwater contamination, for example, if the owner qualifies for a special status known as Downgradient Property Status ("DPS"). A DPS property owner will not in most instances be required to clean up the migrating contamination, although the owner may be responsible to address any immediate concerns on the property (e.g., explosive or toxic vapors seeping into a building).

3. Will I need to pay for the work MassDEP performs on my property?

Maybe. As discussed above, a property owner is usually responsible for the cleanup of contamination on his or her property. Chapter 21E also authorizes MassDEP to clean up the contamination itself and then seek repayment from the parties responsible for the cleanup. MassDEP may exercise its authority to perform cleanup work if, for example, parties are unwilling or unable to do the cleanup themselves. MassDEP may also place liens on property owned by parties' responsible for the cleanup.

Just as a DPS property owner will usually not be responsible for doing cleanup, a DPS property owner will also usually not be responsible for MassDEP's cleanup costs or have liens placed on its property.

4. Can I be present on the property while MassDEP performs the work?

Generally, property owners can be present while MassDEP is performing its work activities, provided that property owners do not disrupt or interfere with the work activities and comply with any health and safety measures or legal requirements to ensure a property owner's safety during the work activities.

5. <u>Can my Licensed Site Professional obtain samples from the work MassDEP is performing on my property?</u>

A Site owner who has retained a Licensed Site Professional ("LSP," an individual who is specially licensed by the state and is hired by Site owners to clean up contaminated properties) can have the LSP

present on the property during MassDEP work activities, and the LSP can obtain duplicate samples from MassDEP upon request, as long as the duplicate sampling analysis requested by the LSP is paid for by the Site owner.

6. Do I have to allow MassDEP access to my property?

A property owner can always refuse to grant MassDEP access onto his or her property. Because MassDEP's goal in seeking access onto property is to protect public health, safety, welfare and the environment, MassDEP will always try to work cooperatively with property owners to obtain voluntary access in a way that minimizes any disruption or inconvenience to the property owner. Where a property owner does refuse to grant MassDEP access, however, MassDEP has the right under Section 8 of Chapter 21E to seek a court order permitting MassDEP entry onto the property to perform any work required to protect public health, safety, welfare and the environment.

7. Can I ask MassDEP to alter its work schedule to minimize disruption to my business or tenants?

MassDEP will always work cooperatively with property owners to minimize any disruption to business, commercial activities and/or property tenants when seeking access.

8. Will MassDEP reimburse me for any damage done to the property as a result of cleanup activities?

MassDEP's contractors all carry insurance to cover the work activities being performed on the property and upon request, the property owner can obtain a Certificate of Insurance (listing the property owner as an additional insured) from each MassDEP contractor involved in the project. Upon completion of the work, MassDEP will make reasonable efforts to restore the areas of the property where the work activities occurred to its prior condition.

9. <u>Will MassDEP reimburse or compensate me for any loss caused by contamination found on my property?</u>

No. As noted in Question 2 above, property owners of a Site are responsible under Chapter 21E for the cleanup of contamination on, and migrating from the Site. In addition, there may be circumstances under which downgradient property owners may be responsible for the costs of activities required to address any immediate concerns that result from contaminant migration.

PFOS and PFOA in Drinking Water

This fact sheet answers frequently asked questions about the detection of Perfluorooctanoic acid (PFOA) and Perfluorooctane sulfonate (PFOS) in drinking water. The US Environmental Protection Agency (US EPA) updated the lifetime health advisory (HA) level, and we would like to inform and update you on what it means.

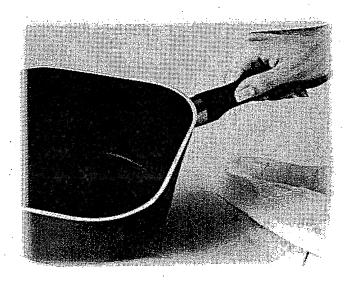
WHAT ARE PFOA AND PFOS?

PFOA and PFOS are fluorinated organic chemicals that are part of a larger group of chemicals referred to as perfluoroalkyl substances (PFAs). PFOA and PFOS have been the most extensively produced and studied of these chemicals. They have been used to make carpets, clothing, fabrics for furniture, paper packaging for food, and other materials (e.g., cookware) that are resistant to water, grease or stains. They are also used in aqueous firefighting foam and in a number of industrial processes. Because these chemicals have been used in an array of consumer products, most people have been exposed to them.

Many PFAs are no longer being produced in this country; the largest manufacturer completely stopped PFOA/PFOS production in 2002. PFAs are still being produced in other countries and may be imported into the US in limited quantities. The EPA and the PFA industry launched the PFOA Stewardship Program in 2006 to work toward ending the production of PFOA and other PFAs.

While consumer products and food are a large source of exposure for most people, drinking water can be an additional source in the small percentage of communities where these chemicals have contaminated water supplies. Such contamination is typically localized and

associated with a specific facility (e.g. an industrial facility where these chemicals were produced or used to manufacture other products or where firefighting foam was used).



HOW ARE PFOS/PFOA REGULATED?

Because they are emerging contaminants, there are currently no established regulatory limits for levels in drinking water. The US EPA has recently set a health advisory level (HA) of 0.07 micrograms per liter (µg/L) for both PFOS and PFOA in May 2016.

HOW CAN PFOS/PFOA AFFECT MY HEALTH?

There are many gaps in the current scientific literature, but it is believed that PFAs may affect human health. Most research is based on animal studies and scientists are still unsure of the difference between how animals and humans respond to PFAs. They are associated with changes in thyroid, liver, and kidney function, as well changes in hormone levels. These two chemicals have also been shown to cause developmental effects to fetuses during pregnancy and in breastfed infants.

CAN PFAs CAUSE CANCER?

There is no conclusive evidence that PFAs cause cancer, though several animal studies and legal cases have identified a possible link between them. The EPA reports there is suggestive evidence that these chemicals can increase the risk of cancer. Both the EPA and the National Toxicology Program are continuing research on the cancer potential of PFAs.

WHAT IS MY RISK IF I DRANK WATER ABOVE THE HEALTH ADVISORY LEVEL?

Drinking water at a level above EPA's HA does not necessarily mean that health risks are expected. This is because the HA is based on a level that is safe to drink for an entire lifetime. By convention, a value such as the HA is used as a "screening" value that is designed to overestimate exposure and ensure that sensitive individuals are protected. example, the HA assumes that individuals drink only contaminated water and are also exposed to PFAs from sources beyond drinking water, such as food. Several safety factors are additionally applied to account for the differences between animals and humans and the differences from one human to another human. Under this scenario, a risk would be expected only if an individual continuously drinks only contaminated water at a level higher than the HA.

WHAT SHOULD I DO TO LIMIT EXPOSURE?

PFAs are found at low levels in the environment, in consumer products, and food, so it is nearly impossible to eliminate all exposure. If you live near a site where PFA contamination has been identified, there are several ways to limit your exposure such as drinking and cooking with bottled water, and using pre-mixed baby formula, or bottled water for reconstituting powdered formula. Using contaminated water for routine showering and bathing are not significant sources of exposure.



WHERE CAN I GET MORE INFORMATION?

For questions about drinking water quality contact the:

MassDEP Drinking Water Program

617-292-5770

Program.Director-DWP@state.ma.us

http://www.mass.gov/eea/agencies/massdep/water/drinking/is-there-copper-in-my-tap-water.html

For health-related questions contact the:

Environmental Toxicology Program Bureau of Environmental Health, MDPH

250 Washington Street, 7th Floor, Boston, MA 02108

Phone: 617-624-5757 | Fax: 617-624-5777 | TTY: 617-624-5286

US EPA's Drinking Water Health Advisories

https://www.epa.gov/ground-water-and-drinking-water/drinking-water-health-advisories-pfoa-and-pfos

Images courtesy of Richard Duncan and Debora Cartagena at the Centers for Disease Control and Prevention.



July 2016



July 13, 2017

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

Project Location: 229 Buck Pond Rd., Westfield

Client Job Number:

Project Number: 183EM00170

Laboratory Work Order Number: 17F1642

Keny K. Mille

Enclosed are results of analyses for samples received by the laboratory on June 28, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee Project Manager

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

PURCHASE ORDER NUMBER:

REPORT DATE: 7/13/2017

PROJECT NUMBER:

183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER:

17F1642

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

PROJECT LOCATION:

229 Buck Pond Rd., Westfield

FIELD SAMPLE #

ATTN: Rob Smith

LAB ID:

MATRIX

SAMPLE DESCRIPTION

TEST

SUB LAB

229 Buck Pond Rd-1

17F1642-01

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.

Tod E. Kopyscinski Laboratory Director



Project Location: 229 Buck Pond Rd., Westfield

Sample Description:

Work Order: 17F1642

Date Received: 6/28/2017

Field Sample #: 229 Buck Pond Rd-1

Sampled: 6/24/2017 10:35

Sample ID: 17F1642-01

Sample Matrix: Drinking Water

			Miscel	llaneous Org	anic Analys	es				
			MCL/SMCL					Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1	•	EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluorooctanoic acid (PFOA)	8.9	2.0		ng/L	1	•	EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluorooctanesulfonic acid (PFOS)	3.7	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluorohexanoic acid (PFHxA)	2.9	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluorohexanesulfonic acid (PFHxS)	3.2	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluorobutanesulfonic acid (PFBS)	6.0	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluoropentanoic acid (PFPeA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
Surrogates		% Reco	very Reco	overy Limits		Flag/Qual				
13C-PFHxA		123		70-130					7/12/17 22:07	
13C-PFDA		129		70-130					7/12/17 22:07	
d5-NEtFOSAA		128		70-130					7/12/17 22:07	



Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17F1642-01 [229 Buck Pond Rd-1]	B181002	250	1.00	07/06/17



QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B181002 - EPA 537										
Blank (B181002-BLK1)				Prepared: 0'	7/06/17 Anal	yzed: 07/12/	/17			
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L				***************************************			
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	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							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	35.3		ng/L	40.0		88.2	70-130			
Surrogate: 13C-PFDA	41.8		ng/L	40.0		105	70-130			
Surrogate: d5-NEtFOSAA	172		ng/L	160		107	70-130			
LCS (B181002-BS1)				Prepared: 0	7/06/17 Anal	yzed: 07/12.	/17			
Perfluoroundecanoic acid (PFUnA)	25.4	2.0	ng/L	20.0		127	70-130			
Perfluorotridecanoic acid (PFTrDA)	21.0	2.0	ng/L	20.0		105	70-130			
Perfluorotetradecanoic acid (PFTA)	20.6	2.0	ng/L	20.0		103	70-130			
Perfluorooctanoic acid (PFOA)	17.6	2.0	ng/L	20.0		87.9	70-130			
Perfluorooctanesulfonic acid (PFOS)	19.7	2.0	ng/L	18.5		107	70-130			
Perfluorononanoic acid (PFNA)	18.7	2.0	ng/L	20.0		93.5	70-130			
Perfluorohexanoic acid (PFHxA)	19.6	2.0	ng/L	20.0		97.9	70-130			
Perfluorohexanesulfonic acid (PFHxS)	15.8	2.0	ng/L	18.2		86.9	70-130			
Perfluoroheptanoic acid (PFHpA)	16.7	2.0	ng/L	20.0		83.5	70-130			
Perfluorododecanoic acid (PFDoA)	20.8	2.0	ng/L	20.0		104	70-130			
Perfluorodecanoic acid (PFDA)	20.9	2.0	ng/L	20.0		104	70-130			
Perfluorobutanesulfonic acid (PFBS)	. 16.0	2.0	ng/L	17.7		90.6	70-130			
NEtFOSAA	22.4	2.0	ng/L	20.0		112	70-130			
NMeFOSAA	19.2	2.0	ng/L	20.0		95.8	70-130			
Surrogate: 13C-PFHxA	39.7		ng/L	40.0		99.3	70-130			
Surrogate: 13C-PFDA	45.7		ng/L	40.0		114	70-130			
Surrogate: d5-NEtFOSAA	198		ng/L	160		123	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
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

Perfluorooctanoic acid (PFOA)

NH,NY

Perfluorooctanesulfonic acid (PFOS)

NH,NY

Perfluoropentanoic acid (PFPeA)

NH

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 Publilc Health	PH-0567	09/30/2017
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	12/30/2017
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	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

PCB ONLY

Soxhlet

Chromatogram AIHA-LAP,LLC

Other

☐ WRTA

MWRA School

Municipality

Federal

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Pate/Time:

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Government

Project Entity Other:

Date/Time:

ed by: (signature)

9

PWSID #

MBTA

Brownfield

AIHA-LAP, LLC

Non Soxhlet

17 F 16 4 A

http://www.contestlabs.com

Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

Page_1_of

Preservation Codes: X = Sodium Hydroxide GW = Ground Water WW = Waste Water DW = Drinking Water B = Sodium Bisu[fate S = Summa Canister T = Tedlar Bag ³ Container Codes: O = Other (please Thiosulfate O = Other (please Dissolved Metals Sa 0 = Other (please Orthophosphate So S = Sulfuric Acid A = Amber Glass I = Iced H = HCL M = Methanol N = Nitric Acid ² Preservation Code Matrix Codes O Field Filtered O Field Filtered P = Plastic ST = Sterile. Lab to Filter Lab to Filter Container Code T = Sodium TRIZMA SL = Sludge SOL = Solid # of Containers G = Glass V = Vial define) A = Air S = Soil define) define) 0 0 Please use the following codes to indicate possible sample concentration www.contestaba.com 39 Spruce Street East Longmeadow, MA 01028 H - High; M - Medium; L - Low; C - Clean; U - Unknown ANALYSIS REOUESTED within the Conc Code column above: I MA MCP Required MCP Certification Form Required CT RCP Required RCP Certification Form Required z TOTAL As, Fe, HARDNESS, TOC × MA State DW Required Special Requirements 0 × × EPA METHOD 537 × Conc Email To: Rob South Of The Car \supset \supset Beginning Ending Composite Grab Watrix Date/Time Date/Time > Md Requested Turnaround Tin ₹ ă 10-Day Data Delivery 3-Day EXCEL 4-Day CLP Like Data Pkg Required: × × Detection Limit Requirements Due Date: 5-day TAT > PDF Fax To #: 1035 Format: 1025 1037 Other: EXTRACT & HOLD EPA Method 537: 229 Buck Pond Rd-field blank & 229 Buck Pond Rd-2 2-Day 7-Day -Day 6/27/2017 6/27/2017 6/27/2017 5 W 73 William Franks Drive, West Springfield, MA 1630 Email: info@contestlabs.com Received by: (signature) WA817 10,00 , Glent Sample ID / Description 229 Buck Pond Rd - field blank Fax: 413-525-6405 229 Buck Pond Rd, Westfield 229 Buck Pond Rd, Westfield Date/Time; Time: Date/Time: 6.37-17 229 Buck Pond Rd - 2 229 Buck Pond Rd - 1 ATC Group Services (413) 781-0070 Joseph Bolduc 183EM00170 Rob Smith RUN EPA Method 537: 229 Buck pond Rd-1 Con-Test Quote Name/Number: COS-KSK. HOLD As, Fe, Hardness, TOC y: (signatupe) 5357 Con-Test Work Order# Ō Invoice Recipient: Project Location: Project Manager: Company Name: Project Number: Project Name: Sampled By: Comments: Address: Phone: Page 10 of 39 Spruce St.

East Longmeadow, MA. 01028

P: 413-525-2332





F: 413-525-6405 Doc# 277 Rev 5 2017

ogin Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement

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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

August 2, 2017

Melissa & Roger Latour 235 Buck Pond Road Westfield, MA 01085

RE:

Notice of Environmental Sampling

235 Buck Pond Road

Westfield Private Well Sampling

Dear Mr. & Mrs. Latour:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on June 27, 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. ¹

The sampling result indicated a total PFOA and PFOS concentration of 3 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. In order to confirm this result, MassDEP will contact you to resample your well. MassDEP will also sample wells in the vicinity of your area in order to gather additional information. The Department thanks you for granting access to your property.

Notice of Environmental Sampling 235 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 information n 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

FREQUENTLY ASKED QUESTIONS ABOUT MASSDEP'S ACCESS AND CONSENT TO ENTER PROPERTY AGREEMENTS

1. Why does MassDEP need access to my property?

The Massachusetts Department of Environmental Protection (MassDEP) is the state agency responsible under state law, Massachusetts General Laws Chapter 21E (Chapter 21E), for regulating responses to the release or threat of release of oil or hazardous materials into the environment. As part of its legal responsibilities, MassDEP sometimes needs to enter property to assess, contain and/or remove contamination in order to protect public health, safety, welfare and the environment. MassDEP's authority for seeking property access for this work is found in Sections 4 and 8 of Chapter 21E.

2. Am I responsible for any contamination that is found on my property?

Sometimes. Section 5 of Chapter 21E provides that the owner of property where a release or threat of release of oil or hazardous materials into the environment has occurred or come to be located (the "Site") is responsible for the cleanup of that contamination. MassDEP assigns a Release Tracking Number to each Site. Typically, MassDEP notifies owners of Sites of their responsibility for cleanup by means of a letter called a "Notice of Responsibility" before requesting access onto the Site.

However, MassDEP sometimes seeks access onto property, which has not been identified as part of a Site, to investigate and ensure that contamination has not migrated from a nearby Site onto the property (for example, when underground gasoline contamination migrates through groundwater into adjacent properties with private water supply wells). The goal of MassDEP's investigation in such cases is to protect the public health and safety of the adjacent property owners, as well as the environment. In many instances, the owner of the property that is not the source of the release will not be required to clean up migrating surface or groundwater contamination, for example, if the owner qualifies for a special status known as Downgradient Property Status ("DPS"). A DPS property owner will not in most instances be required to clean up the migrating contamination, although the owner may be responsible to address any immediate concerns on the property (e.g., explosive or toxic vapors seeping into a building).

3. Will I need to pay for the work MassDEP performs on my property?

Maybe. As discussed above, a property owner is usually responsible for the cleanup of contamination on his or her property. Chapter 21E also authorizes MassDEP to clean up the contamination itself and then seek repayment from the parties responsible for the cleanup. MassDEP may exercise its authority to perform cleanup work if, for example, parties are unwilling or unable to do the cleanup themselves. MassDEP may also place liens on property owned by parties' responsible for the cleanup.

Just as a DPS property owner will usually not be responsible for doing cleanup, a DPS property owner will also usually not be responsible for MassDEP's cleanup costs or have liens placed on its property.

4. Can I be present on the property while MassDEP performs the work?

Generally, property owners can be present while MassDEP is performing its work activities, provided that property owners do not disrupt or interfere with the work activities and comply with any health and safety measures or legal requirements to ensure a property owner's safety during the work activities.

5. <u>Can my Licensed Site Professional obtain samples from the work MassDEP is performing on my property?</u>

A Site owner who has retained a Licensed Site Professional ("LSP," an individual who is specially licensed by the state and is hired by Site owners to clean up contaminated properties) can have the LSP

present on the property during MassDEP work activities, and the LSP can obtain duplicate samples from MassDEP upon request, as long as the duplicate sampling analysis requested by the LSP is paid for by the Site owner.

6. Do I have to allow MassDEP access to my property?

A property owner can always refuse to grant MassDEP access onto his or her property. Because MassDEP's goal in seeking access onto property is to protect public health, safety, welfare and the environment, MassDEP will always try to work cooperatively with property owners to obtain voluntary access in a way that minimizes any disruption or inconvenience to the property owner. Where a property owner does refuse to grant MassDEP access, however, MassDEP has the right under Section 8 of Chapter 21E to seek a court order permitting MassDEP entry onto the property to perform any work required to protect public health, safety, welfare and the environment.

7. Can I ask MassDEP to alter its work schedule to minimize disruption to my business or tenants?

MassDEP will always work cooperatively with property owners to minimize any disruption to business, commercial activities and/or property tenants when seeking access.

8. Will MassDEP reimburse me for any damage done to the property as a result of cleanup activities?

MassDEP's contractors all carry insurance to cover the work activities being performed on the property and upon request, the property owner can obtain a Certificate of Insurance (listing the property owner as an additional insured) from each MassDEP contractor involved in the project. Upon completion of the work, MassDEP will make reasonable efforts to restore the areas of the property where the work activities occurred to its prior condition.

9. <u>Will MassDEP reimburse or compensate me for any loss caused by contamination found on my property?</u>

No. As noted in Question 2 above, property owners of a Site are responsible under Chapter 21E for the cleanup of contamination on, and migrating from the Site. In addition, there may be circumstances under which downgradient property owners may be responsible for the costs of activities required to address any immediate concerns that result from contaminant migration.

PFOS and PFOA in Drinking Water

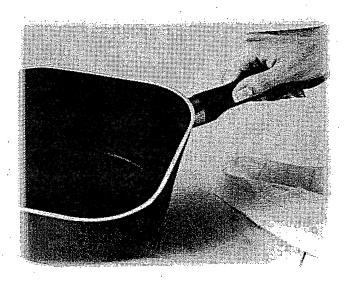
This fact sheet answers frequently asked questions about the detection of Perfluorooctanoic acid (PFOA) and Perfluorooctane sulfonate (PFOS) in drinking water. The US Environmental Protection Agency (US EPA) updated the lifetime health advisory (HA) level, and we would like to inform and update you on what it means.

WHAT ARE PFOA AND PFOS?

PFOA and PFOS are fluorinated organic chemicals that are part of a larger group of perfluoroalkyl referred to as chemicals substances (PFAs). PFOA and PFOS have been the most extensively produced and studied of these chemicals. They have been used to make carpets, clothing, fabrics for furniture, paper packaging for food, and other materials (e.g., cookware) that are resistant to water, grease or stains. They are also used in aqueous firefighting foam and in a number of industrial processes. Because these chemicals have been used in an array of consumer products, most people have been exposed to them.

Many PFAs are no longer being produced in this country; the largest manufacturer completely stopped PFOA/PFOS production in 2002. PFAs are still being produced in other countries and may be imported into the US in limited quantities. The EPA and the PFA industry launched the PFOA Stewardship Program in 2006 to work toward ending the production of PFOA and other PFAs.

While consumer products and food are a large source of exposure for most people, drinking water can be an additional source in the small percentage of communities where these chemicals have contaminated water supplies. Such contamination is typically localized and associated with a specific facility (e.g. an industrial facility where these chemicals were produced or used to manufacture other products or where firefighting foam was used).



HOW ARE PFOS/PFOA REGULATED?

Because they are emerging contaminants, there are currently no established regulatory limits for levels in drinking water. The US EPA has recently set a health advisory level (HA) of 0.07 micrograms per liter (µg/L) for both PFOS and PFOA in May 2016.

HOW CAN PFOS/PFOA AFFECT MY HEALTH?

There are many gaps in the current scientific literature, but it is believed that PFAs may affect human health. Most research is based on animal studies and scientists are still unsure of the difference between how animals and humans respond to PFAs. They are associated with changes in thyroid, liver, and kidney function, as well changes in hormone levels. These two chemicals have also been shown to cause developmental effects to fetuses during pregnancy and in breastfed infants.

CAN PFAs CAUSE CANCER?

There is no conclusive evidence that PFAs cause cancer, though several animal studies and legal cases have identified a possible link between them. The EPA reports there is suggestive evidence that these chemicals can increase the risk of cancer. Both the EPA and the National Toxicology Program are continuing research on the cancer potential of PFAs.

WHAT IS MY RISK IF I DRANK WATER ABOVE THE HEALTH ADVISORY LEVEL?

Drinking water at a level above EPA's HA does not necessarily mean that health risks are expected. This is because the HA is based on a level that is safe to drink for an entire lifetime. By convention, a value such as the HA is used as a "screening" value that is designed to overestimate exposure and ensure sensitive individuals are protected. example, the HA assumes that individuals drink only contaminated water and are also exposed to PFAs from sources beyond drinking water, such as food. Several safety factors are additionally applied to account for the differences between animals and humans and the differences from one human to another human. Under this scenario, a risk would be expected only if an individual continuously drinks only contaminated water at a level higher than the HA.

WHAT SHOULD I DO TO LIMIT EXPOSURE?

PFAs are found at low levels in the environment, in consumer products, and food, so it is nearly impossible to eliminate all exposure. If you live near a site where PFA contamination has been identified, there are several ways to limit your exposure such as drinking and cooking with bottled water, and using pre-mixed baby formula, or bottled water for reconstituting powdered formula. Using contaminated water for routine showering and bathing are not significant sources of exposure.



WHERE CAN I GET MORE INFORMATION?

For questions about drinking water quality contact the:

MassDEP Drinking Water Program

617-292-5770

Program.Director-DWP@state.ma.us

http://www.mass.gov/eea/agencies/massdep/water/drinking/is-there-copper-in-my-tap-water.html

For health-related questions contact the:

Environmental Toxicology Program Bureau of Environmental Health, MDPH

250 Washington Street, 7th Floor, Boston, MA 02108

Phone: 617-624-5757 | Fax: 617-624-5777 | TTY: 617-624-5286

US EPA's Drinking Water Health Advisories

https://www.epa.gov/ground-water-and-drinking-water/drinking-water-health-advisories-pfoa-and-pfos

Images courtesy of Richard Duncan and Debora Cartagena at the Centers for Disease Control and Prevention.

This fact sheet was supported in part by funds from a cooperative agreement with the Agency for Toxic Substances and Disease



July 2016



July 13, 2017

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

Project Location: 235 Buck Pond Rd., Westfield

Client Job Number:

Project Number: 183EM00170

Laboratory Work Order Number: 17F1643

Keny K. Mille

Enclosed are results of analyses for samples received by the laboratory on June 28, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee Project Manager

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Sample Summary	3
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Certifications	9
Chain of Custody/Sample Receipt	10



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

PURCHASE ORDER NUMBER:

REPORT DATE: 7/13/2017

PROJECT NUMBER:

183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER:

17F1643

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

PROJECT LOCATION:

235 Buck Pond Rd., Westfield

FIELD SAMPLE #

LAB ID:

MATRIX

SAMPLE DESCRIPTION

TEST

SUB LAB

235 Buck Pond Rd-1

17F1643-01

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.

Tod E. Kopyscinski Laboratory Director



Project Location: 235 Buck Pond Rd., Westfield

Sample Description:

Work Order: 17F1643

Date Received: 6/28/2017

Field Sample #: 235 Buck Pond Rd-1

Sampled: 6/27/2017 14:16

Sample ID: 17F1643-01

Sample Matrix: Drinking Water

			Miscellaneous O	rganic Analys	es				
		N	ACL/SMCL				Date	Date/Time	
Analyte	Results	RL I	MA ORSG Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
Perfluorooctanesulfonic acid (PFOS)	2.6	2.0	ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
Perfluorononanoic acid (PFNA)	3.8	2.0	ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
NEtFOSAA	ND	2.0	ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
NMeFOSAA	ND	2.0	ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
Surrogates		% Recov	very Recovery Limi	its	Flag/Qual				
13C-PFHxA		119	70-130					7/13/17 13:23	
13C-PFDA		129	70-130					7/13/17 13:23	
d5-NEtFOSAA		125	70-130					7/13/17 13:23	



Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date	
17F1643-01 [235 Buck Pond Rd-1]	B181002	250	1.00	07/06/17	



QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B181002 - EPA 537										
Blank (B181002-BLK1)				Prepared: 0	7/06/17 Anal	yzed: 07/12/	/17			
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L						,	
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	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							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L		1					
NEtFOSAA	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	35.3		ng/L	40.0		88.2	70-130			
Surrogate: 13C-PFDA	41.8		ng/L	40.0		105	70-130			
surrogate: d5-NEtFOSAA	172		ng/L	160		107	70-130			
LCS (B181002-BS1)				Prepared: 0	7/06/17 Anal	yzed: 07/12	/17			
Perfluoroundecanoic acid (PFUnA)	25.4	2.0	ng/L	20.0		127	70-130			
Perfluorotridecanoic acid (PFTrDA)	21.0	2.0	ng/L	20.0		105	70-130			
Perfluorotetradecanoic acid (PFTA)	20.6	2.0	ng/L	20.0		103	70-130			
Perfluorooctanoic acid (PFOA)	17.6	2.0	ng/L	20.0		87.9	70-130			
Perfluorooctanesulfonic acid (PFOS)	19.7	2.0	ng/L	18.5		107	70-130			
Perfluorononanoic acid (PFNA)	18.7	2.0	ng/L	20.0		93.5	70-130			
Perfluorohexanoic acid (PFHxA)	19.6	2.0	ng/L	20.0		97.9	70-130			
Perfluorohexanesulfonic acid (PFHxS)	15.8	2.0	ng/L	18.2		86.9	70-130			
Perfluoroheptanoic acid (PFHpA)	16.7	2.0	ng/L	20.0		83.5	70-130			
Perfluorododecanoic acid (PFDoA)	20.8	2.0	ng/L	20.0		104	70-130			
Perfluorodecanoic acid (PFDA)	20.9	2.0	ng/L	20.0		104	70-130			
Perfluorobutanesulfonic acid (PFBS)	16.0	2.0	ng/L	17.7		90.6	70-130			
NEtFOSAA	22.4	2.0	ng/L	20.0		112	70-130			
NMeFOSAA	19.2	2.0	ng/L	20.0		95.8	70-130			
Surrogate: 13C-PFHxA	39.7	-	ng/L .	40.0		99.3	70-130			
Surrogate: 13C-PFDA	45.7		ng/L	40.0		114	70-130			
Surrogate: d5-NEtFOSAA	198	•	ng/L	160		123	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
ID	Not Detected
T	Reporting Limit
DL	Method Detection Limit
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

Perfluorooctanoic acid (PFOA)

NH,NY

Perfluorooctanesulfonic acid (PFOS)

NH,NY

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 Publilc Health	PH-0567	09/30/2017
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	12/30/2017
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	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

Dissolved Metals Samples 2 Preservation Codes: X = Sodium Hydroxide 1 Matrix Codes: GW = Ground Water WW = Waste Water S = Sulfuric Acid B = Sodium Bisulfate V = Vial S = Summa Canister DW = Drinking Water ³ Container Codes: O = Other (please Thiosulfate O = Other (please Non Soxhlet O = Other (please PCB ONLY A = Amber Glass Soxhlet T = Tedlar Bag **Orthophosphate** H = HCL M = Methanol N = Nitric Acid Preservation Code O Field Filtered O Field Filtered O Lab to Filter SL = Sludge ST = Sterile Lab to Filter P = Plastic Container Code T = Sodium TRIZMA Page __1__ of SOL* Solid S = Soil G = Glass # of Containers define) define) define) A = Air 0 COM-test Please use the following codes to indicate possible sample concentration Chromatogram AIHA-LAP,LLC East Longmeadow, MA 01028 H - High; M - Medium; L - Low; C - Clean; U - Unknown ANALYSIS REQUESTED within the Conc Code column above: 39 Spruce Street Other Doc # 381 Rev 1_03242017 ☐ WRTA I CT RCP Required MCP Certification Form Required RCP Certification Form Required MA MCP Required MWRA School MA State DW Required MBTA TOTAL As, Fe, HARDNESS, TOC z ۵ Special Requirements × × × 0 EPA METHOD 537 Email To: Bob. Smith of ATCHSS actor Code \supset \supset http://www.contestlabs.com Matrix Code 5 Municipality CHAIN OF CUSTODY RECORD Rush-Approval Required Ѯ Ã Ã Brownfield # QISMA Data Delivery 10-Day EXCEL 3-Day 4-Day CLP Like Data Pkg Required: Grab × × × Due Date: 5-day TAT PDF Government Ending Date/Time Federal Fax To #: Format: 1418 1405 1416 EXTRACT & HOLD EPA Method 537: 235 Buck Pond Rd-field blank & 235 Buck Pond Rd-2 Detection Limit Other: 7-Day 1-Day 2-Day Çţ Project Entity Beginning, Date/Time CI 6/27/2017 6/27/2017 6/27/2017 Other: 73 William Franks Drive, West Springfield, MA bate/Time: 650 6 38 17 10:00 EHONJL1 Email: info@contestlabs.com Sectived by: (signature) Africa of 6-37-17 1630 ġ Date/Time: Client Sample ID-/ Description Date/Time: 235 Buck Pond Rd - field blank Date/Time: 235 Buck Pond Rd, Westfield Fax: 413-525-6405 235 Buck Pond Rd, Westfield 235 Buck Pond Rd - 2 235 Buck Pond Rd - 1 ATC Group Services (413) 781-0070 Joseph Bolduc 183EM00170 RUN EPA Method 537; 235 Buck Pond Rd-1 (1,00°) Rob Smith Con-Test Quote Name/Number: Relinguished by: (signature) CON-LEST HOLD As, Fe, Hardness, TOC sheeby: (signature) ed by: (signat) eceived by (signature Work Order# Con-Test Invoice Recipient: Company Name: Project Location: Project Manager: Project Number: Project Name: Sampled By:

Address: Phone: Table of Contents

Page 10 of 11

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

			ntion of the					
Client <u>ATC</u>			Date	(0.28.	17	Time	10:35	
Received By	<u> PB</u>						No Ice	
low were the sample	s In Cooler		No Cooler		-		 Melted Ice	
received?	Direct From	Sample		-	Ambient		- · · ·	
Were samples within		By Gun#			Actual Temp			
Temperature? 2-6°C	7	By Blank #		<u>-</u>	Actual Temp	and with?	F	,
Was Custody S	eal Intact?	NA		Were Sai	mpies i ampei	GO MITTE		
Mac COC Reli	nguished?			in Agree Wit	h Sampies !			
Are there broken	/leaking/loose ca	os on any sa	mples?	F		- timo?	T	
s COC in ink/ Legible	? Т		AACIC SOI		ed within holdi	Nomo?		
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pertinent Information		T	ID's?	_T	Collection Da	nes/ mile	5: <u> </u>	.,.,
nonmann in eine per	is filled out and le	egible?	-		15 15			
Are there Lab	to Filters?	F			s notified?	, , , , , , , , , , , , , , , , , , , ,		
Are there Rushes?	F			notified?		·		
Are there Short Holds			Who was	s notified?				
re there Short Holds. Is there enoug	h Volume?	T						
is there enoug	pace where applic	able?	F	MS/MSD?	<u>NA</u>			
Proper Media/Cor	vace where applications	T		splitting sa	mples require			
Proper Media/Col	Famers Cocc.			On COC?	_NA			
Were TB's received?	Have the proper	pH? T	Acid			Base		
THE RESERVE OF THE PARTY OF THE	I lave the proper	120					8 - 6	
Visite in the second	l1 Liter Amb.		1 Lite	r Plastic			6 oz Amb.	
Unp-	500 mL Amb.		500 m	L Plastic			z Amb/Clear	
HCL-	250 mL Amb.		250 m	L Plastic	12		z Amb/Clear	
Meoh-	Col./Bacteria		Flas	hpoint		20	z Amb/Clear	
Bisulfate-	Other Plastic			r Glass			Encore	
DI-	SOC Kit			tic Bag		Frozen:		
Thiosulfate-	Perchlorate			olock				Sent Andrews
Sulfuric-	Perchiorate							
			Unit o	Charles				
				- Bi - #:	1		16 oz Amb.	.
Unp-	1 Liter Amb.			r Plastic			z Amb/Clear	
HCL-	500 mL Amb.			L Plastic			oz Amb/Clear	
Meoh-	250 mL Amb.			L Plastic			oz Amb/Clear	
Bisulfate-	Col./Bacteria			shpoint		+	Encore	
	Other Plastic			er Glass	-	Frozen:	.,	
				stic Bag		-		
DI-	SOC Kit				1			
			Z	iplock				



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

August 2, 2017

Carol Banach 39 Schumann Drive Westfield, MA 01085

Re:

Notice of Environmental Sampling

39 Schumann Drive

Westfield Private Well Sampling

RTN 1-20093

Dear Ms. Banach:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on June 27, 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 water¹

The sampling result indicates PFOA and PFOS compounds were not detected above the laboratory reporting limit of 2 ppt. Based on the absence of detectable PFC compounds in the sample collected from your well, no further action, including additional sampling and/or mitigation measures (i.e. bottled water) are required at this time. The Department thanks you for granting access to your property.

Notice of Environmental Sampling 39 Schumann Drive Westfield, RTN 1-20093 August 2, 2017 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

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

FREQUENTLY ASKED QUESTIONS ABOUT MASSDEP'S ACCESS AND CONSENT TO ENTER PROPERTY AGREEMENTS

1. Why does MassDEP need access to my property?

The Massachusetts Department of Environmental Protection (MassDEP) is the state agency responsible under state law, Massachusetts General Laws Chapter 21E (Chapter 21E), for regulating responses to the release or threat of release of oil or hazardous materials into the environment. As part of its legal responsibilities, MassDEP sometimes needs to enter property to assess, contain and/or remove contamination in order to protect public health, safety, welfare and the environment. MassDEP's authority for seeking property access for this work is found in Sections 4 and 8 of Chapter 21E.

2. Am I responsible for any contamination that is found on my property?

Sometimes. Section 5 of Chapter 21E provides that the owner of property where a release or threat of release of oil or hazardous materials into the environment has occurred or come to be located (the "Site") is responsible for the cleanup of that contamination. MassDEP assigns a Release Tracking Number to each Site. Typically, MassDEP notifies owners of Sites of their responsibility for cleanup by means of a letter called a "Notice of Responsibility" before requesting access onto the Site.

However, MassDEP sometimes seeks access onto property, which has not been identified as part of a Site, to investigate and ensure that contamination has not migrated from a nearby Site onto the property (for example, when underground gasoline contamination migrates through groundwater into adjacent properties with private water supply wells). The goal of MassDEP's investigation in such cases is to protect the public health and safety of the adjacent property owners, as well as the environment. In many instances, the owner of the property that is not the source of the release will not be required to clean up migrating surface or groundwater contamination, for example, if the owner qualifies for a special status known as Downgradient Property Status ("DPS"). A DPS property owner will not in most instances be required to clean up the migrating contamination, although the owner may be responsible to address any immediate concerns on the property (e.g., explosive or toxic vapors seeping into a building).

3. Will I need to pay for the work MassDEP performs on my property?

Maybe. As discussed above, a property owner is usually responsible for the cleanup of contamination on his or her property. Chapter 21E also authorizes MassDEP to clean up the contamination itself and then seek repayment from the parties responsible for the cleanup. MassDEP may exercise its authority to perform cleanup work if, for example, parties are unwilling or unable to do the cleanup themselves. MassDEP may also place liens on property owned by parties' responsible for the cleanup.

Just as a DPS property owner will usually not be responsible for doing cleanup, a DPS property owner will also usually not be responsible for MassDEP's cleanup costs or have liens placed on its property.

4. Can I be present on the property while MassDEP performs the work?

Generally, property owners can be present while MassDEP is performing its work activities, provided that property owners do not disrupt or interfere with the work activities and comply with any health and safety measures or legal requirements to ensure a property owner's safety during the work activities.

5. <u>Can my Licensed Site Professional obtain samples from the work MassDEP is performing on my property?</u>

A Site owner who has retained a Licensed Site Professional ("LSP," an individual who is specially licensed by the state and is hired by Site owners to clean up contaminated properties) can have the LSP

present on the property during MassDEP work activities, and the LSP can obtain duplicate samples from MassDEP upon request, as long as the duplicate sampling analysis requested by the LSP is paid for by the Site owner.

6. Do I have to allow MassDEP access to my property?

A property owner can always refuse to grant MassDEP access onto his or her property. Because MassDEP's goal in seeking access onto property is to protect public health, safety, welfare and the environment, MassDEP will always try to work cooperatively with property owners to obtain voluntary access in a way that minimizes any disruption or inconvenience to the property owner. Where a property owner does refuse to grant MassDEP access, however, MassDEP has the right under Section 8 of Chapter 21E to seek a court order permitting MassDEP entry onto the property to perform any work required to protect public health, safety, welfare and the environment.

7. Can I ask MassDEP to alter its work schedule to minimize disruption to my business or tenants?

MassDEP will always work cooperatively with property owners to minimize any disruption to business, commercial activities and/or property tenants when seeking access.

8. Will MassDEP reimburse me for any damage done to the property as a result of cleanup activities?

MassDEP's contractors all carry insurance to cover the work activities being performed on the property and upon request, the property owner can obtain a Certificate of Insurance (listing the property owner as an additional insured) from each MassDEP contractor involved in the project. Upon completion of the work, MassDEP will make reasonable efforts to restore the areas of the property where the work activities occurred to its prior condition.

9. <u>Will MassDEP reimburse or compensate me for any loss caused by contamination found on my property?</u>

No. As noted in Question 2 above, property owners of a Site are responsible under Chapter 21E for the cleanup of contamination on, and migrating from the Site. In addition, there may be circumstances under which downgradient property owners may be responsible for the costs of activities required to address any immediate concerns that result from contaminant migration.

PFOS and PFOA in Drinking Water

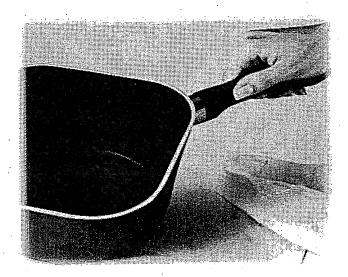
This fact sheet answers frequently asked questions about the detection of Perfluorooctanoic acid (PFOA) and Perfluorooctane sulfonate (PFOS) in drinking water. The US Environmental Protection Agency (US EPA) updated the lifetime health advisory (HA) level, and we would like to inform and update you on what it means.

WHAT ARE PFOA AND PFOS?

PFOA and PFOS are fluorinated organic chemicals that are part of a larger group of perfluoroalkyl referred to as chemicals substances (PFAs). PFOA and PFOS have been the most extensively produced and studied of these chemicals. They have been used to make carpets, clothing, fabrics for furniture, paper packaging for food, and other materials (e.g., cookware) that are resistant to water, grease or stains. They are also used in aqueous firefighting foam and in a number of industrial processes. Because these chemicals have been used in an array of consumer products, most people have been exposed to them.

Many PFAs are no longer being produced in this country; the largest manufacturer completely stopped PFOA/PFOS production in 2002. PFAs are still being produced in other countries and may be imported into the US in limited quantities. The EPA and the PFA industry launched the PFOA Stewardship Program in 2006 to work toward ending the production of PFOA and other PFAs.

While consumer products and food are a large source of exposure for most people, drinking water can be an additional source in the small percentage of communities where these chemicals have contaminated water supplies. Such contamination is typically localized and associated with a specific facility (e.g. an industrial facility where these chemicals were produced or used to manufacture other products or where firefighting foam was used).



HOW ARE PFOS/PFOA REGULATED?

Because they are emerging contaminants, there are currently no established regulatory limits for levels in drinking water. The US EPA has recently set a health advisory level (HA) of 0.07 micrograms per liter (µg/L) for both PFOS and PFOA in May 2016.

HOW CAN PROS/PROA AFFECT MY HEALTH?

There are many gaps in the current scientific literature, but it is believed that PFAs may affect human health. Most research is based on animal studies and scientists are still unsure of the difference between how animals and humans respond to PFAs. They are associated with changes in thyroid, liver, and kidney function, as well changes in hormone levels. These two chemicals have also been shown to cause developmental effects to fetuses during pregnancy and in breastfed infants.

CAN PFAs CAUSE CANCER?

There is no conclusive evidence that PFAs cause cancer, though several animal studies and legal cases have identified a possible link between them. The EPA reports there is suggestive evidence that these chemicals can increase the risk of cancer. Both the EPA and the National Toxicology Program are continuing research on the cancer potential of PFAs.

WHAT IS MY RISK IF I DRANK WATER ABOVE THE HEALTH ADVISORY LEVEL?

Drinking water at a level above EPA's HA does not necessarily mean that health risks are expected. This is because the HA is based on a level that is safe to drink for an entire lifetime. By convention, a value such as the HA is used as a "screening" value that is designed to exposure and ensure that overestimate sensitive individuals are protected. example, the HA assumes that individuals drink only contaminated water and are also exposed to PFAs from sources beyond drinking water, such as food. Several safety factors are additionally applied to account for the differences between animals and humans and the differences from one human to another human. Under this scenario, a risk would be expected only if an individual continuously drinks only contaminated water at a level higher than the HA.

WHAT SHOULD I DO TO LIMIT EXPOSURE?

PFAs are found at low levels in the environment, in consumer products, and food, so it is nearly impossible to eliminate all exposure. If you live near a site where PFA contamination has been identified, there are several ways to limit your exposure such as drinking and cooking with bottled water, and using pre-mixed baby formula, or bottled water for reconstituting powdered formula. Using contaminated water for routine showering and bathing are not significant sources of exposure.



WHERE CAN I GET MORE INFORMATION?

For questions about drinking water quality contact the:

MassDEP Drinking Water Program

617-292-5770

Program.Director-DWP@state.ma.us

http://www.mass.gov/eea/agencies/massdep/water/drinking/is-there-copper-in-my-tap-water.html

For health-related questions contact the:

Environmental Toxicology Program Bureau of Environmental Health, MDPH

250 Washington Street, 7th Floor, Boston, MA 02108

Phone: 617-624-5757 | Fax: 617-624-5777 | TTY: 617-624-5286

US EPA's Drinking Water Health Advisories

https://www.epa.gov/ground-water-and-drinking-water/drinking-water-health-advisories-pfoa-and-pfos

Images courtesy of Richard Duncan and Debora Cartagena at the Centers for Disease Control and Prevention.

This fact sheet was supported in part by funds from a cooperative agreement with the Agency for Toxic Substances and Disease



July 2016



July 13, 2017

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

Project Location: 39 Schumann Dr., Westfield

Client Job Number:

Project Number: 183EM00170

Laboratory Work Order Number: 17F1646

Keny K. Mille

Enclosed are results of analyses for samples received by the laboratory on June 28, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee 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: 7/13/2017

PROJECT NUMBER:

183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER:

17F1646

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

PROJECT LOCATION:

39 Schumann Dr., Westfield

FIELD SAMPLE#	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Trip Blank	17F1646-01	Trip Blank Water		EPA 537	
39 Schumann Dr-1	17F1646-02	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.

Tod E. Kopyscinski Laboratory Director



Project Location: 39 Schumann Dr., Westfield

Sample Description:

Work Order: 17F1646

Date Received: 6/28/2017

Field Sample #: Trip Blank

Sampled: 6/27/2017 07:30

Sample ID: 17F1646-01

Sample Matrix: Trin Blank Water

			Miscellaneous Org	anic Analyse	es				
							Date	Date/Time	
Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L	. 1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
NEtFOSAA	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
NMeFOSAA	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Surrogates		% Recovery	Recovery Limits	l	Flag/Qual				
13C-PFHxA		86.4	70-130					7/12/17 21:54	
13C-PFDA		95.9	70-130					7/12/17 21:54	
d5-NEtFOSAA		105	70-130					7/12/17 21:54	



Project Location: 39 Schumann Dr., Westfield

Sample Description:

120

Work Order: 17F1646

Date Received: 6/28/2017

Field Sample #: 39 Schumann Dr-1

Sampled: 6/27/2017 08:20

Sample ID: 17F1646-02

Sample Matrix: Drinking Water

d5-NEtFOSAA

Miscellaneous Organic Analyses											
MCL/SMCL							Date	Date/Time			
Analyte	Results	RL	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst	
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM	
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM	
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM	
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM	
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM	
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM	
Perfluorohexanoic acid (PFHxA)	2.5	2.0		ng/L	1		EPA 537	. 7/6/17	7/12/17 22:45	BLM	
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM	
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM	
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM	
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM	
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM	
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM	
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM	
Perfluoropentanoic acid (PFPeA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM	
Surrogates		% Rec	covery R	ecovery Limits		Flag/Qual					
13C-PFHxA		122		70-130					7/12/17 22:45		
13C-PFDA		118		70-130					7/12/17 22:45		

70-130

7/12/17 22:45



Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date	
17F1646-01 [Trip Blank]	B181002	250	1.00	07/06/17	
17F1646-02 [39 Schumann Dr-1]	B181002	250	1.00	07/06/17	



QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B181002 - EPA 537										
Blank (B181002-BLK1)	Prepared: 07/06/17 Analyzed: 07/12/17									
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	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							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	. ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L				1 4			
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	35.3		ng/L	40.0		88.2	70-130			
Surrogate: 13C-PFDA	41.8		ng/L	40.0		105	70-130			
Surrogate: d5-NEtFOSAA	172		ng/L	160		107	70-130			
LCS (B181002-BS1)				Prepared: 07	7/06/17 Anal	yzed: 07/12/	/17			
Perfluoroundecanoic acid (PFUnA)	25.4	2.0	ng/L	20.0		127	70-130			
Perfluorotridecanoic acid (PFTrDA)	21.0	2.0	ng/L	20.0		105	70-130			
Perfluorotetradecanoic acid (PFTA)	20.6	2.0	ng/L	20.0		103	70-130			
Perfluorooctanoic acid (PFOA)	17.6	2.0	ng/L	20.0		87.9	70-130			
Perfluorooctanesulfonic acid (PFOS)	19.7	2.0	ng/L	18.5		107	70-130			
Perfluorononanoic acid (PFNA)	18.7	2.0	ng/L	20.0		93.5	70-130			
Perfluorohexanoic acid (PFHxA)	19.6	2.0	ng/L	20.0		97.9	70-130			
Perfluorohexanesulfonic acid (PFHxS)	15.8	2.0	ng/L	18.2		86.9	70-130			
Perfluoroheptanoic acid (PFHpA)	16.7	2.0	ng/L	20.0		83.5	70-130			
Perfluorododecanoic acid (PFDoA)	20.8	2.0	ng/L	20.0		104	70-130			
Perfluorodecanoic acid (PFDA)	20.9	2.0	ng/L	20.0		104	70-130			
Perfluorobutanesulfonic acid (PFBS)	16.0	2.0	ng/L	17.7		90.6	70-130			
NEtFOSAA	22.4	2.0	ng/L	20.0		112	70-130			
NMeFOSAA	19.2	2.0	ng/L	20.0		95.8	70-130			
Surrogate: 13C-PFHxA	39.7		ng/L	40.0		99.3	70-130			
Surrogate: 13C-PFDA	45.7		ng/L	40.0		114	70-130			
Surrogate: d5-NEtFOSAA	198		ng/L	160		123	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
1D	Not Detected
RL _.	Reporting Limit
DL	Method Detection Limit
ICL	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

Perfluorooctanoic acid (PFOA)

NH,NY

Perfluorooctanesulfonic acid (PFOS)

NH,NY

Perfluoropentanoic acid (PFPeA)

NH

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

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 Publile Health	PH-0567	09/30/2017
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	12/30/2017
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	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

Date: 5-Lay TAT Date: 5-L	AMALYSIS REQUESTED	1	Phone: 413-525-2332 Fax: 413-525-6405
Pate Selay Tall	Note Stay TAT Note Not	Preservation Code Pres	00
Contained Code	Number N	NAME 19 19 19 19 19 19 19 1	
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Page 11 of 12

39 Spruce St. East Longmeadow, MA. 01028

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



Doc# 277 Rev 5 2017

www.contestlabs.com
Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement
Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement

Received By ow were the samples	E 19		Date	(a.28	17	Time	10:35	
	PB	<u> </u>		10.00	On Ice		No Ice	
	In Cooler		No Cooler		•	!		
received?	Direct From	Sample			Ambient .		Melted Ice	
et	Directive	By Gun#	1	-	Actual Temp			
Were samples within	T	By Blank #_		-	Actual Temp			
Temperature? 2-6°C Was Custody Sea		NA		Were Sa	amples Tampe	red with?	F	
Was COC Relinge	siched?		Does Cha	in Agree Wit	th Samples?	T		
Are there broken/le	skinalloose cat		mnlac?					
Are there prokerine	aking/1003c cap	70 011 a.i.y 0	Were sar	nples receiv	ed within holdi	ng time?		
COC in ink/ Legible?	Client?		Analysis?	T	Sampler.	Name?		
Did COC include all			ID's?	T	Collection Da	ates/Times	s7 <u> </u>	
ertinent Information?	Project?	T gible?	,					
Are Sample labels	rilled out and le	gible:		Who wa	as notified?			
Are there Lab to			Who was	notified?		,		
Are there Rushes?	<u> </u>			s notified?				
re there Short Holds?	-		WALLO MAGE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u></u>			
Is there enough \	/olume?	<u>T</u>		MS/MSD?	NA			
Is there Headspace	e where applic	able"?	<u> </u>	enlitting sa	amples require	F		
Proper Media/Contai	ners Used?			On COC?) kin			
Vere TB's received?	<u> </u>	110	Acid	- 		Base		
Do All Samples H	ave the proper	pH? T	ACIO					
	grafi (grafi sa ka)		41134	Diestie		1	6 oz Amb.	
Inp-	1 Liter Amb.			Plastic			z Amb/Clear	
icl- 2	500 mL Amb.			L Plastic	la		z Amb/Clear	
Aeoh-	250 mL Amb.			L Plastic	100		z Amb/Clear	
Bisulfate-	Col./Bacteria			hpoint			Encore	
OI-	Other Plastic			r Glass		Frozen:		
hiosulfate-	SOC Kit			tic Bag		1,102611.		
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Jnp-	1 Liter Amb.			L Plastic			z Amb/Clear	
HCL-	500 mL Amb.		250 m	L Plastic		40	z Amb/Clear	
Meoh-	250 mL Amb.			shpoint		20	z Amb/Clear	
Bisulfate-	Col./Bacteria			er Glass			Encore	
DI-	Other Plastic					Frozen:		
Thiosulfate-	SOC Kit			stic Bag plock	<u>: </u>	-		
Sulfuric-	Perchlorate			PIOCK	L			
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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

August 2, 2017

Leslie and Sherry Bessette 277 Buck Pond Road Westfield, MA 01085

RE:

Notice of Environmental Sampling

277 Buck Pond Road

Westfield Private Well Sampling

Dear Leslie & Sherry Bessette:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on June 27, 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. ¹

The sampling result indicated a total PFOA and PFOS concentration of 3 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. In order to confirm this result, MassDEP will contact you to resample your well. MassDEP will also sample wells in the vicinity of your area in order to gather additional information. The Department thanks you for granting access to your property.

Notice of Environmental Sampling 277 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 information n 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-Joh n 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

¹ Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

FREQUENTLY ASKED QUESTIONS ABOUT MASSDEP'S ACCESS AND CONSENT TO ENTER PROPERTY AGREEMENTS

1. Why does MassDEP need access to my property?

The Massachusetts Department of Environmental Protection (MassDEP) is the state agency responsible under state law, Massachusetts General Laws Chapter 21E (Chapter 21E), for regulating responses to the release or threat of release of oil or hazardous materials into the environment. As part of its legal responsibilities, MassDEP sometimes needs to enter property to assess, contain and/or remove contamination in order to protect public health, safety, welfare and the environment. MassDEP's authority for seeking property access for this work is found in Sections 4 and 8 of Chapter 21E.

2. Am I responsible for any contamination that is found on my property?

Sometimes. Section 5 of Chapter 21E provides that the owner of property where a release or threat of release of oil or hazardous materials into the environment has occurred or come to be located (the "Site") is responsible for the cleanup of that contamination. MassDEP assigns a Release Tracking Number to each Site. Typically, MassDEP notifies owners of Sites of their responsibility for cleanup by means of a letter called a "Notice of Responsibility" before requesting access onto the Site.

However, MassDEP sometimes seeks access onto property, which has not been identified as part of a Site, to investigate and ensure that contamination has not migrated from a nearby Site onto the property (for example, when underground gasoline contamination migrates through groundwater into adjacent properties with private water supply wells). The goal of MassDEP's investigation in such cases is to protect the public health and safety of the adjacent property owners, as well as the environment. In many instances, the owner of the property that is not the source of the release will not be required to clean up migrating surface or groundwater contamination, for example, if the owner qualifies for a special status known as Downgradient Property Status ("DPS"). A DPS property owner will not in most instances be required to clean up the migrating contamination, although the owner may be responsible to address any immediate concerns on the property (e.g., explosive or toxic vapors seeping into a building).

3. Will I need to pay for the work MassDEP performs on my property?

Maybe. As discussed above, a property owner is usually responsible for the cleanup of contamination on his or her property. Chapter 21E also authorizes MassDEP to clean up the contamination itself and then seek repayment from the parties responsible for the cleanup. MassDEP may exercise its authority to perform cleanup work if, for example, parties are unwilling or unable to do the cleanup themselves. MassDEP may also place liens on property owned by parties' responsible for the cleanup.

Just as a DPS property owner will usually not be responsible for doing cleanup, a DPS property owner will also usually not be responsible for MassDEP's cleanup costs or have liens placed on its property.

4. Can I be present on the property while MassDEP performs the work?

Generally, property owners can be present while MassDEP is performing its work activities, provided that property owners do not disrupt or interfere with the work activities and comply with any health and safety measures or legal requirements to ensure a property owner's safety during the work activities.

5. <u>Can my Licensed Site Professional obtain samples from the work MassDEP is performing on my property?</u>

A Site owner who has retained a Licensed Site Professional ("LSP," an individual who is specially licensed by the state and is hired by Site owners to clean up contaminated properties) can have the LSP

present on the property during MassDEP work activities, and the LSP can obtain duplicate samples from MassDEP upon request, as long as the duplicate sampling analysis requested by the LSP is paid for by the Site owner.

6. Do I have to allow MassDEP access to my property?

A property owner can always refuse to grant MassDEP access onto his or her property. Because MassDEP's goal in seeking access onto property is to protect public health, safety, welfare and the environment, MassDEP will always try to work cooperatively with property owners to obtain voluntary access in a way that minimizes any disruption or inconvenience to the property owner. Where a property owner does refuse to grant MassDEP access, however, MassDEP has the right under Section 8 of Chapter 21E to seek a court order permitting MassDEP entry onto the property to perform any work required to protect public health, safety, welfare and the environment.

7. Can I ask MassDEP to alter its work schedule to minimize disruption to my business or tenants?

MassDEP will always work cooperatively with property owners to minimize any disruption to business, commercial activities and/or property tenants when seeking access.

8. Will MassDEP reimburse me for any damage done to the property as a result of cleanup activities?

MassDEP's contractors all carry insurance to cover the work activities being performed on the property and upon request, the property owner can obtain a Certificate of Insurance (listing the property owner as an additional insured) from each MassDEP contractor involved in the project. Upon completion of the work, MassDEP will make reasonable efforts to restore the areas of the property where the work activities occurred to its prior condition.

9. Will MassDEP reimburse or compensate me for any loss caused by contamination found on my property?

No. As noted in Question 2 above, property owners of a Site are responsible under Chapter 21E for the cleanup of contamination on, and migrating from the Site. In addition, there may be circumstances under which downgradient property owners may be responsible for the costs of activities required to address any immediate concerns that result from contaminant migration.

MASSACHUSETTS DEPARTMENT OF PUBLIC HEALTH

PFOS and PFOA in Drinking Water

This fact sheet answers frequently asked questions about the detection of Perfluorooctanoic acid (PFOA) and Perfluorooctane sulfonate (PFOS) in drinking water. The US Environmental Protection Agency (US EPA) updated the lifetime health advisory (HA) level, and we would like to inform and update you on what it means.

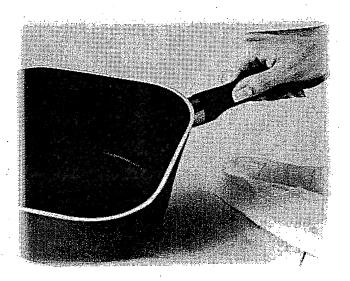
WHAT ARE PFOA AND PFOS?

PFOA and PFOS are fluorinated organic chemicals that are part of a larger group of chemicals referred to as perfluoroalkyl substances (PFAs). PFOA and PFOS have been the most extensively produced and studied of these chemicals. They have been used to make carpets, clothing, fabrics for furniture, paper packaging for food, and other materials (e.g., cookware) that are resistant to water, grease or stains. They are also used in aqueous firefighting foam and in a number of industrial processes. Because these chemicals have been used in an array of consumer products, most people have been exposed to them.

Many PFAs are no longer being produced in this country; the largest manufacturer completely stopped PFOA/PFOS production in 2002. PFAs are still being produced in other countries and may be imported into the US in limited quantities. The EPA and the PFA industry launched the PFOA Stewardship Program in 2006 to work toward ending the production of PFOA and other PFAs.

While consumer products and food are a large source of exposure for most people, drinking water can be an additional source in the small percentage of communities where these chemicals have contaminated water supplies. Such contamination is typically localized and

associated with a specific facility (e.g. an industrial facility where these chemicals were produced or used to manufacture other products or where firefighting foam was used).



HOW ARE PFOS/PFOA REGULATED?

Because they are emerging contaminants, there are currently no established regulatory limits for levels in drinking water. The US EPA has recently set a health advisory level (HA) of 0.07 micrograms per liter (µg/L) for both PFOS and PFOA in May 2016.

HOW CAN PFOS/PFOA AFFECT MY HEALTH?

There are many gaps in the current scientific literature, but it is believed that PFAs may affect human health. Most research is based on animal studies and scientists are still unsure of the difference between how animals and humans respond to PFAs. They are associated with changes in thyroid, liver, and kidney function, as well changes in hormone levels. These two chemicals have also been shown to cause developmental effects to fetuses during pregnancy and in breastfed infants.

CAN PFAs CAUSE CANCER?

There is no conclusive evidence that PFAs cause cancer, though several animal studies and legal cases have identified a possible link between them. The EPA reports there is suggestive evidence that these chemicals can increase the risk of cancer. Both the EPA and Program National Toxicology continuing research on the cancer potential of PFAs.

WHAT IS MY RISK IF I DRANK WATER ABOVE THE HEALTH ADVISORY LEVEL?

Drinking water at a level above EPA's HA does not necessarily mean that health risks are expected. This is because the HA is based on a level that is safe to drink for an entire lifetime. By convention, a value such as the HA is used as a "screening" value that is designed to overestimate exposure and ensure that sensitive individuals are protected. example, the HA assumes that individuals drink only contaminated water and are also exposed to PFAs from sources beyond drinking water, such as food. Several safety factors are additionally applied to account for the differences between animals and humans and the differences from one human to another human. Under this scenario, a risk would be expected only if an individual continuously drinks only contaminated water at a level higher than the HA.

WHAT SHOULD I DO TO LIMIT EXPOSURE?

PFAs are found at low levels in the environment, in consumer products, and food, so it is nearly impossible to eliminate all exposure. If you live near a site where PFA contamination has been identified, there are several ways to limit your exposure such as drinking and cooking with bottled water, and using pre-mixed baby formula, or bottled water for reconstituting powdered formula. Using contaminated water for routine showering and bathing are not significant sources of exposure.



WHERE CAN I GET MORE INFORMATION?

For questions about drinking water quality contact the:

MassDEP Drinking Water Program

617-292-5770

Program.Director-DWP@state.ma.us

http://www.mass.gov/eea/agencies/massdep/water/drinking/is-there-copper-in-my-tap-water.html

For health-related questions contact the:

Environmental Toxicology Program Bureau of Environmental Health, MDPH

250 Washington Street, 7th Floor, Boston, MA 02108

Phone: 617-624-5757 | Fax: 617-624-5777 | TTY: 617-624-5286

US EPA's Drinking Water Health Advisories

https://www.epa.gov/ground-water-and-drinking-water/drinking-water-health-advisories-pfoa-and-pfos

Images courtesy of Richard Duncan and Debora Cartagena at the Centers for Disease Control and Prevention.





July 13, 2017

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

Project Location: 277 Buck Pond Rd., Westfield

Client Job Number:

Project Number: 183EM00170

Laboratory Work Order Number: 17F1645

Keny K. Mille

Enclosed are results of analyses for samples received by the laboratory on June 28, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee Project Manager

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

PURCHASE ORDER NUMBER:

REPORT DATE: 7/13/2017

PROJECT NUMBER:

183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER:

17F1645

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

PROJECT LOCATION:

277 Buck Pond Rd., Westfield

FIELD SAMPLE#

ATTN: Rob Smith

LAB ID:

MATRIX

SAMPLE DESCRIPTION

TEST

SUB LAB

277 Buck Pond Rd-1

17F1645-01

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.

Tod E. Kopyscinski Laboratory Director



Project Location: 277 Buck Pond Rd., Westfield

Sample Description:

Work Order: 17F1645

Date Received: 6/28/2017

Field Sample #: 277 Buck Pond Rd-1

Sampled: 6/27/2017 15:28

Sample ID: 17F1645-01

Sample Matrix: Drinking Water

Sample Matrix: Drinking Water										
			Mis	scellaneous Org	ganic Analys	es				
			MCL/SMCL					Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluorooctanoic acid (PFOA)	2.6	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluorohexanoic acid (PFHxA)	2.7	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluoropentanoic acid (PFPeA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Surrogates		% Rec	overy R	ecovery Limits	;	Flag/Qual				
13C-PFHxA		90.7		70-130					7/12/17 23:01	-
13C-PFDA		129		70-130					7/12/17 23:01	
d5-NEtFOSAA		129		70-130					7/12/17 23:01	



Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17F1645-01 [277 Buck Pond Rd-1]	B181002	250	1.00	07/06/17



QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B181002 - EPA 537										
Blank (B181002-BLK1)				Prepared: 07	7/06/17 Anal	yzed: 07/12/	17			
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	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							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND .	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	35.3		ng/L	40.0		88.2	70-130			
Surrogate: 13C-PFDA	41.8		ng/L	40.0		105	70-130			
Surrogate: d5-NEtFOSAA	172		ng/L	160		107	70-130			
LCS (B181002-BS1)				Prepared: 07	7/06/17 Anal	yzed: 07/12/	17			
Perfluoroundecanoic acid (PFUnA)	25.4	2.0	ng/L	20.0		127	70-130			
Perfluorotridecanoic acid (PFTrDA)	21.0	2.0	ng/L	20.0		105	70-130			
Perfluorotetradecanoic acid (PFTA)	20.6	2.0	ng/L	20.0		103	70-130			
Perfluorooctanoic acid (PFOA)	17.6	2.0	ng/L	20.0		87.9	70-130			
Perfluorooctanesulfonic acid (PFOS)	19.7	2.0	ng/L	18.5		107	70-130		1	
Perfluorononanoic acid (PFNA)	18.7	2.0	ng/L	20.0		93.5	70-130			
Perfluorohexanoic acid (PFHxA)	19.6	2.0	ng/L	20.0		97.9	70-130			
Perfluorohexanesulfonic acid (PFHxS)	15.8	2.0	ng/L	18.2		86.9	70-130			
Perfluoroheptanoic acid (PFHpA)	16.7	2.0	ng/L	20.0		83.5	70-130			
Perfluorododecanoic acid (PFDoA)	20.8	2.0	ng/L	20.0		104	70-130			
Perfluorodecanoic acid (PFDA)	20.9	2.0	ng/L	20.0		104	70-130			
Perfluorobutanesulfonic acid (PFBS)	16.0	2.0	ng/L	17.7		90.6	70-130			
NEtFOSAA	22.4	2.0	ng/L	20.0		112	70-130			
NMeFOSAA	19.2	2.0	ng/L	20.0		95.8	70-130			
Surrogate: 13C-PFHxA	39.7		ng/L	40.0		99.3	70-130			
Surrogate: 13C-PFDA	45.7		ng/L	40.0		114	70-130			
Surrogate: d5-NEtFOSAA	198		ng/L	160		123	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
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.



CERTIFICATIONS

Certified Analyses included in this Report

Certifications

EPA 537 in Drinking Water

Analyte

Perfluorooctanoic acid (PFOA)

NH,NY

Perfluorooctanesulfonic acid (PFOS)

NH,NY

Perfluoropentanoic acid (PFPeA)

NILI

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 Publilc Health	PH-0567	09/30/2017
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	12/30/2017
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	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

7-Day 10-Day
Dub Date: 5-day TAT
1-Day
Z-Day
Format: PDF
Other:
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Fax To #:
Beginning Ending Composite
6/27/2017 1515
6/27/2017 1528
6/27/2017 1530
NON LEA MECHOO 537, 277 BOLIN ON A 1 EXTRACT & HOLD EPA Method 537: 277 Buck Pond Rd-field blank & 277 Buck Pond Rd-2
Detection Limit Requirements
MA
כד
Other:
Project Entity Government
Federal City

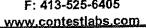
Page 10 of 11

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	ATC	will be blough		Date	. 08		Time	10:35	
Receive	ed By	PB			6.28			•	
How were the		In Cooler		No Cooler		On ice	<u> </u>	No Ice	
receiv	ed?	Direct From	Sample		_	Ambient		Melted Ice	
Were samp	les within		By Gun#	1		Actual Temp	~		
Temperatur		7	By Blank #			Actual Temp		prize.	
	Custody Sea	al Intact?	NA		Were Sa	mples Tamper		<u> </u>	
	COC Reling		<u> </u>			h Samples?			
		aking/loose cap	os on any sa	mples?	F	ad within holdin	og time?		
Is COC in inl					npies receive	ed within holdi Sampler I	dome?	1	
Did COC ir		Client?		Analysis?		Collection Da		7	
pertinent Info	ormation?	Project?		ID's?		Conection Da	ites/ Fillies		
Are Sar	nple labels	filled out and le	gible?		Who wa	s notified?			
	nere Lab to	Filters?	<u></u>	Mho was	notified?	is notined:	,		
Are there F		<u> </u>			notified?	<u> </u>		., ,	
Are there Sh		Valuma?	_	VVIIO VVGS	i nomica:		, <u></u>		***************************************
	re enough	volume? ce where applic	T able?	E	MS/MSD?	מא			
is then	e neauspa: edio/Conto	iners Used?	anie:	<u> </u>		mples required	F		
Proper M Were TB's re		meis Oseu:			On COC?				
Vere ibsie	sceiveu : Samnles H	ave the proper	pH? T	Acid			Base		
No.	Ourripioo I	and the second							
Unp-		1 Liter Amb.		1 Liter	Plastic			oz Amb.	
HCL-		500 mL Amb.		500 mL	. Plastic			Amb/Clear	
Meoh-		250 mL Amb.		250 mL	Plastic	Ð		Amb/Clear	
Bisulfate-		Col./Bacteria		Flash	point			Amb/Clear	
DI-		Other Plastic		Other	Glass			Encore	
Thiosulfate-		SOC Kit			c Bag		Frozen:		,
Sulfuric-		Perchlorate		Zip	lock		and the second second		
				e University	cuadrace.		100		
Unp-		1 Liter Amb.		1 Liter	Plastic			oz Amb.	·
HCL-		500 mL Amb.		500 ml	Plastic			Amb/Clear	
Meoh-		250 mL Amb.		250 ml	Plastic			Amb/Clear	
Bisulfate-		Col./Bacteria		Flasi	npoint			Amb/Clear	
DI-		Other Plastic			Glass			Encore	
Thiosulfate-		SOC Kit			ic Bag		Frozen:		
Sulfuric-		Perchlorate		Zip	lock				
Comments:									
	· · · · · · · · · · · · · · · · · · ·						•		