



# AQUA ENVIRONMENTAL LAB

56 Church Hill Road • Newtown, CT 06470 • (203) 270-9973

1<sup>st</sup> Sample

## Report of Analysis

**Name:** Water System Solutions Design Inc  
 PO Box 180  
 Watertown, CT 06795-0180

**Sample Date:** 12/3/2021 11:40 AM

**Receipt Date:** 12/3/2021 12:05 PM

**Report Date:** 12/16/2021

**Sample Site:** Weston School - Municipal - CT1570132

**Sample ID#:** 277317

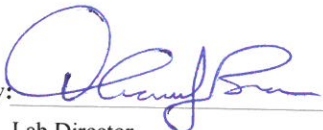
**Sample Type:** Drinking Water

**Sample Source:** Well 4

**Sampler:** RB

Parameter	Sample Result	Units	Limits	Method	RL	Analysis Date/Time
Organic Compounds PerFluoroOctanoic Acid	see attached	ng/L	No Limit Set	EPA 537	2	12/14/2021 16:52

ND = Not Detected  
 \* = Above Specified Limit

**Report Approved by:**   
 Lab Director

CT Lic PH-0787 NY Lic 11706

Analytical results relate to the samples as received at the laboratory. Report shall not be reproduced except in its entirety without written approval from the laboratory.



# Technical Report

## Perfluoroalkyl Substances (PFAS)

prepared for:

**Aqua Environmental Lab**  
56 Church Hill Road  
Newtown CT, 06470  
**Attention: T. Braun**

Report Date: 12/16/2021  
**Client Project ID: 277310/277317**  
York Project (SDG) No.: 21L0248

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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RICHMOND HILL, NY 11418  
ClientServices@yorklab.com

Report Date: 12/16/2021  
Client Project ID: 277310/277317  
York Project (SDG) No.: 21L0248

**Aqua Environmental Lab**  
56 Church Hill Road  
Newtown CT, 06470  
Attention: T. Braun

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## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 06, 2021 and listed below. The project was identified as your project: **277310/277317**.

The analyses were conducted utilizing appropriate EPA methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

Please contact Client Services at 203.325.1371 with any questions regarding this report or e-mail [clientservices@yorklab.com](mailto:clientservices@yorklab.com).

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21L0248-01	277310	Drinking Water	12/03/2021	12/06/2021
21L0248-02	277310 Field Blank	Drinking Water	12/03/2021	12/06/2021
21L0248-03	277317	Drinking Water	12/03/2021	12/06/2021
21L0248-04	277317 Field Blank	Drinking Water	12/03/2021	12/06/2021

**General Notes for York Project (SDG) No.: 21L0248**

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Cassie L. Mosher  
Laboratory Manager

Date: 12/16/2021





**Sample Information**

Client Sample ID: 277310 Field Blank

York Sample ID: 21L0248-02

York Project (SDG) No. Well 3  
21L0248

Client Project ID  
277310/277317

Matrix  
Drinking Water

Collection Date/Time  
December 3, 2021 11:20 am

Date Received  
12/06/2021

**PFAS, EPA 537.1 List**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Analyzed	Analyst
				MCL, ng/L						
763051-92-9	11CL-PF3OUdS	ND		0		ng/L	1.67	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 20:29	
13252-13-6	HFPO-DA (Gen-X)	ND		0		ng/L	1.67	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 20:29	
919005-14-4	ADONA	ND		0		ng/L	1.67	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 20:29	
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>						
	Surrogate: d5-N-EtFOSAA	114 %		70-130						
	Surrogate: 13C-PFDA	103 %		70-130						
	Surrogate: 13C-PFHxA	100 %		70-130						
	Surrogate: M3HFPO-DA	97.2 %		70-130						

**Sample Information**

Client Sample ID: 277317

York Sample ID: 21L0248-03

York Project (SDG) No. Well 4  
21L0248

Client Project ID  
277310/277317

Matrix  
Drinking Water

Collection Date/Time  
December 3, 2021 11:40 am

Date Received  
12/06/2021

**PFAS, EPA 537.1 List**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Analyzed	Analyst
				MCL, ng/L						
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.76		0		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 20:43	
307-24-4	Perfluorohexanoic acid (PFHxA)	4.95		0		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 20:43	
375-85-9	Perfluoroheptanoic acid (PFHpA)	3.03		0		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 20:43	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.04		0		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 20:43	
335-67-1	Perfluorooctanoic acid (PFOA)	9.08		10		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications:	NELAC-NY12058	12/15/2021 20:43	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	16.8	PFOS-X	10		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications:	NELAC-NY12058	12/15/2021 20:43	
375-95-1	Perfluorononanoic acid (PFNA)	1.90		0		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 20:43	
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 20:43	



Sample Information

Client Sample ID: 277317

York Sample ID: 21L0248-03

York Project (SDG) No. 21L0248

WHL4

Client Project ID 277310/277317

Matrix Drinking Water

Collection Date/Time December 3, 2021 11:40 am

Date Received 12/06/2021

PFAS, EPA 537.1 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

Table with columns: CAS No., Parameter, Result, Flag, Maximum Contaminant Level (MCL, ng/L), Units, Reported to LOQ, Reference Method, Date/Time Analyzed, Analyst. Includes surrogate recoveries for d5-N-EtFOSAA, 13C-PFDA, 13C-PFHxA, and M3HFPO-DA.

Sample Information

Client Sample ID: 277317 Field Blank

WHL

York Sample ID: 21L0248-04

York Project (SDG) No. 21L0248

Client Project ID 277310/277317

Matrix Drinking Water

Collection Date/Time December 3, 2021 11:40 am

Date Received 12/06/2021

PFAS, EPA 537.1 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

Table with columns: CAS No., Parameter, Result, Flag, Maximum Contaminant Level (MCL, ng/L), Units, Reported to LOQ, Reference Method, Date/Time Analyzed, Analyst. Lists Perfluorobutanesulfonic acid (PFBS) and Perfluorohexanoic acid (PFHxA).

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RICHMOND HILL, NY 11418  
ClientServices@



**Sample Information**

**Client Sample ID:** 277317 Field Blank

**York Sample ID:** 21L0248-04

**York Project (SDG) No.** 21L0248 *W4*

**Client Project ID**  
277310/277317

**Matrix**  
Drinking Water

**Collection Date/Time**  
December 3, 2021 11:40 am

**Date Received**  
12/06/2021

**PFAS, EPA 537.1 List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 537.1 SPE DVB

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level		Units	Reported to LOQ	Reference Method	Date/Time Analyzed	Analyst
				MCL, ng/L						
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 20:56	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 20:56	
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications: NELAC-NY12058		12/15/2021 20:56	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		10		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications: NELAC-NY12058		12/15/2021 20:56	
375-95-1	Perfluorononanoic acid (PFNA)	ND		0		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 20:56	
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 20:56	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 20:56	
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 20:56	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		0		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 20:56	
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		0		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 20:56	
2355-31-9	N-MeFOSAA	ND		0		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 20:56	
2991-50-6	N-EtFOSAA	ND		0		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 20:56	
756426-58-1	9CL-PF3ONS	ND		0		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 20:56	
763051-92-9	11CL-PF3OUdS	ND		0		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 20:56	
13252-13-6	HFPO-DA (Gen-X)	ND		0		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 20:56	
919005-14-4	ADONA	ND		0		ng/L	1.56	EPA 537.1	12/14/2021 11:08	WL
							Certifications:		12/15/2021 20:56	
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
Surrogate: d5-N-EtFOSAA		115 %	70-130							
Surrogate: 13C-PFDA		98.0 %	70-130							
Surrogate: 13C-PFHxA		82.0 %	70-130							
Surrogate: M3HFPO-DA		81.9 %	70-130							



### Analytical Batch Summary

Batch ID: BL12027

Preparation Method: EPA 537.1 SPE DVB

Prepared By: ER

YORK Sample ID	Client Sample ID	Preparation Date
21L0248-01	277310	12/14/21
21L0248-02	277310 Field Blank	12/14/21
21L0248-03	277317	12/14/21
21L0248-04	277317 Field Blank	12/14/21
BL12027-BLK1	Blank	12/14/21
BL12027-BS1	LCS	12/14/21
BL12027-BS2	LCS	12/14/21
BL12027-DUP1	Duplicate	12/14/21
BL12027-MS1	Matrix Spike	12/14/21





**PFAS Target compounds by LC/MS-MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC		Flag	RPD	
		Limit				Level	Result		Limits	RPD

**Batch BL12027 - EPA 537.1 SPE DVB**

**Blank (BL12027-BLK1)**

Prepared: 12/14/2021 Analyzed: 12/15/2021

Perfluorobutanesulfonic acid (PFBS)	ND	2.00	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.00	"							
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"							
Perfluorooctanoic acid (PFOA)	ND	2.00	"							
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"							
Perfluorononanoic acid (PFNA)	ND	2.00	"							
Perfluorodecanoic acid (PFDA)	ND	2.00	"							
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"							
Perfluorododecanoic acid (PFDoA)	ND	2.00	"							
Perfluorotridecanoic acid (PFTriDA)	ND	2.00	"							
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"							
N-MeFOSAA	ND	2.00	"							
N-EtFOSAA	ND	2.00	"							
9CL-PF3ONS	ND	2.00	"							
11CL-PF3OUdS	ND	2.00	"							
HFPO-DA (Gen-X)	ND	2.00	"							
ADONA	ND	2.00	"							
Surrogate: d5-N-EtFOSAA	412		"	320		129	70-130			
Surrogate: 13C-PFDA	93.0		"	80.0		116	70-130			
Surrogate: 13C-PFHxA	85.4		"	80.0		107	70-130			
Surrogate: M3HFPO-DA	86.4		"	80.0		108	70-130			

**LCS (BL12027-BS1)**

Prepared: 12/14/2021 Analyzed: 12/15/2021

Perfluorobutanesulfonic acid (PFBS)	59.5	2.00	ng/L	70.8		84.1	70-130			
Perfluorohexanoic acid (PFHxA)	74.1	2.00	"	80.0		92.6	70-130			
Perfluoroheptanoic acid (PFHpA)	76.3	2.00	"	80.0		95.4	70-130			
Perfluorohexanesulfonic acid (PFHxS)	68.1	2.00	"	76.0		89.5	70-130			
Perfluorooctanoic acid (PFOA)	74.1	2.00	"	80.0		92.7	70-130			
Perfluorooctanesulfonic acid (PFOS)	70.1	2.00	"	76.8		91.3	70-130			
Perfluorononanoic acid (PFNA)	74.4	2.00	"	80.0		93.0	70-130			
Perfluorodecanoic acid (PFDA)	76.4	2.00	"	80.0		95.5	70-130			
Perfluoroundecanoic acid (PFUnA)	75.6	2.00	"	80.0		94.5	70-130			
Perfluorododecanoic acid (PFDoA)	85.7	2.00	"	80.0		107	70-130			
Perfluorotridecanoic acid (PFTriDA)	88.7	2.00	"	80.0		111	70-130			
Perfluorotetradecanoic acid (PFTA)	73.9	2.00	"	80.0		92.3	70-130			
N-MeFOSAA	77.7	2.00	"	80.0		97.1	70-130			
N-EtFOSAA	78.5	2.00	"	80.0		98.2	70-130			
9CL-PF3ONS	64.9	2.00	"	74.8		86.8	60-130			
11CL-PF3OUdS	73.1	2.00	"	75.6		96.6	60-130			
HFPO-DA (Gen-X)	74.3	2.00	"	80.0		92.9	60-130			
ADONA	72.2	2.00	"	75.6		95.6	60-130			
Surrogate: d5-N-EtFOSAA	359		"	320		112	70-130			
Surrogate: 13C-PFDA	84.6		"	80.0		106	70-130			
Surrogate: 13C-PFHxA	83.9		"	80.0		105	70-130			
Surrogate: M3HFPO-DA	83.2		"	80.0		104	70-130			



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	RPD		
								Flag	RPD	Limit

Batch BL12027 - EPA 537.1 SPE DV8

LCS (BL12027-BS2)

Prepared: 12/14/2021 Analyzed: 12/15/2021

Perfluorobutanesulfonic acid (PFBS)	27.3	2.00	ng/L	35.4		77.1	70-130			
Perfluorohexanoic acid (PFHxA)	34.1	2.00	"	40.0		85.3	70-130			
Perfluoroheptanoic acid (PFHpA)	35.2	2.00	"	40.0		87.9	70-130			
Perfluorohexanesulfonic acid (PFHxS)	32.8	2.00	"	38.0		86.2	70-130			
Perfluorooctanoic acid (PFOA)	35.0	2.00	"	40.0		87.5	70-130			
Perfluorooctanesulfonic acid (PFOS)	32.8	2.00	"	38.4		85.5	70-130			
Perfluorononanoic acid (PFNA)	35.7	2.00	"	40.0		89.2	70-130			
Perfluorodecanoic acid (PFDA)	35.9	2.00	"	40.0		89.7	70-130			
Perfluoroundecanoic acid (PFUnA)	33.4	2.00	"	40.0		83.5	70-130			
Perfluorododecanoic acid (PFDoA)	37.2	2.00	"	40.0		93.1	70-130			
Perfluorotridecanoic acid (PFTriDA)	41.7	2.00	"	40.0		104	70-130			
Perfluorotetradecanoic acid (PFTA)	34.0	2.00	"	40.0		85.0	70-130			
N-MeFOSAA	38.1	2.00	"	40.0		95.3	70-130			
N-EtFOSAA	38.2	2.00	"	40.0		95.5	70-130			
9CL-PF3ONS	31.1	2.00	"	37.4		83.1	60-130			
11CL-PF3OUdS	32.3	2.00	"	37.8		85.4	60-130			
HFPO-DA (Gen-X)	34.1	2.00	"	40.0		85.4	60-130			
ADONA	33.1	2.00	"	37.8		87.6	60-130			
Surrogate: d5-N-EtFOSAA	393		"	320		123	70-130			
Surrogate: 13C-PFDA	88.7		"	80.0		111	70-130			
Surrogate: 13C-PFHxA	84.8		"	80.0		106	70-130			
Surrogate: M3HFPO-DA	86.6		"	80.0		108	70-130			

Duplicate (BL12027-DUP1)

\*Source sample: 21L0272-02 (Duplicate)

Prepared: 12/14/2021 Analyzed: 12/15/2021

Perfluorobutanesulfonic acid (PFBS)	ND	1.67	ng/L	ND						25
Perfluorohexanoic acid (PFHxA)	ND	1.67	"	ND						25
Perfluoroheptanoic acid (PFHpA)	ND	1.67	"	ND						25
Perfluorohexanesulfonic acid (PFHxS)	ND	1.67	"	ND						25
Perfluorooctanoic acid (PFOA)	ND	1.67	"	ND						25
Perfluorooctanesulfonic acid (PFOS)	ND	1.67	"	ND						25
Perfluorononanoic acid (PFNA)	ND	1.67	"	ND						25
Perfluorodecanoic acid (PFDA)	ND	1.67	"	ND						25
Perfluoroundecanoic acid (PFUnA)	ND	1.67	"	ND						25
Perfluorododecanoic acid (PFDoA)	ND	1.67	"	ND						25
Perfluorotridecanoic acid (PFTriDA)	ND	1.67	"	ND						25
Perfluorotetradecanoic acid (PFTA)	ND	1.67	"	ND						25
N-MeFOSAA	ND	1.67	"	ND						25
N-EtFOSAA	ND	1.67	"	ND						25
9CL-PF3ONS	ND	1.67	"	ND						25
11CL-PF3OUdS	ND	1.67	"	ND						25
HFPO-DA (Gen-X)	ND	1.67	"	ND						25
ADONA	ND	1.67	"	ND						25
Surrogate: d5-N-EtFOSAA	301		"	267		113	70-130			
Surrogate: 13C-PFDA	72.1		"	66.7		108	70-130			
Surrogate: 13C-PFHxA	69.3		"	66.7		104	70-130			
Surrogate: M3HFPO-DA	66.0		"	66.7		99.1	70-130			



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BL12027 - EPA 537.1 SPE DVB

Matrix Spike (BL12027-MS1)

\*Source sample: 21L0267-01 (Matrix Spike)

Prepared: 12/14/2021 Analyzed: 12/15/2021

Perfluorobutanesulfonic acid (PFBS)	42.0	1.56	ng/L	55.3	ND	75.9	70-130				
Perfluorohexanoic acid (PFHxA)	55.0	1.56	"	62.5	ND	88.0	70-130				
Perfluoroheptanoic acid (PFHpA)	59.5	1.56	"	62.5	ND	95.3	70-130				
Perfluorohexanesulfonic acid (PFHxS)	53.2	1.56	"	59.4	ND	89.7	70-130				
Perfluorooctanoic acid (PFOA)	59.2	1.56	"	62.5	ND	94.7	70-130				
Perfluorooctanesulfonic acid (PFOS)	55.6	1.56	"	60.0	ND	92.7	70-130				
Perfluorononanoic acid (PFNA)	58.2	1.56	"	62.5	ND	93.1	70-130				
Perfluorodecanoic acid (PFDA)	61.8	1.56	"	62.5	ND	98.8	70-130				
Perfluoroundecanoic acid (PFUnA)	58.0	1.56	"	62.5	ND	92.9	70-130				
Perfluorododecanoic acid (PFDoA)	55.8	1.56	"	62.5	ND	89.4	70-130				
Perfluorotridecanoic acid (PFTrDA)	50.5	1.56	"	62.5	ND	80.8	70-130				
Perfluorotetradecanoic acid (PFTA)	54.6	1.56	"	62.5	ND	87.3	70-130				
N-MeFOSAA	60.9	1.56	"	62.5	ND	97.4	70-130				
N-EtFOSAA	54.7	1.56	"	62.5	ND	87.5	70-130				
9CL-PF3ONS	52.7	1.56	"	58.4	ND	90.2	70-130				
11CL-PF3OUdS	52.9	1.56	"	59.1	ND	89.5	70-130				
HFPO-DA (Gen-X)	54.1	1.56	"	62.5	ND	86.5	70-130				
ADONA	55.7	1.56	"	59.1	ND	94.2	50-130				
Surrogate: d5-N-EtFOSAA	265		"	250		106	70-130				
Surrogate: 13C-PFDA	68.4		"	62.5		109	70-130				
Surrogate: 13C-PFHxA	64.0		"	62.5		102	70-130				
Surrogate: M3HFPO-DA	62.8		"	62.5		100	70-130				



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### Sample and Data Qualifiers Relating to This Work Order

- PFOS-X The level of PFOS detected in this sample exceeds the NYSDOH Maximum Contaminant Level of 10 ng/L)
- PFOA-X The level of PFOA in this sample exceeds the NYSDOH Maximum Contaminant Level of 10 ng/L)

#### Definitions and Other Explanations

- Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
- ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
- RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
- LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
- LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
- MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
- Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
- NR Not reported
- RPD Relative Percent Difference
- Wet The data has been reported on an as-received (wet weight) basis
- Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir. Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.
- MCL This is the Maximum Contaminant Level in ng/L (ppt) established by the NYSDOH for these compounds where an MCL is reported. Exceedences are flagged according.



**YORK**  
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# Field Chain-of-Custody Record

**NOTE:** YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No.

21-0248

Company:

Address:

Phone:

Contact:

E-mail:

Report To:

Company:

Address:

Phone:

Contact:

E-mail:

Invoice To:

Company:

Address:

Phone:

Contact:

E-mail:

YOUR Project Number

YOUR Project Name

YOUR PO#:

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

Turn-Around Time  
RUSH - Next Day  
RUSH - Two Day  
RUSH - Three Day  
RUSH - Four Day  
Standard (5-7 Day)

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time check will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)

Sample Identification

299310

099319

Matrix Codes

S - soil / solid

GW - groundwater

DW - drinking water

WW - wastewater

O - Oil ; Other

Sample Matrix

DW

1

Samples From

New York

New Jersey

Connecticut

Pennsylvania

Other

Date/Time Sampled

12/3/21 11:20am

1

11:45am

Report / EDD Type (circle selections)

Summary Report

CT RCP

CT RCP DO/DUE

NJDEP Reduced Deliverables

NJDKQP

Standard Excel EDD

EQUIS (Standard)

NYSDEC EQUIS

NJDEP SRP HazSite

Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Container Description

Analysis Requested

PEAS - 18

1

Comments:

Samples Requisitioned by / Company

Date/Time

12/2/21

8:57 am

Samples Requisitioned by / Company

Date/Time

12/3/21

11:45 am

Samples Requisitioned by / Company

Date/Time

12/3/21

11:45 am

Preservation: (check all that apply)

HCl \_\_\_ MeOH \_\_\_ HNO<sub>3</sub> \_\_\_ H<sub>2</sub>SO<sub>4</sub> \_\_\_ NaOH \_\_\_ ZnAc \_\_\_

Ascorbic Acid \_\_\_ Other: \_\_\_

Date/Time

12/3/21

11:45 am

Special Instruction

Field Filtered

Lab to Filter

Date/Time

12/3/21

11:45 am

Samples Received by / Company

Date/Time

12/3/21

11:45 am

Samples Requisitioned by / Company

Date/Time

12/2/21

8:57 am

Samples Received by / Company

Date/Time

12/3/21

11:45 am

Samples Received in LAB by

Date/Time

12/3/21

11:45 am

Samples Received at Lab

Date/Time

12/3/21

11:45 am

Date/Time

12/16/21

08:37

Date/Time

12/16/21

6:0

Degrees C



York Analytical Laboratories, Inc.  
**EXCEEDANCE ALERT for Potable Water**

York Work Order No.21L0248

*The following samples exhibited Levels that exceeded the MCL or other Regulatory Limit*

<u>Client:</u>		<u>Client Project</u>	<u>Client Project Number(s)</u>		
Aqua Environmental Lab		PFAS in Potable Water	277310/277317		

Lab ID	Client Sample	Analyte	Result	Units	MCL Limit, where applicable
21L0248-03	277317	Perfluorooctanesulfonic acid (PFOS)	16.8	ng/L	10
21L0248-01	277310	Perfluorooctanoic acid (PFOA)	13.3	ng/L	10
21L0248-01	277310	Perfluorooctanesulfonic acid (PFOS)	23.2	ng/L	10