

February 22, 2019

Brenda Lopez
City of Westfield - Westfield Water Dept.
Westfield DEW Water Division, 28 Sackett Street
Westfield, MA 01085

Project Location: Westfield
Client Job Number:
Project Number: 20170707 PFAS
Laboratory Work Order Number: 19B0258
PWSID# 1329000

Enclosed are results of analyses for samples received by the laboratory on February 6, 2019. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Emily E. Snyder
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
19B0258-01	5
19B0258-02	6
19B0258-03	7
19B0258-04	8
Sample Preparation Information	9
QC Data	10
Semivolatile Organic Compounds by - LC/MS-MS	10
B223402	10
Flag/Qualifier Summary	11
Certifications	12
Chain of Custody/Sample Receipt	13

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: Brenda Lopez

REPORT DATE: 2/22/2019

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 20170707 PFAS

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 19B0258

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

PROJECT LOCATION: Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
FB Well #2 POE	19B0258-01	Drinking Water		EPA 537	
Well #2 POE 10513	19B0258-02	Drinking Water		EPA 537	
Well #2 GAC 10524	19B0258-03	Drinking Water		EPA 537	
Well #2 RAW RW2	19B0258-04	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:**L-01**

Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

6:2 Fluorotelomersulfonate (6:2 FT)
B223402-BS1

L-03

Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Perfluorooctanesulfonamide (FOS)
B223402-BS1

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

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



Tod E. Kopycinski
Laboratory Director

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

Project Location: Westfield

Sample Description:

Work Order: 19B0258

Date Received: 2/6/2019

Field Sample #: FB Well #2 POE

Sampled: 2/6/2019 13:00

Sample ID: 19B0258-01

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	MCL/SMCL			Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA	ORSG					Prepared	Analyzed	
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:08	KAF	
Perfluorohexanoic acid (PFHxA)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:08	KAF	
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:08	KAF	
Perfluorobutanoic acid (PFBA)	ND	2.0			ng/L	1	EPA 537	2/12/19	2/21/19 19:08	KAF	
Perfluorodecanesulfonic acid (PFDS)	ND	2.0			ng/L	1	EPA 537	2/12/19	2/21/19 19:08	KAF	
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0			ng/L	1	EPA 537	2/12/19	2/21/19 19:08	KAF	
Perfluorooctanesulfonamide (FOSA)	ND	2.0			ng/L	1	EPA 537	2/12/19	2/21/19 19:08	KAF	
Perfluoropentanoic acid (PFPeA)	ND	2.0			ng/L	1	EPA 537	2/12/19	2/21/19 19:08	KAF	
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0			ng/L	1	EPA 537	2/12/19	2/21/19 19:08	KAF	
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0			ng/L	1	EPA 537	2/12/19	2/21/19 19:08	KAF	
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:08	KAF	
Perfluorooctanoic acid (PFOA)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:08	KAF	
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:08	KAF	
Perfluorononanoic acid (PFNA)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:08	KAF	
Perfluorodecanoic acid (PFDA)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:08	KAF	
NMeFOSAA	ND	2.0			ng/L	1	EPA 537	2/12/19	2/21/19 19:08	KAF	
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:08	KAF	
NEtFOSAA	ND	2.0			ng/L	1	EPA 537	2/12/19	2/21/19 19:08	KAF	
Perfluorododecanoic acid (PFDoA)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:08	KAF	
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:08	KAF	
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:08	KAF	
Surrogates		% Recovery	Recovery Limits				Flag/Qual				
13C-PFHxA		91.4	70-130					2/21/19 19:08			
13C-PFDA		90.9	70-130					2/21/19 19:08			
d5-NEtFOSAA		96.0	70-130					2/21/19 19:08			

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

Project Location: Westfield

Sample Description:

Work Order: 19B0258

Date Received: 2/6/2019

Field Sample #: Well #2 POE 10513

Sampled: 2/6/2019 13:05

Sample ID: 19B0258-02

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	MCL/SMCL			Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
		RL	MA	ORSG							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:21	KAF	
Perfluorohexanoic acid (PFHxA)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:21	KAF	
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:21	KAF	
Perfluorobutanoic acid (PFBA)	ND	2.0			ng/L	1	EPA 537	2/12/19	2/21/19 19:21	KAF	
Perfluorodecanesulfonic acid (PFDS)	ND	2.0			ng/L	1	EPA 537	2/12/19	2/21/19 19:21	KAF	
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0			ng/L	1	EPA 537	2/12/19	2/21/19 19:21	KAF	
Perfluorooctanesulfonamide (FOSA)	ND	2.0			ng/L	1	EPA 537	2/12/19	2/21/19 19:21	KAF	
Perfluoropentanoic acid (PFPeA)	ND	2.0			ng/L	1	EPA 537	2/12/19	2/21/19 19:21	KAF	
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0			ng/L	1	EPA 537	2/12/19	2/21/19 19:21	KAF	
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0			ng/L	1	EPA 537	2/12/19	2/21/19 19:21	KAF	
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:21	KAF	
Perfluorooctanoic acid (PFOA)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:21	KAF	
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:21	KAF	
Perfluorononanoic acid (PFNA)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:21	KAF	
Perfluorodecanoic acid (PFDA)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:21	KAF	
NMeFOSAA	ND	2.0			ng/L	1	EPA 537	2/12/19	2/21/19 19:21	KAF	
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:21	KAF	
NEtFOSAA	ND	2.0			ng/L	1	EPA 537	2/12/19	2/21/19 19:21	KAF	
Perfluorododecanoic acid (PFDoA)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:21	KAF	
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:21	KAF	
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2		ng/L	1	EPA 537	2/12/19	2/21/19 19:21	KAF	
Surrogates		% Recovery	Recovery Limits								
13C-PFHxA		112	70-130						2/21/19 19:21		
13C-PFDA		94.4	70-130						2/21/19 19:21		
d5-NEtFOSAA		107	70-130						2/21/19 19:21		

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

Project Location: Westfield

Sample Description:

Work Order: 19B0258

Date Received: 2/6/2019

Field Sample #: Well #2 GAC 10524

Sampled: 2/6/2019 13:10

Sample ID: 19B0258-03

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
		RL	MA ORSG							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	2/12/19	2/21/19 19:34	KAF
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	2/12/19	2/21/19 19:34	KAF
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	2/12/19	2/21/19 19:34	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0		ng/L	1		EPA 537	2/12/19	2/21/19 19:34	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0		ng/L	1		EPA 537	2/12/19	2/21/19 19:34	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0		ng/L	1		EPA 537	2/12/19	2/21/19 19:34	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0		ng/L	1		EPA 537	2/12/19	2/21/19 19:34	KAF
Perfluoropentanoic acid (PFPeA)	ND	2.0		ng/L	1		EPA 537	2/12/19	2/21/19 19:34	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0		ng/L	1		EPA 537	2/12/19	2/21/19 19:34	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0		ng/L	1		EPA 537	2/12/19	2/21/19 19:34	KAF
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	1		EPA 537	2/12/19	2/21/19 19:34	KAF
Perfluorooctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	2/12/19	2/21/19 19:34	KAF
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	2/12/19	2/21/19 19:34	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	2/12/19	2/21/19 19:34	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	2/12/19	2/21/19 19:34	KAF
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	2/12/19	2/21/19 19:34	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	2/12/19	2/21/19 19:34	KAF
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	2/12/19	2/21/19 19:34	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	2/12/19	2/21/19 19:34	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	2	ng/L	1		EPA 537	2/12/19	2/21/19 19:34	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	2/12/19	2/21/19 19:34	KAF
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
13C-PFHxA		117	70-130						2/21/19 19:34	
13C-PFDA		115	70-130						2/21/19 19:34	
d5-NEtFOSAA		126	70-130						2/21/19 19:34	

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Project Location: Westfield

Sample Description:

Work Order: 19B0258

Date Received: 2/6/2019

Field Sample #: Well #2 RAW RW2

Sampled: 2/6/2019 13:15

Sample ID: 19B0258-04

Sample Matrix: Drinking Water

Semivolatile Organic Compounds by - LC/MS-MS

Analyte	Results	RL	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
			MA	ORSG							
# Perfluorobutanesulfonic acid (PFBS)	2.7	2.0	2		ng/L	1		EPA 537	2/12/19	2/21/19 19:46	KAF
# Perfluorohexanoic acid (PFHxA)	5.6	2.0	2		ng/L	1		EPA 537	2/12/19	2/21/19 19:46	KAF
# Perfluoroheptanoic acid (PFHpA)	2.2	2.0	2		ng/L	1		EPA 537	2/12/19	2/21/19 19:46	KAF
Perfluorobutanoic acid (PFBA)	ND	2.0			ng/L	1		EPA 537	2/12/19	2/21/19 19:46	KAF
Perfluorodecanesulfonic acid (PFDS)	ND	2.0			ng/L	1		EPA 537	2/12/19	2/21/19 19:46	KAF
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0			ng/L	1		EPA 537	2/12/19	2/21/19 19:46	KAF
Perfluorooctanesulfonamide (FOSA)	ND	2.0			ng/L	1		EPA 537	2/12/19	2/21/19 19:46	KAF
Perfluoropentanoic acid (PFPeA)	3.1	2.0			ng/L	1		EPA 537	2/12/19	2/21/19 19:46	KAF
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0			ng/L	1		EPA 537	2/12/19	2/21/19 19:46	KAF
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0			ng/L	1		EPA 537	2/12/19	2/21/19 19:46	KAF
# Perfluorohexanesulfonic acid (PFHxS)	16	2.0	2		ng/L	1		EPA 537	2/12/19	2/21/19 19:46	KAF
# Perfluorooctanoic acid (PFOA)	5.2	2.0	2		ng/L	1		EPA 537	2/12/19	2/21/19 19:46	KAF
# Perfluorooctanesulfonic acid (PFOS)	7.6	2.0	2		ng/L	1		EPA 537	2/12/19	2/21/19 19:46	KAF
Perfluorononanoic acid (PFNA)	ND	2.0	2		ng/L	1		EPA 537	2/12/19	2/21/19 19:46	KAF
Perfluorodecanoic acid (PFDA)	ND	2.0	2		ng/L	1		EPA 537	2/12/19	2/21/19 19:46	KAF
NMeFOSAA	ND	2.0			ng/L	1		EPA 537	2/12/19	2/21/19 19:46	KAF
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2		ng/L	1		EPA 537	2/12/19	2/21/19 19:46	KAF
NEtFOSAA	ND	2.0			ng/L	1		EPA 537	2/12/19	2/21/19 19:46	KAF
Perfluorododecanoic acid (PFDoA)	ND	2.0	2		ng/L	1		EPA 537	2/12/19	2/21/19 19:46	KAF
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	2		ng/L	1		EPA 537	2/12/19	2/21/19 19:46	KAF
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2		ng/L	1		EPA 537	2/12/19	2/21/19 19:46	KAF
Surrogates											
13C-PFHxA		96.4				70-130				2/21/19 19:46	
13C-PFDA		87.5				70-130				2/21/19 19:46	
d5-NEtFOSAA		96.4				70-130				2/21/19 19:46	

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Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
19B0258-01 [FB Well #2 POE]	B223402	250	1.00	02/12/19
19B0258-02 [Well #2 POE 10513]	B223402	250	1.00	02/12/19
19B0258-03 [Well #2 GAC 10524]	B223402	250	1.00	02/12/19
19B0258-04 [Well #2 RAW RW2]	B223402	250	1.00	02/12/19

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B223402 - EPA 537										
Blank (B223402-BLK1)										
Prepared: 02/12/19 Analyzed: 02/21/19										
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorobutanoic acid (PFBA)	ND	2.0	ng/L							
Perfluorodecanesulfonic acid (PFDS)	ND	2.0	ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0	ng/L							
Perfluorooctanesulfonamide (FOSA)	ND	2.0	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
6:2 Fluorotelomersulfonate (6:2 FTS)	ND	2.0	ng/L							
8:2 Fluorotelomersulfonate (8:2 FTS)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	41.9		ng/L	40.0		105	70-130			
Surrogate: 13C-PFDA	39.4		ng/L	40.0		98.5	70-130			
Surrogate: d5-NEtFOSAA	164		ng/L	160		102	70-130			
LCS (B223402-BS1)										
Prepared: 02/12/19 Analyzed: 02/21/19										
Perfluorobutanesulfonic acid (PFBS)	2.07	2.0	ng/L	1.77		117	50-150			
Perfluorohexanoic acid (PFHxA)	2.48	2.0	ng/L	2.00		124	50-150			
Perfluoroheptanoic acid (PFHpA)	2.41	2.0	ng/L	2.00		121	50-150			
Perfluorobutanoic acid (PFBA)	0.792	2.0	ng/L	2.00		39.6	30-110			J
Perfluorodecanesulfonic acid (PFDS)	1.86	2.0	ng/L	1.93		96.6	50-150			J
Perfluoroheptanesulfonic acid (PFHpS)	1.76	2.0	ng/L	1.90		92.9	50-150			J
Perfluorooctanesulfonamide (FOSA)	0.241	2.0	ng/L	2.00		12.1	* 30-110			L-03, J
Perfluoropentanoic acid (PFPeA)	2.34	2.0	ng/L	2.00		117	50-150			
6:2 Fluorotelomersulfonate (6:2 FTS)	3.73	2.0	ng/L	1.90		197	* 50-150			L-01
8:2 Fluorotelomersulfonate (8:2 FTS)	2.44	2.0	ng/L	1.92		127	50-150			
Perfluorohexanesulfonic acid (PFHxS)	1.68	2.0	ng/L	1.82		92.1	50-150			J
Perfluorooctanoic acid (PFOA)	2.28	2.0	ng/L	2.00		114	50-150			
Perfluorooctanesulfonic acid (PFOS)	2.38	2.0	ng/L	1.85		129	50-150			
Perfluorononanoic acid (PFNA)	2.23	2.0	ng/L	2.00		112	50-150			
Perfluorodecanoic acid (PFDA)	2.11	2.0	ng/L	2.00		105	50-150			
NMeFOSAA	1.67	2.0	ng/L	2.00		83.7	50-150			J
Perfluoroundecanoic acid (PFUnA)	1.89	2.0	ng/L	2.00		94.7	50-150			J
NEtFOSAA	1.90	2.0	ng/L	2.00		94.8	50-150			J
Perfluorododecanoic acid (PFDoA)	1.52	2.0	ng/L	2.00		76.2	50-150			J
Perfluorotridecanoic acid (PFTrDA)	2.27	2.0	ng/L	2.00		113	50-150			
Perfluorotetradecanoic acid (PFTA)	1.73	2.0	ng/L	2.00		86.3	50-150			J
Surrogate: 13C-PFHxA	44.9		ng/L	40.0		112	70-130			
Surrogate: 13C-PFDA	40.0		ng/L	40.0		100	70-130			
Surrogate: d5-NEtFOSAA	154		ng/L	160		96.1	70-130			

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
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.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-03	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 537 in Drinking Water</i>	
Perfluorobutanesulfonic acid (PFBS)	NH,VT-DW,ME,RI,NJ
Perfluorohexanoic acid (PFHxA)	NH,VT-DW,ME,RI,NJ
Perfluoroheptanoic acid (PFHpA)	NH,VT-DW,ME,RI,NJ
Perfluorobutanoic acid (PFBA)	NH
Perfluorohexanesulfonic acid (PFHxS)	NH,VT-DW,ME,RI,NJ
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,RI,NJ
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,RI,NJ
Perfluorononanoic acid (PFNA)	NH,VT-DW,ME,RI,NJ
Perfluorodecanoic acid (PFDA)	NH,VT-DW,ME,RI,NJ
NMeFOSAA	NH,VT-DW,RI,NJ
Perfluoroundecanoic acid (PFUnA)	NH,VT-DW,ME,RI,NJ
NEtFOSAA	NH,VT-DW,RI,NJ
Perfluorododecanoic acid (PFDoA)	NH,VT-DW,ME,RI,NJ
Perfluorotridecanoic acid (PFTrDA)	NH,VT-DW,ME,RI,NJ
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME,RI,NJ

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2019
NC	North Carolina Div. of Water Quality	652	12/31/2019
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2019
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019



EES

Company Name: Westfield Water Resources

Address: 28 Sackett Street

Phone: 1-(413)-569-0668

Project Name: Well #2 PFOS

Project Location: Westfield

Project Number: Brenda Lopez

Project Manager: Hannah Larkham

Con-Test Bid: Hannah Larkham

Invoice Recipient: Hannah Larkham

Sampled By:

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

Rush-Approval Required
 1-Day 3-Day
 2-Day 4-Day
 Data Delivery
 Format: PDF EXCEL
 Other: _____

Enhanced Data Package Required:
 Email To: anda.lopez@cityofwestfield.org
 Email To: h.miller@cityofwestfield.org

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conic Code
1	FB Well #2 POE	2/6/19 1300	2/6/19 1300		Grab	DW	C
2	Well #2 POE 10513	2/6/19 1305	2/6/19 1305		Grab	DW	C
3	Well #2 GAC 10524	2/6/19 1310	2/6/19 1310		Grab	DW	C
4	Well #2 Raw RW2	2/6/19 1315	2/6/19 1315		Grab	DW	C

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:	Detection Limit Requirements
	2/6/19 15:26	MA
Received by: (signature)	Date/Time:	
13.4 RW#	2/6/19 15:44	CT
Relinquished by: (signature)	Date/Time:	
	Date/Time:	
Received by: (signature)	Date/Time:	
	Date/Time:	
Relinquished by: (signature)	Date/Time:	
	Date/Time:	

Program Information

MCP Analytical Certification Form Required
 RCP Analytical 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.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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 wwp

Received By SL Date 2/6/14 Time 15:14

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

Were samples within Temperature? 2-6°C F By Gun # 1 Actual Temp - 13.4
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
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

Are there Rushes? F

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? F

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? N/A

Who was notified? _____

Who was notified? _____

Who was notified? _____

MS/MSD? F

Is splitting samples required? F

On COC? F

Acid _____ Base _____

	#	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	7	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	2	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: