

April 20, 2020

Rob Hartman  
City of Westfield - Westfield Water Dept.  
Westfield DEW Water Division, 28 Sackett Street  
Westfield, MA 01085

Project Location: Westfield, MA  
Client Job Number:  
Project Number: 20170707 PFAS  
Laboratory Work Order Number: 20D0465  
PWSID# 1329000

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

Sincerely,

A handwritten signature in black ink that reads "Michelle Koch". The signature is written in a cursive, flowing style.

Michelle M. Koch  
Project Manager

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

City of Westfield - Westfield Water Dept.  
 Westfield DEW Water Division, 28 Sackett Street  
 Westfield, MA 01085  
 ATTN: Rob Hartman

REPORT DATE: 4/20/2020

PURCHASE ORDER NUMBER: 220838

PROJECT NUMBER: 20170707 PFAS

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 20D0465

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

PROJECT LOCATION: Westfield, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
FB Well #2 POE	20D0465-01	Field Blank		EPA 537.1	
Well #2 POE 10513	20D0465-02	Drinking Water		EPA 537.1	
FB Well #2 GAC	20D0465-03	Field Blank		EPA 537.1	
Well #2 GAC 10524	20D0465-04	Drinking Water		EPA 537.1	
FB Well #2 Raw	20D0465-05	Field Blank		EPA 537.1	
Well #2 Raw RW2	20D0465-06	Drinking Water		EPA 537.1	

**CASE NARRATIVE SUMMARY**

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

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

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

A handwritten signature in black ink, appearing to read "Tod Kopycinski". The signature is fluid and cursive, with the first name "Tod" being more prominent and the last name "Kopycinski" written in a continuous script.

Tod E. Kopycinski  
Laboratory Director

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

Project Location: Westfield, MA

Sample Description:

Work Order: 20D0465

Date Received: 4/10/2020

Field Sample #: FB Well #2 POE

Sampled: 4/8/2020 00:00

Sample ID: 20D0465-01

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL		DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
			MA ORSG	Units						
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:26	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:26	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:26	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:26	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:26	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:26	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:26	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:26	BLM
N-EtFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:26	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:26	BLM
N-MeFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:26	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:26	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:26	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:26	BLM
Surrogates		% Recovery		Recovery Limits		Flag/Qual				
13C-PFHxA		83.5		70-130					4/15/20 15:26	
M3HFPO-DA		83.7		70-130					4/15/20 15:26	
13C-PFDA		82.9		70-130					4/15/20 15:26	
d5-NEtFOSAA		95.0		70-130					4/15/20 15:26	

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Project Location: Westfield, MA

Sample Description:

Work Order: 20D0465

Date Received: 4/10/2020

Field Sample #: Well #2 POE 10513

Sampled: 4/8/2020 10:00

Sample ID: 20D0465-02

Sample Matrix: Drinking Water

**Semivolatile Organic Compounds by - LC/MS-MS**

Analyte	Results	RL	MCL/SMCL		DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
			MA ORSG	Units						
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:47	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:47	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:47	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:47	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:47	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:47	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:47	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:47	BLM
N-EtFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:47	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:47	BLM
N-MeFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:47	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:47	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:47	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 15:47	BLM
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
13C-PFHxA		97.2	70-130						4/15/20 15:47	
M3HFPO-DA		96.2	70-130						4/15/20 15:47	
13C-PFDA		88.8	70-130						4/15/20 15:47	
d5-NEtFOSAA		106	70-130						4/15/20 15:47	

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Project Location: Westfield, MA

Sample Description:

Work Order: 20D0465

Date Received: 4/10/2020

Field Sample #: FB Well #2 GAC

Sampled: 4/8/2020 10:15

Sample ID: 20D0465-03

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/16/20 22:52	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/16/20 22:52	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/16/20 22:52	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/16/20 22:52	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/16/20 22:52	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/16/20 22:52	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/16/20 22:52	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/16/20 22:52	BLM
N-EtFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/16/20 22:52	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/16/20 22:52	BLM
N-MeFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/16/20 22:52	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/16/20 22:52	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/16/20 22:52	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/16/20 22:52	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
13C-PFHxA	92.5	70-130	4/16/20 22:52
M3HFPO-DA	90.4	70-130	4/16/20 22:52
13C-PFDA	92.4	70-130	4/16/20 22:52
d5-NEtFOSAA	107	70-130	4/16/20 22:52

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Project Location: Westfield, MA

Sample Description:

Work Order: 20D0465

Date Received: 4/10/2020

Field Sample #: Well #2 GAC 10524

Sampled: 4/8/2020 10:15

Sample ID: 20D0465-04

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL		DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
			MA ORSG	Units						
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:30	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:30	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:30	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:30	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:30	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:30	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:30	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:30	BLM
N-EtFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:30	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:30	BLM
N-MeFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:30	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:30	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:30	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:30	BLM
Surrogates		% Recovery		Recovery Limits		Flag/Qual				
13C-PFHxA		87.6		70-130					4/15/20 16:30	
M3HFPO-DA		83.3		70-130					4/15/20 16:30	
13C-PFDA		84.9		70-130					4/15/20 16:30	
d5-NEtFOSAA		101		70-130					4/15/20 16:30	



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Project Location: Westfield, MA

Sample Description:

Work Order: 20D0465

Date Received: 4/10/2020

Field Sample #: FB Well #2 Raw

Sampled: 4/8/2020 09:45

Sample ID: 20D0465-05

Sample Matrix: Field Blank

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL		DF	Flag/Qual	Method	Date	Date/Time	Analyst
			MA ORSG	Units				Prepared	Analyzed	
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:52	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:52	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:52	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:52	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:52	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:52	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:52	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:52	BLM
N-EtFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:52	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:52	BLM
N-MeFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:52	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:52	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:52	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 16:52	BLM
Surrogates		% Recovery		Recovery Limits		Flag/Qual				
13C-PFHxA		90.6		70-130				4/15/20	16:52	
M3HFPO-DA		86.6		70-130				4/15/20	16:52	
13C-PFDA		83.9		70-130				4/15/20	16:52	
d5-NEtFOSAA		93.0		70-130				4/15/20	16:52	

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Project Location: Westfield, MA

Sample Description:

Work Order: 20D0465

Date Received: 4/10/2020

Field Sample #: Well #2 Raw RW2

Sampled: 4/8/2020 09:45

Sample ID: 20D0465-06

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL		DF	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
			MA ORSG	Units						
Perfluorobutanesulfonic acid (PFBS)	4.4	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 17:13	BLM
Perfluorohexanoic acid (PFHxA)	6.9	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 17:13	BLM
Perfluorohexanesulfonic acid (PFHxS)	31	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 17:13	BLM
Perfluoroheptanoic acid (PFHpA)	2.4	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 17:13	BLM
Perfluorooctanoic acid (PFOA)	7.1	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 17:13	BLM
Perfluorooctanesulfonic acid (PFOS)	15	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 17:13	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 17:13	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 17:13	BLM
N-EtFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 17:13	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 17:13	BLM
N-MeFOSAA	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 17:13	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 17:13	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 17:13	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537.1	4/13/20	4/15/20 17:13	BLM
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C-PFHxA	87.3		70-130				4/15/20 17:13			
M3HFPO-DA	86.2		70-130				4/15/20 17:13			
13C-PFDA	84.7		70-130				4/15/20 17:13			
d5-NEtFOSAA	97.4		70-130				4/15/20 17:13			

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### Sample Extraction Data

Prep Method: EPA 537.1-EPA 537.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20D0465-01 [FB Well #2 POE]	B256145	250	1.00	04/13/20
20D0465-02 [Well #2 POE 10513]	B256145	250	1.00	04/13/20
20D0465-03 [FB Well #2 GAC]	B256145	250	1.00	04/13/20
20D0465-04 [Well #2 GAC 10524]	B256145	250	1.00	04/13/20
20D0465-05 [FB Well #2 Raw]	B256145	250	1.00	04/13/20
20D0465-06 [Well #2 Raw RW2]	B256145	250	1.00	04/13/20

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**QUALITY CONTROL**

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B256145 - EPA 537.1</b>										
<b>Blank (B256145-BLK1)</b>										
Prepared: 04/13/20 Analyzed: 04/15/20										
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
N-EtFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
N-MeFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	36.3		ng/L	40.0		90.8	70-130			
Surrogate: M3HFPO-DA	35.5		ng/L	40.0		88.9	70-130			
Surrogate: 13C-PFDA	36.8		ng/L	40.0		91.9	70-130			
Surrogate: d5-NEtFOSAA	173		ng/L	160		108	70-130			
<b>LCS (B256145-BS1)</b>										
Prepared: 04/13/20 Analyzed: 04/15/20										
Perfluorobutanesulfonic acid (PFBS)	7.80	2.0	ng/L	8.85		88.2	70-130			
Perfluorohexanoic acid (PFHxA)	8.65	2.0	ng/L	10.0		86.5	70-130			
Perfluorohexanesulfonic acid (PFHxS)	8.45	2.0	ng/L	9.10		92.8	70-130			
Perfluoroheptanoic acid (PFHpA)	9.09	2.0	ng/L	10.0		90.9	70-130			
Perfluorooctanoic acid (PFOA)	9.28	2.0	ng/L	10.0		92.8	70-130			
Perfluorooctanesulfonic acid (PFOS)	8.20	2.0	ng/L	9.25		88.6	70-130			
Perfluorononanoic acid (PFNA)	9.35	2.0	ng/L	10.0		93.5	70-130			
Perfluorodecanoic acid (PFDA)	9.44	2.0	ng/L	10.0		94.4	70-130			
N-EtFOSAA	12.4	2.0	ng/L	10.0		124	70-130			
Perfluoroundecanoic acid (PFUnA)	9.34	2.0	ng/L	10.0		93.4	70-130			
N-MeFOSAA	10.7	2.0	ng/L	10.0		107	70-130			
Perfluorododecanoic acid (PFDoA)	9.46	2.0	ng/L	10.0		94.6	70-130			
Perfluorotridecanoic acid (PFTrDA)	9.36	2.0	ng/L	10.0		93.6	70-130			
Perfluorotetradecanoic acid (PFTA)	8.67	2.0	ng/L	10.0		86.7	70-130			
Surrogate: 13C-PFHxA	31.4		ng/L	40.0		78.4	70-130			
Surrogate: M3HFPO-DA	30.4		ng/L	40.0		76.0	70-130			
Surrogate: 13C-PFDA	32.8		ng/L	40.0		82.1	70-130			
Surrogate: d5-NEtFOSAA	148		ng/L	160		92.6	70-130			

**FLAG/QUALIFIER SUMMARY**

*	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**

Analyte	Certifications
<i>EPA 537.1 in Drinking Water</i>	
Perfluorobutanesulfonic acid (PFBS)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorohexanoic acid (PFHxA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorohexanesulfonic acid (PFHxS)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluoroheptanoic acid (PFHpA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorooctanoic acid (PFOA)	VT-DW,NJ,CT,ME,NY,NH,PA
Perfluorooctanesulfonic acid (PFOS)	VT-DW,NJ,CT,ME,NY,NH,PA
Perfluorononanoic acid (PFNA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorodecanoic acid (PFDA)	NH-P,VT-DW,NJ,CT,ME,PA
N-EtFOSAA	NH-P,VT-DW,NJ,CT,ME,PA
Perfluoroundecanoic acid (PFUnA)	NH-P,VT-DW,NJ,CT,ME,PA
N-MeFOSAA	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorododecanoic acid (PFDoA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorotridecanoic acid (PFTrDA)	NH-P,VT-DW,NJ,CT,ME,PA
Perfluorotetradecanoic acid (PFTA)	NH-P,VT-DW,NJ,CT,ME,PA

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

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



Phone: 413-525-2332  
Fax: 413-525-6405  
Email: info@contestlabs.com

Westfield Water Resources  
28 Sackett Street  
1-(413)-569-0668  
Well 2 PFC Sampling  
Westfield

Project Location: Westfield  
Project Number:  
Project Manager: Rob Hartman  
Con-Test Bid:  
Invoice Recipient: Hannah Larkham  
Sampled By:

**Requested Turnaround Time**  
7-Day  10-Day   
Other: Standard

**Rush-Approval Required**  
1-Day  3-Day   
2-Day  4-Day   
Data Delivery

Format: PDF  EXCEL   
Other:

Enhanced Data Package Required:   
Email To: r.hartman@cityofwestfield.org  
Email To: h.stayton@cityofwestfield.org

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	FB Well #2 POE	4/8/20	10:00		Grab	DW	C
2	Well #2 POE 10513	4/8/20	10:00		Grab	DW	C
3	FB Well #2 GAC	4/8/20	10:15		Grab	DW	C
4	Well #2 GAC 10524	4/8/20	10:15		Grab	DW	C
5	FB Well #2 Raw	4/8/20	9:45		Grab	DW	C
6	Well #2 Raw RW2	4/8/20	9:45		Grab	DW	C

P.O. # 2200838

Relinquished by: (signature) *[Signature]* Date/Time: 4/10 11:10  
 Received by: (signature) *[Signature]* Date/Time: 4/10 11:10  
 Relinquished by: (signature) *[Signature]* Date/Time:  
 Received by: (signature) *[Signature]* Date/Time:  
 Relinquished by: (signature) *[Signature]* Date/Time:  
 Received by: (signature) *[Signature]* Date/Time:

**Detection Limit Requirements**  
MA  
CT  
Other:

**Program Information**  
 MCP Analytical Certification Form Required  
 RCP Analysis Certification Form Required  
 MA State DW Form Required  
 PWSID # 1329000

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

**ANALYSIS REQUESTED**

Perfluorocarbons

Chlorine Residual

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

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

**3 Container Codes:**  
 A = Amber Glass  
 G = Glass  
 P = Plastic  
 ST = Sterile  
 V = Vial  
 S = Summa Canister  
 T = Tedlar Bag  
 O = Other (please define)

**Dissolved Metals Samples**  
 Field Filtered  
 Lab to Filter

**Orthophosphate Samples**  
 Field Filtered  
 Lab to Filter

# of Containers	Preservation Code	Container Code
9		
0		
P		

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples \_\_\_\_\_



**con-test**  
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Westfield Water

Received By WAP Date 4/10/20 Time 11:10

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

Were samples within Temperature? 2-6°C T By Gun # 5 Actual Temp - 3.0  
By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_

Was Custody Seal Intact? NA Were Samples Tampered with? NA  
Was COC Relinquished? T Does Chain Agree With Samples? T

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

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

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

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? \_\_\_\_\_

Are there Rushes? F Who was notified? \_\_\_\_\_

Are there Short Holds? F Who was notified? \_\_\_\_\_

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? f

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

Were trip blanks received? f On COC? f

Do all samples have the proper pH? NA Acid \_\_\_\_\_ Base \_\_\_\_\_

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

**Unused Media**

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

Comments: