



AQUA ENVIRONMENTAL LAB

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

Report of Analysis

2nd Sample

Name: Water System Solutions Design Inc
PO Box 180
Watertown, CT 06795-0180
Sample Date: 1/5/2022 1:20 PM
Receipt Date: 1/5/2022 2:40 PM
Report Date: 1/13/2022
Sample Site: Weston School - Municipal - CT1570132

Sample ID#: 278604
Sample Type: Drinking Water
Sample Source: Well 3
Sampler: RB

Parameter	Sample Result	Units	Limits	Method	RL	Analysis Date/Time
Organic Compounds						
PerFluoroButaneSulfonic Acid	ND	ng/L	No Limit Set	EPA 537	0.926	1/12/2022 19:17
PerFluoroHeptanoic Acid	4.62	ng/L	No Limit Set	EPA 537	0.926	1/12/2022 19:17
PerFluoroHexaneSulfonic Acid	2.11	ng/L	No Limit Set	EPA 537	0.926	1/12/2022 19:17
PerFluoroNonanoic Acid	3.22	ng/L	No Limit Set	EPA 537	0.926	1/12/2022 19:17
PerFluoroOctaneSulfonic Acid	21.4	ng/L	No Limit Set	EPA 537	0.926	1/12/2022 19:17
PerFluoroOctanoic Acid	13.0	ng/L	No Limit Set	EPA 537	0.926	1/12/2022 19:17

Comments: see attached

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: 01/13/2022

Client Project ID: 278604/278605

York Project (SDG) No.: 22A0232

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371

132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 01/13/2022
Client Project ID: 278604/278605
York Project (SDG) No.: 22A0232

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

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 January 06, 2022 and listed below. The project was identified as your project: **278604/278605**.

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.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
22A0232-01	278604	Drinking Water	01/05/2022	01/06/2022
22A0232-02	278604-FB	Drinking Water	01/05/2022	01/06/2022
22A0232-03	278605	Drinking Water	01/05/2022	01/06/2022
22A0232-04	278605-FB	Drinking Water	01/05/2022	01/06/2022

General Notes for York Project (SDG) No.: 22A0232

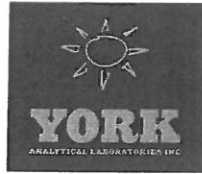
1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
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: 01/13/2022





Sample Information

Well 3
Client Sample ID: 278604-FB

York Sample ID: 22A0232-02

York Project (SDG) No. 22A0232 Client Project ID 278604/278605 Matrix Drinking Water Collection Date/Time January 5, 2022 1:20 pm Date Received 01/06/2022

PFAS, EPA 537.1 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

Table with 10 columns: CAS No., Parameter, Result, Flag, Maximum Contaminant Level (MCL, ng/L), Units, Reported to LOQ, Reference Method, Date/Time Analyzed, Analyst. Includes rows for 11CL-PF3OUdS, HFPO-DA (Gen-X), ADONA, and Surrogate Recoveries (d5-N-EtFOSAA, 13C-PFDA, 13C-PFHxA, M3HFPO-DA).

Well 4

Sample Information

Client Sample ID: 278605

York Sample ID: 22A0232-03

York Project (SDG) No. 22A0232 Client Project ID 278604/278605 Matrix Drinking Water Collection Date/Time January 5, 2022 1:20 pm Date Received 01/06/2022

PFAS, EPA 537.1 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

Table with 10 columns: CAS No., Parameter, Result, Flag, Maximum Contaminant Level (MCL, ng/L), Units, Reported to LOQ, Reference Method, Date/Time Analyzed, Analyst. Lists various perfluorinated acids like PFBS, PFHxA, PFHpA, PFHxS, PFOA, PFOS, PFNA, PFDA, PFUnA.



WELL3

Sample Information

Client Sample ID: 278604

York Sample ID: 22A0232-01

York Project (SDG) No.
22A0232

Client Project ID
278604/278605

Matrix
Drinking Water

Collection Date/Time
January 5, 2022 1:20 pm

Date Received
01/06/2022

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 MCL, ng/L	Units	Reported to LOQ	Reference Method	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0	ng/L	1.67	EPA 537.1	01/11/2022 12:32 01/12/2022 19:17	WL
307-24-4	Perfluorohexanoic acid (PFHxA)	8.79		0	ng/L	1.67	EPA 537.1	01/11/2022 12:32 01/12/2022 19:17	WL
375-85-9	Perfluoroheptanoic acid (PFHpA)	4.62		0	ng/L	1.67	EPA 537.1	01/11/2022 12:32 01/12/2022 19:17	WL
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.11		0	ng/L	1.67	EPA 537.1	01/11/2022 12:32 01/12/2022 19:17	WL
335-67-1	Perfluorooctanoic acid (PFOA)	13.0	PFOA-X	10	ng/L	1.67	EPA 537.1 NELAC-NY12058	01/11/2022 12:32 01/12/2022 19:17	WL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	21.4	PFOS-X	10	ng/L	1.67	EPA 537.1 NELAC-NY12058	01/11/2022 12:32 01/12/2022 19:17	WL
375-95-1	Perfluorononanoic acid (PFNA)	3.22		0	ng/L	1.67	EPA 537.1	01/11/2022 12:32 01/12/2022 19:17	WL
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0	ng/L	1.67	EPA 537.1	01/11/2022 12:32 01/12/2022 19:17	WL
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0	ng/L	1.67	EPA 537.1	01/11/2022 12:32 01/12/2022 19:17	WL
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0	ng/L	1.67	EPA 537.1	01/11/2022 12:32 01/12/2022 19:17	WL
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		0	ng/L	1.67	EPA 537.1	01/11/2022 12:32 01/12/2022 19:17	WL
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		0	ng/L	1.67	EPA 537.1	01/11/2022 12:32 01/12/2022 19:17	WL
2355-31-9	N-MeFOSAA	ND		0	ng/L	1.67	EPA 537.1	01/11/2022 12:32 01/12/2022 19:17	WL
2991-50-6	N-EtFOSAA	ND		0	ng/L	1.67	EPA 537.1	01/11/2022 12:32 01/12/2022 19:17	WL
756426-58-1	9CL-PF3ONS	ND		0	ng/L	1.67	EPA 537.1	01/11/2022 12:32 01/12/2022 19:17	WL
763051-92-9	11CL-PF3OUdS	ND		0	ng/L	1.67	EPA 537.1	01/11/2022 12:32 01/12/2022 19:17	WL
13252-13-6	HFPO-DA (Gen-X)	ND		0	ng/L	1.67	EPA 537.1	01/11/2022 12:32 01/12/2022 19:17	WL
919005-14-4	ADONA	ND		0	ng/L	1.67	EPA 537.1	01/11/2022 12:32 01/12/2022 19:17	WL

Surrogate Recoveries

Result

Acceptance Range

Surrogate: d5-N-EtFOSAA

103 %

70-130

Surrogate: 13C-PFDA

103 %

70-130

Surrogate: 13C-PFHxA

97.2 %

70-130



Well 3

Sample Information

Client Sample ID: 278604 **York Sample ID:** 22A0232-01
York Project (SDG) No. 22A0232 **Client Project ID** 278604/278605 **Matrix** Drinking Water **Collection Date/Time** January 5, 2022 1:20 pm **Date Received** 01/06/2022

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 MCL, ng/L	Units	Reported to LOQ	Reference Method	Date/Time Analyzed	Analyst
	Surrogate: M3HFPO-DA	93.6 %		70-130					

Sample Information

Client Sample ID: 278604-FB **York Sample ID:** 22A0232-02
York Project (SDG) No. 22A0232 **Client Project ID** 278604/278605 **Matrix** Drinking Water **Collection Date/Time** January 5, 2022 1:20 pm **Date Received** 01/06/2022

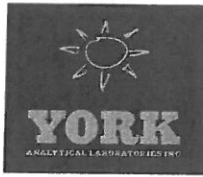
PFAS, EPA 537.1 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

CAS No.	Parameter	Result	Flag	Maximum Contaminant Level MCL, ng/L	Units	Reported to LOQ	Reference Method	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32 01/12/2022 19:30	WL
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32 01/12/2022 19:30	WL
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32 01/12/2022 19:30	WL
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32 01/12/2022 19:30	WL
335-67-1	Perfluorooctanoic acid (PFOA)	ND		10	ng/L	0.926	EPA 537.1	01/11/2022 12:32 01/12/2022 19:30	WL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		10	ng/L	0.926	EPA 537.1	01/11/2022 12:32 01/12/2022 19:30	WL
375-95-1	Perfluorononanoic acid (PFNA)	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32 01/12/2022 19:30	WL
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32 01/12/2022 19:30	WL
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32 01/12/2022 19:30	WL
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32 01/12/2022 19:30	WL
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32 01/12/2022 19:30	WL
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32 01/12/2022 19:30	WL
2355-31-9	N-MeFOSAA	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32 01/12/2022 19:30	WL
2991-50-6	N-EtFOSAA	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32 01/12/2022 19:30	WL
756426-58-1	9CL-PF3ONS	ND		0	ng/L	0.926	EPA 537.1	01/11/2022 12:32 01/12/2022 19:30	WL



Analytical Batch Summary

Batch ID: BA21612

Preparation Method: EPA 537.1 SPE DVB

Prepared By: ER

YORK Sample ID	Client Sample ID	Preparation Date
22A0232-01	278604	01/11/22
22A0232-02	278604-FB	01/11/22
22A0232-03	278605	01/11/22
22A0232-04	278605-FB	01/11/22
BA21612-BLK1	Blank	01/11/22
BA21612-BS1	LCS	01/11/22
BA21612-BS2	LCS	01/11/22
BA21612-DUP1	Duplicate	01/11/22
BA21612-MS1	Matrix Spike	01/11/22



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
---------	--------	-----------------	-------	-------------	----------------	------	-------------	------	-----	-----------	------

Batch BA21612 - EPA 537.1 SPE DVB

Blank (BA21612-BLK1)

Prepared: 01/11/2022 Analyzed: 01/12/2022

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	441		"	320		138	70-130				
Surrogate: 13C-PFDA	103		"	80.0		129	70-130				
Surrogate: 13C-PFHxA	88.0		"	80.0		110	70-130				
Surrogate: M3HFPO-DA	83.7		"	80.0		105	70-130				

LCS (BA21612-BS1)

Prepared: 01/11/2022 Analyzed: 01/12/2022

Perfluorobutanesulfonic acid (PFBS)	56.1	2.00	ng/L	70.8		79.2	70-130				
Perfluorohexanoic acid (PFHxA)	70.5	2.00	"	80.0		88.2	70-130				
Perfluoroheptanoic acid (PFHpA)	74.5	2.00	"	80.0		93.1	70-130				
Perfluorohexanesulfonic acid (PFHxS)	69.1	2.00	"	76.0		90.9	70-130				
Perfluorooctanoic acid (PFOA)	79.0	2.00	"	80.0		98.7	70-130				
Perfluorooctanesulfonic acid (PFOS)	74.6	2.00	"	76.8		97.1	70-130				
Perfluorononanoic acid (PFNA)	81.5	2.00	"	80.0		102	70-130				
Perfluorodecanoic acid (PFDA)	82.9	2.00	"	80.0		104	70-130				
Perfluoroundecanoic acid (PFUnA)	84.6	2.00	"	80.0		106	70-130				
Perfluorododecanoic acid (PFDoA)	89.4	2.00	"	80.0		112	70-130				
Perfluorotridecanoic acid (PFTriDA)	87.5	2.00	"	80.0		109	70-130				
Perfluorotetradecanoic acid (PFTA)	81.0	2.00	"	80.0		101	70-130				
N-MeFOSAA	76.9	2.00	"	80.0		96.1	70-130				
N-EtFOSAA	83.0	2.00	"	80.0		104	70-130				
9CL-PF3ONS	68.7	2.00	"	74.8		91.9	60-130				
11CL-PF3OUdS	74.1	2.00	"	75.6		98.0	60-130				
HFPO-DA (Gen-X)	69.5	2.00	"	80.0		86.9	60-130				
ADONA	70.7	2.00	"	75.6		93.5	60-130				
Surrogate: d5-N-EtFOSAA	433		"	320		135	70-130				
Surrogate: 13C-PFDA	99.7		"	80.0		125	70-130				
Surrogate: 13C-PFHxA	84.7		"	80.0		106	70-130				
Surrogate: M3HFPO-DA	82.8		"	80.0		103	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
---------	--------	-----------------	-------	-------------	----------------	------	-------------	------	-----	-----------	------

Batch BA21612 - EPA 537.1 SPE DVB

LCS (BA21612-BS2)

Prepared: 01/11/2022 Analyzed: 01/12/2022

Perfluorobutanesulfonic acid (PFBS)	29.6	2.00	ng/L	35.4		83.5	70-130				
Perfluorohexanoic acid (PFHxA)	35.7	2.00	"	40.0		89.3	70-130				
Perfluoroheptanoic acid (PFHpA)	35.2	2.00	"	40.0		87.9	70-130				
Perfluorohexanesulfonic acid (PFHxS)	33.9	2.00	"	38.0		89.1	70-130				
Perfluorooctanoic acid (PFOA)	37.4	2.00	"	40.0		93.5	70-130				
Perfluorooctanesulfonic acid (PFOS)	33.8	2.00	"	38.4		88.1	70-130				
Perfluorononanoic acid (PFNA)	40.3	2.00	"	40.0		101	70-130				
Perfluorodecanoic acid (PFDA)	37.8	2.00	"	40.0		94.6	70-130				
Perfluoroundecanoic acid (PFUnA)	37.6	2.00	"	40.0		93.9	70-130				
Perfluorododecanoic acid (PFDoA)	43.4	2.00	"	40.0		108	70-130				
Perfluorotridecanoic acid (PFTriDA)	41.0	2.00	"	40.0		103	70-130				
Perfluorotetradecanoic acid (PFTA)	39.3	2.00	"	40.0		98.4	70-130				
N-MeFOSAA	38.2	2.00	"	40.0		95.4	70-130				
N-EtFOSAA	39.5	2.00	"	40.0		98.6	70-130				
9CL-PF3ONS	32.3	2.00	"	37.4		86.5	60-130				
11CL-PF3OUdS	34.4	2.00	"	37.8		90.9	60-130				
HFPO-DA (Gen-X)	34.9	2.00	"	40.0		87.2	60-130				
ADONA	33.2	2.00	"	37.8		87.9	60-130				
Surrogate: d5-N-EtFOSAA	449		"	320		140	70-130				
Surrogate: 13C-PFDA	96.2		"	80.0		120	70-130				
Surrogate: 13C-PFHxA	89.7		"	80.0		112	70-130				
Surrogate: M3HFPO-DA	85.9		"	80.0		107	70-130				

Duplicate (BA21612-DUP1)

*Source sample: 22A0296-03 (Duplicate)

Prepared: 01/11/2022 Analyzed: 01/12/2022

Perfluorobutanesulfonic acid (PFBS)	5.60	1.47	ng/L		4.92				13.1	25	
Perfluorohexanoic acid (PFHxA)	9.23	1.47	"		8.52				7.99	25	
Perfluoroheptanoic acid (PFHpA)	5.80	1.47	"		5.51				5.07	25	
Perfluorohexanesulfonic acid (PFHxS)	3.69	1.47	"		3.15				15.7	25	
Perfluorooctanoic acid (PFOA)	18.0	1.47	"		16.4				9.18	25	
Perfluorooctanesulfonic acid (PFOS)	19.8	1.47	"		18.3				8.18	25	
Perfluorononanoic acid (PFNA)	1.50	1.47	"		1.40				7.20	25	
Perfluorodecanoic acid (PFDA)	0.969	1.47	"		ND					25	
Perfluoroundecanoic acid (PFUnA)	ND	1.47	"		ND					25	
Perfluorododecanoic acid (PFDoA)	ND	1.47	"		ND					25	
Perfluorotridecanoic acid (PFTriDA)	ND	1.47	"		ND					25	
Perfluorotetradecanoic acid (PFTA)	ND	1.47	"		ND					25	
N-MeFOSAA	ND	1.47	"		ND					25	
N-EtFOSAA	ND	1.47	"		ND					25	
9CL-PF3ONS	ND	1.47	"		ND					25	
11CL-PF3OUdS	ND	1.47	"		ND					25	
HFPO-DA (Gen-X)	ND	1.47	"		ND					25	
ADONA	ND	1.47	"		ND					25	
Surrogate: d5-N-EtFOSAA	308		"	235		131	70-130				
Surrogate: 13C-PFDA	71.0		"	58.8		121	70-130				
Surrogate: 13C-PFHxA	66.9		"	58.8		114	70-130				
Surrogate: M3HFPO-DA	63.1		"	58.8		107	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
---------	--------	-----------------	-------	-------------	----------------	------	-------------	------	-----	-----------	------

Batch BA21612 - EPA 537.1 SPE DVB

Matrix Spike (BA21612-MS1)	*Source sample: 22A0297-01 (Matrix Spike)					Prepared: 01/11/2022 Analyzed: 01/12/2022	
Perfluorobutanesulfonic acid (PFBS)	52.8	1.67	ng/L	59.0	5.78	79.7	70-130
Perfluorohexanoic acid (PFHxA)	66.7	1.67	"	66.7	6.86	89.8	70-130
Perfluoroheptanoic acid (PFHpA)	65.3	1.67	"	66.7	3.66	92.5	70-130
Perfluorohexanesulfonic acid (PFHxS)	57.4	1.67	"	63.3	2.29	87.0	70-130
Perfluorooctanoic acid (PFOA)	80.4	1.67	"	66.7	11.4	103	70-130
Perfluorooctanesulfonic acid (PFOS)	68.2	1.67	"	64.0	9.72	91.4	70-130
Perfluorononanoic acid (PFNA)	70.3	1.67	"	66.7	ND	106	70-130
Perfluorodecanoic acid (PFDA)	69.3	1.67	"	66.7	ND	104	70-130
Perfluoroundecanoic acid (PFUnA)	65.0	1.67	"	66.7	ND	97.6	70-130
Perfluorododecanoic acid (PFDoA)	66.6	1.67	"	66.7	ND	99.9	70-130
Perfluorotridecanoic acid (PFTriDA)	62.0	1.67	"	66.7	ND	93.1	70-130
Perfluorotetradecanoic acid (PFTA)	60.6	1.67	"	66.7	ND	90.9	70-130
N-MeFOSAA	64.2	1.67	"	66.7	ND	96.3	70-130
N-EtFOSAA	67.0	1.67	"	66.7	ND	100	70-130
9CL-PF3ONS	55.9	1.67	"	62.3	ND	89.7	70-130
11CL-PF3OUdS	54.7	1.67	"	63.0	ND	86.8	70-130
HFPO-DA (Gen-X)	59.8	1.67	"	66.7	ND	89.7	70-130
ADONA	59.7	1.67	"	63.0	ND	94.8	50-130
Surrogate: d5-N-EtFOSAA	308		"	267		115	70-130
Surrogate: 13C-PFDA	73.9		"	66.7		111	70-130
Surrogate: 13C-PFHxA	67.9		"	66.7		102	70-130
Surrogate: M3HFPO-DA	65.8		"	66.7		98.7	70-130





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 Analytical Laboratories, Inc.
 120 Research Drive
 Stratford, CT 06615
 clientservices@yorklab.com
 www.yorklab.com

Field Chain-of-Custody Record

YORK Project No.
 22A0232

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.

Page ___ of ___

YOUR Information Company: YORK ENVIRONMENTAL LAB Address: 58 Church Hill Rd. Middletown, CT 06470 Phone: 2032270 9973 Contact: AQUA E-mail: office@yorklab.com		Report To: Company: QA ENVIRONMENTAL LAB Address: 58 Church Hill Rd. Middletown, CT 06470 Phone: 2032270 9973 Contact: AQUA E-mail: office@yorklab.com		Invoice To: Company: Address: Phone: Contact: E-mail:		YOUR Project Number RUSH - Next Day RUSH - Two Day RUSH - Three Day RUSH - Four Day Standard (5-7 Day) <input checked="" type="checkbox"/>	
YOUR Project Name YOUR PO#:		Report / EDD Type (circle selections) Summary Report CT RCP CT RCP DQA/DUE NJDEP Reduced Deliverables NJDEP SRP HazSite Other:		YORK Reg. Comp. Compared to the following Regulation(s): (please fill in)		Container Description 3 3 1	

Sample Identification	Sample Matrix	Date/Time Sampled	Samples From	Analysis Requested	Container Description
278604	DW	01/05/22	New York	1:20pm PFOA'S	3
278605	DW	01/05/22	New Jersey	1:20pm PFOA'S	3
278629	S	1/6/22	Connecticut	7:24am *Please see analytes attached	1
			Pennsylvania		
			Other		

Comments:

Preservation: (check all that apply)
 HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___
 Ascorbic Acid ___ Other: ___

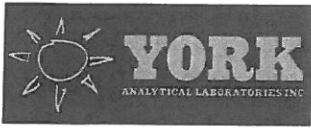
Samples Relinquished by / Company: **1/6/22 1100**
 Date/Time: **1/6/22 1100**

Samples Relinquished by / Company: **1/6/22**
 Date/Time: **1/6/22**

Samples Relinquished by / Company: **1/6/22 1134**
 Date/Time: **1/6/22 1134**

Samples Relinquished by / Company: **1/6/22 1134**
 Date/Time: **1/6/22 1134**

Temp. Received at Lab: **5.1**



York Analytical Laboratories, Inc.
EXCEEDANCE ALERT for Potable Water

York Work Order No.22A0232

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	278604/278605

Lab ID	Client Sample	Analyte	Result	Units	MCL Limit, where applicable
22A0232-01	278604	Perfluorooctanoic acid (PFOA)	13.0	ng/L	10
22A0232-01	278604	Perfluorooctanesulfonic acid (PFOS)	21.4	ng/L	10