

David Chiusano
Environmental Engineer/Project Manager
NYSDEC-DER
625 Broadway
12th Floor
Albany, NY 12233-7017
(sent via e-mail)

Arcadis of New York, Inc.
855 Route 146
Suite 210
Clifton Park
New York 12065
Phone: 518 250 7300
Fax: 518 371 2757
www.arcadis.com

Date: September 20, 2022
Our Ref: 30053848
Subject: Washington Lake Water Sampling
Site No. 336089

Dear Mr. Chiusano,

As requested by NYSDEC, Arcadis collected surface water samples from multiple locations at and downstream of Recreation Pond at Stewart Airport. One set of samples was collected on August 1, 2021 from Washington Lake in New Windsor, New York and additional samples were collected during five sampling events in 2022. Refer to Figure 1 for sample locations. Additionally, NYSDEC collected a set of samples from Washington Lake in 2017.

The samples were shipped to NYSDEC's callout laboratory where they were analyzed for per- and poly-fluorinated alkyl substances (PFAS) using EPA Method 533 except for the 2017 samples, which were analyzed by EPA Method 537 (modified). A complete summary of the sample results to date is attached.

Sampling and Reporting Notes:

- More than one sample was collected from each Washington Lake location where the Lake was deep enough to justify multiple samples as described in the approved *Washington Lake Sample Plan* dated July 30, 2021.
- When stream depths were adequate, two samples were collected at each location. One sample was taken 6 inches below the water surface and a second at the surface interface.
- Rainfall totals for the week preceding each sampling event (as measured at the nearest station at West Point, New York) are included for reference at the end of the results summary table.
- The Washington Lake drawdown treatment system was shut down several days before the June 28-29, 2022 sampling event to see if this affected the sample results.
- Figure 1 shows the sample locations and generally shows the flow direction of surface waters originating at Recreation Pond as well as Silver Stream and Moodna Creek that join with the Recreation Pond discharge.
- The table with Figure 2 shows the average PFAS concentrations at Recreation Pond and upper Silver Stream.
- The table with Figure 3 shows the average PFAS concentrations in Washington Lake and downstream of Washington Lake's spillway.
- The table with Figure 4 shows the average PFAS concentrations in the lower portion of Silver Stream and Moodna Creek after Silver Stream flows into it.
- Four charts are attached that show the variation of PFOA and PFOS concentrations as surface water leaves Recreation Pond. Two show the concentrations as water flows south via Silver Stream to Moodna Creek near the Town of New Windsor's Butterhill wells. The other two show the concentrations as the water would have

David Chiusano
NYSDEC
September 20, 2022

flowed through Washington Lake and through various water bodies before reaching Quassaick Creek before the gates allowing flow into Washington Lake were closed in 2016.

- The complete analytical results for the 2022 sampling events are attached. The 2021 results were previously provided in a September 8, 2021 letter report.
- The laboratory initially tested the March 2022 samples for the six Unregulated Contaminant Monitoring Rule (UCMR) compounds instead of the full set of PFAS in EPA Method 533. Both laboratory reports are attached.
- The laboratory submitted erroneous results for one of the samples from the June 28-29, 2022 sampling event. Only the corrected report is attached.

If you have questions about the sampling event or results, please feel free to call me.

Sincerely,
Arcadis of New York, Inc.

A handwritten signature in blue ink, appearing to read 'D. Bryant'.

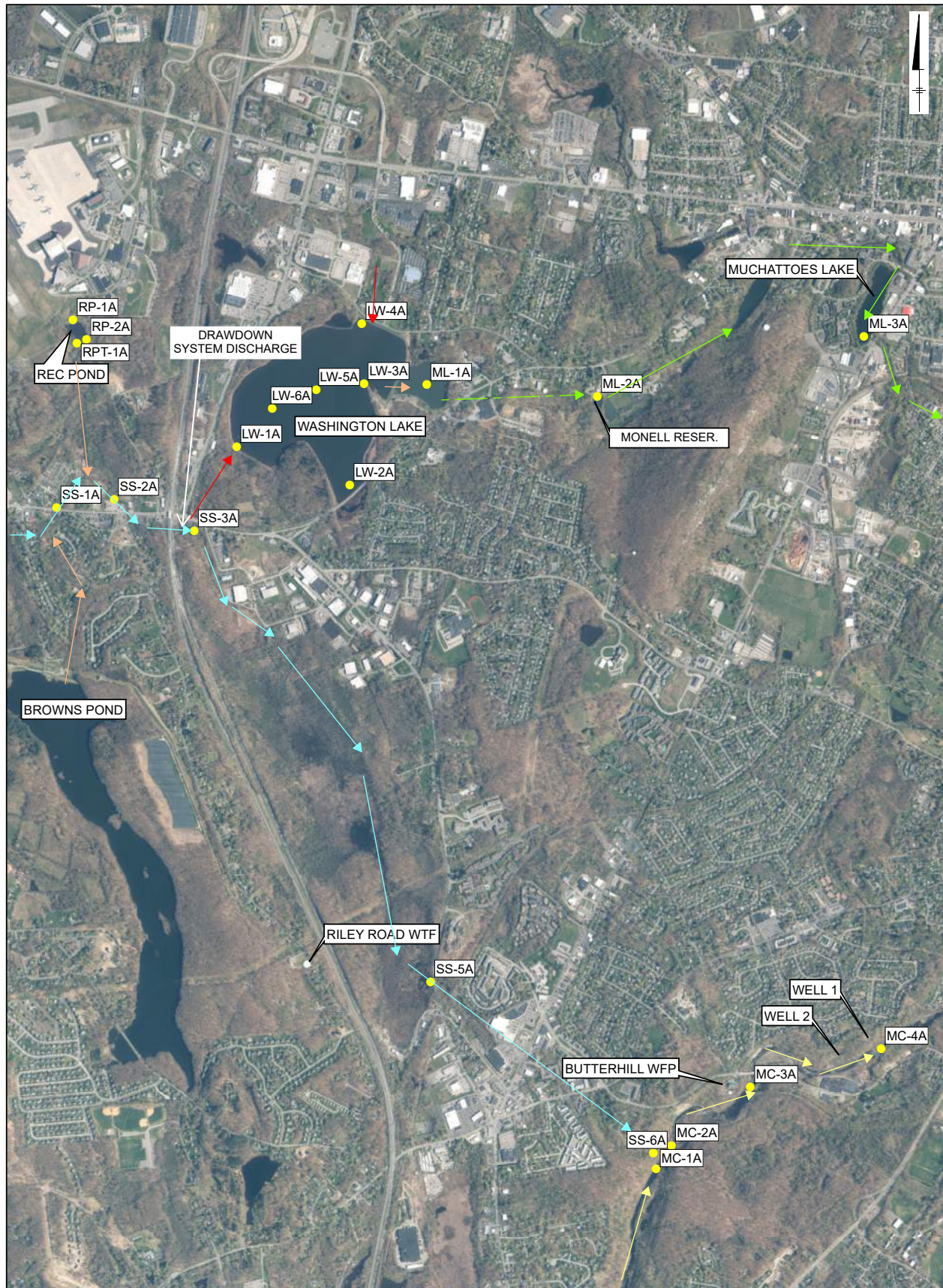
Dana Bryant, PE
Principal Water Engineer

Email: dana.bryant@arcadis.com
Direct Line: 518-250-7347

CC. M. Cruden, B. Rung - NYSDEC
D. Loewenstein, Arcadis

Attachments:

Figure 1 – Sampling Site Map
Figure 2 – PFAS Concentrations Rec Pond and Upper Silver Stream
Figure 3 – PFAS Concentrations Washington Lake and Downstream of Spillway
Figure 4 – PFAS Concentration Lower Silver Stream and Moodna Creek
Sampling Results Table with Rainfall Data
PFOA and PFOS Charts
2022 Analytical Reports



Legend

- Sampling Locations
- Silver Stream
- Historic Flows Currently Stopped by Closed Gates
- Moodna Creek
- Quassaick Creek
- Contributing Surface Flows

0 500 1,000
Feet

SILVER STREAM & WASHINGTON LAKE
 NEW WINDSOR, NEW YORK

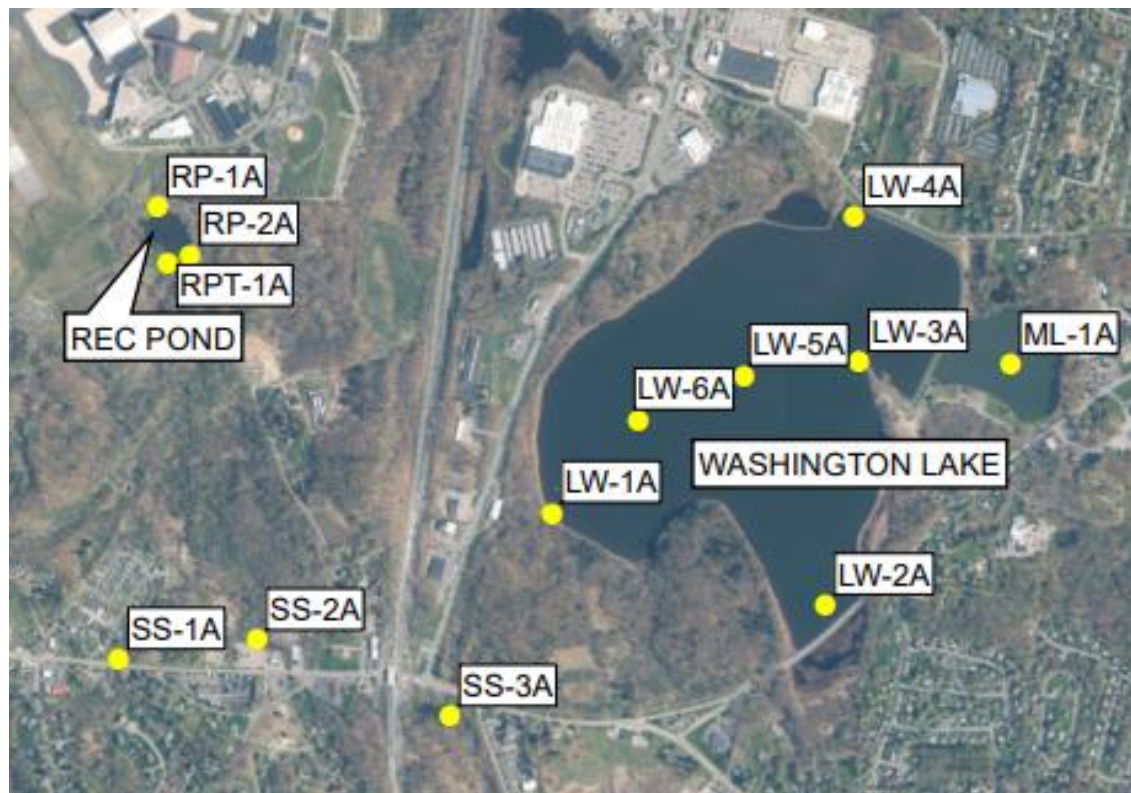
PFAS DETECTIONS IN
 SURFACE WATER



FIGURE
 1

Figure #2

Project Location: Newburgh, NY - Rec Pond & Upper Silver Stream



PFAS Concentrations (ng/L) through July 2022

	PFBA	PFPeA	PFHxA	PFHpA	PFOA	PFNA	PFDA	PFUnA	PFDoA	PFBS	PFHxS	PFHpS	PFOS	PFPeS	4:2	6:2	8:2	Total PFAS
Rec Pond¹	45	117.5	93.6	44.8	43.7	12.5	9.1	ND	1.34	21.1	130.7	10.9	403.5	17.3	1.3	92.8	18	1,063
Rec Pond Treated²	24.8	41.7	20.9	7.8	7.8	2.6	3.2	0.2	ND	2.2	19.1	1.2	58.8	2.1	ND	15.4	5.3	213
Rec Pond Treated³	22.8	29.2	7.1	1.8	ND	ND	ND	ND	ND	ND	2.6	ND	9.5	ND	ND	ND	ND	73
Upper Silver Stream⁴	15.5	30.9	19	10.2	13	2.6	0.4	ND	ND	4.9	27.1	0.2	44.3	2.2	ND	2.7	0.6	174

*Some values are averages of multiple depths, refer to the summary spreadsheet for more detail

** ND compounds not listed: F53B Major, F53B Minor, ADONA, HFPO-DA, PFEEESA, PFMPA, PFMBA, NFDHA

¹ Average of RP-1A and RP-2A

² RPT-1A

³ RPT-1A (removes March 2022 sampling event was treatment was bypassed, treatment system has only able to maintain drawdown control on pond water elevation approximately 48% of the time since start-up in July 2020)

⁴ Average of SS-2A and SS-3A (SS-1A is upstream of Rec Pond contribution)

Figure #3

Project Location: Newburgh, NY – Washington Lake & Downstream of Spillway



PFAS Concentrations (ng/L) through July 2022

	PFBA	PFPeA	PFHxA	PFHpA	PFOA	PFNA	PFDA	PFDoA	PFBS	PFHxS	PFHpS	PFOS	PFPeS	6:2	Total PFAS
Washington Lake ¹	13.7	31.5	23	10	10.4	2.5	0.6	0.4	4.1	15.1	0.1	46.8	1.9	3.7	164
Downstream of Washington Lake ²	4.9	8.5	6.1	4.6	9.4	0.4	ND	ND	6	4.3	ND	14.4	ND	2.4	61

*Some values are averages of multiple depths, refer to the summary spreadsheet for more detail

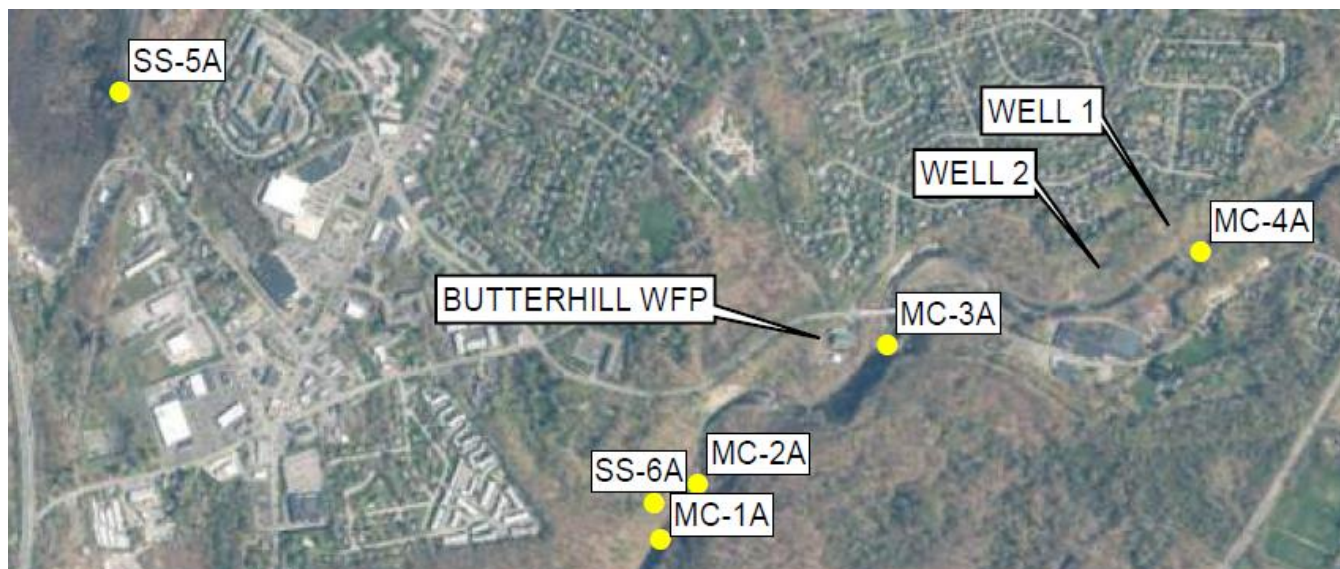
** ND compounds not listed: PFUnA, F53B Major, F53B Minor, 4:2 FTS, 8:2, ADONA, HFPO-DA, PFEESA, PFMPA, PFMBA, NFDHA

¹ Average of all LW sample sites

² Average of ML-1A, ML-2A, ML-3A

Figure #4

Project Location: Newburgh, NY – Lower Silver Stream & Moodna Creek



PFAS Concentrations (ng/L) through July 2022

	PFBA	PFPeA	PFHxA	PFHpA	PFOA	PFNA	PFDA	PFBS	PFHxS	PFHpS	PFOS	PFPeS	6:2	8:2	Total PFAS
Lower Silver Stream ¹	18.2	40.7	25.8	15.8	19.9	4.9	2.5	5.8	35.8	0.7	80.7	3.1	5.2	1.4	261
Moodna Creek after Silver Stream ²	6.4	12.1	8.2	4.8	7.5	0.6	ND	3.9	7.8	ND	22.8	ND	1.6	ND	76

*Some values are averages of multiple depths, refer to the summary spreadsheet for more detail

** ND compounds not listed: PFUnA, PFDoA, F53B Major, F53B Minor, 4:2 FTS, ADONA, HFPO-DA, PFEESA, PFMPA, PFMBA, NFDHA

¹ Average of SS-5A and SS-6A

² Average of MC-2A, MC-3A, MC-4A (MC-1A is upstream of Silver Stream contribution)

NEWBURGH / NEW WINDSOR SURFACE WATER SAMPLING

Surface Water Sampling Results		Project No. 30053849															
Parameter	Location	RP - 1A					RP - 2A					RPT - 1A					
	Sampler	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	
	Date	3/15/2022	6/15/2022	6/29/2022	7/13/2022	7/26/2022	3/15/2022	6/15/2022	6/29/2022	7/13/2022	7/26/2022	3/15/2022	6/15/2022	6/15/2022	6/29/2022	7/13/2022	7/26/2022
	Depth	S/6"	S/6"	S/6"	S/6"	S/6"	S/6"	S/6"	S/6"	S/6"	S/6"	S/6"	S/6"	S	6"	S/6"	S/6"
Perfluorobutanoic acid (PFBA)		22 / 21	32 / 37	55 / 55	65 / 63	48 / 46	29 / 27	38 / 34	55 / 52	56 / 68	49 / 48	30 / 30	17	17 / 18	23 / 22	44 / 44	11 / 9.6
Perfluoropentanoic acid (PFPeA)		67 / 61	87 / 110	150 / 140	150 / 150	130 / 120	94 / 88	110 / 92	150 / 130	130 / 150	120 / 120	91 / 86	22	20 / 26	25 / 24	63 / 59	13 / 11
Perfluorohexanoic acid (PFHxA)		57 / 51	71 / 86	120 / 110	120 / 120	91 / 88	77 / 72	87 / 76	120 / 110	110 / 130	87 / 88	69 / 63	6	5.9 / 7.2	8 / 7.8	22 / 21	3.0 / 2.6
Perfluoroheptanoic acid (PFHpA)		28 / 25	36 / 44	57 / 54	56 / 57	44 / 43	37 / 34	43 / 37	51 / 50	53 / 62	43 / 42	33 / 29			1.8 / 1.9	6.2 / 6.3	
Perfluorooctanoic acid (PFOA)		33 / 30	35 / 44	54 / 52	56 / 50	41 / 40	38 / 39	42 / 39	52 / 46	47 / 56	39 / 41	38 / 32				4.5 / 3.7	
Perfluorononanoic acid (PFNA)		8.6 / 8.2	13 / 14	22 / 15	15 / 14	11 / 11	9.7 / 11	13 / 12	13 / 11	14 / 14	9.8 / 11	17 / 9.1					
Perfluorodecanoic acid (PFDA)		8.3 / 7.4	7 / 8.9	11 / 10	13 / 12	9.0 / 8.5	11 / 11	9.4 / ND	9.6 / 7.6	12 / 10	9.5 / 8.8	24 / 7.7					
Perfluoroundecanoic acid (PFUnA)												2.0 / ND					
Perfluorododecanoic acid (PFDoA)				3.5 / ND	3.3 / 2.8	2.1 / 1.9			2.4 / ND	3.3 / 2.9	2.1 / 2.3						
Perfluorobutanesulfonic acid (PFBS)		14 / 13	16 / 20	25 / 24	30 / 30	20 / 19	13 / 13	20 / 17	24 / 24	28 / 32	19 / 21	12 / 10					
Perfluorohexanesulfonic acid (PFHxS)		88 / 76	ND / 140	160 / 170	160 / 170	130 / 120	110 / 99	140 / 120	170 / 190	140 / 180	130 / 120	93 / 74			2.9 / 2.9	8.5 / 7.7	1.8 / ND
Perfluoroheptanesulfonic acid (PFHpS)		5.2 / 4.6	9.2 / 11	13 / 12	21 / 18	11 / 10	5.2 / 5.4	12 / ND	12 / 11	18 / 22	9.5 / 11	7.5 / 4.6					
Perfluorooctanesulfonic acid (PFOS)		210 / 190	490 / 579	470 / 470	390 / 360	440 / 410	200 / 190	590 / 520	450 / 510	400 / 410	380 / 410	340 / 170	7	8.6 / 6.4	8.2 / 6.6	20 / 17	6.0 / 5.4
Perfluoropentanesulfonic acid (PFPeS)		11 / 9.8	16 / 19	24 / 24	26 / 28	17 / 17	14 / 13	20 / ND	25 / 24	24 / ND	17 / 17	12 / 9.4					
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F53B Major)																	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F53B Minor)																	
4:2 FTS				2.8 / 2.7	2.2 / 2.2	1.8 / ND			3.2 / 2.6	2.1 / 2.5	1.7 / 1.8						
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)		62 / 58	60 / 64	100 / 110	140 / 120	99 / 91	72 / 73	69 / 58	120 / 120	110 / 140	98 / 91	82 / 62			2.1 / 1.9	3.1 / 3.2	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)		18 / 18	5 / 8	ND / 15	36 / 33	12 / 15	18 / 16	10 / 5.9	25 / 20	38 / 32	16 / 19	38 / 13				1.7 / ND	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)																	
Hexafluoropropylene oxide dimer acid (HFPO-DA)																	
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)																	
Perfluoro-4-oxapentanoic acid (PFMPA)																	
Perfluoro-5-oxahexanoic acid (PFMBA)																	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)																	

Parameter	Location	LW - 1A												LW - 2A						LW - 3A												
	Sampler	NYSDEC	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	NYSDEC	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis
	Date	8/30/2017	8/11/2021	8/11/2021	3/15/2022	6/14/2022	6/14/2022	6/28/2022	6/28/2022	7/12/2022	7/12/2022	7/27/2022	7/27/2022	8/11/2021	8/11/2021	3/15/2022	6/14/2022	6/28/2022	7/12/2022	7/27/2022	8/30/2017	8/11/2021	8/11/2021	3/15/2022	6/14/2022	6/14/2022	6/28/2022	6/28/2022	7/12/2022	7/12/2022	7/26/2022	7/26/2022
Depth	Unknown	Top	Bottom	S/6"	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	S/6"	Middle	Middle	Middle	Middle	Unknown	Top	Bottom	S/6"	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	
Perfluorobutanoic acid (PFBA)		25	16	16	14 / 13	14	14	14	13	14.0	13.0	12.0	12.0	15	15	10 / 11	15	14	14.0	13.0	25	15	16	12 / 12	14	13	14	12	15.0	15.0	12.0	12.0
Perfluoropentanoic acid (PFPeA)		53	38	39	27 / 30	32	31	33	35	33.0	31.0	26.0	27.0	36	38	25 / 25	32	34	32.0	31.0	52	37	40	26 / 27	32	26	34	33	34.0	36.0	29.0	31.0
Perfluorohexanoic acid (PFHxA)		55	23	22	20 / 21	22	22	24	25	24.0	23.0	19.0	21.0	22	21	17 / 19	21	25	24.0	22.0	55	21	24	20 / 21	21	19	25	24	25.0	27.0	21.0	22.0
Perfluoroheptanoic acid (PFHpA)		27	9.4	12	9.2 / 9.0	8	7	11	12	11.0	11.0	7.7	8.6	9.8	11	7.9 / 8.6	8	11	11.0	9.3	26	9.6	11	9.3 / 9.5	8	7	12	11	12.0	12.0	9.3	9.9
Perfluorooctanoic acid (PFOA)		29	10	9.9	9.0 / 9.6	8.9	6.9	11.0	12.0	11.0	11.0	8.9	8.8	9.5	9.6	8.4 / 9.3	7.3	12.0	11.0	9.9	29	9.7	11	10 / 10	9	9	11	11	11.0	12.0	9.3	9.8
Perfluorononanoic acid (PFNA)		6.6	2.4	2.7	2.3 / 2.7	2.0	1.9	2.3	2.7	2.6	2.6	2.4	2.4	2.5	2.4	2.8 / 2.4	1.9	2.5	2.8	2.7	7.2	2.4	2.8	5.5 / 4.9	2.2	2.0	2.8	2.5	2.8	2.9	2.4	2.5
Perfluorodecanoic acid (PFDA)		5.5							1.7	2.0						1.9 / ND			1.7		5.0	1.6	1.8	5.6 / 2.9			1.9	1.7	2.0	1.7		
Perfluoroundecanoic acid (PFUnA)																				3.8												
Perfluorododecanoic acid (PFDoA)																				0.57												
Perfluorobutanesulfonic acid (PFBS)		11	3.7	3.8	3.2 / 3.2	3.5	3.4	6.2	5.8	4.2	4.0	2.6	2.8	3.7	3.6	2.7 / 3.0	3.6	5.7	4.2	2.9	11	3.6	3.9	3.1 / 3.2	3.5	3.2	6.0	6.2	4.3	4.4	2.7	4.2
Perfluorohexanesulfonic acid (PFHxS)		67	15	15	15 / 16	12	13	15	15	15.0	15.0	13.0	13.0	15	15	13 / 14	13	16	15.0	15.0	68	16	17	17 / 15	14	14	16	15	15.0	16.0	13.0	14.0
Perfluoroheptanesulfonic acid (PFHpS)		2.4																		2.4												
Perfluorooctanesulfonic acid (PFOS)		140	33	34	34 / 38	35	30	35	37	40.0	38.0	32.0	33.0	32	32	48 / 31	30	37	36.0	35.0	130	35	40	140 / 87	35	36	39	36	40.0	40.0	32.0	40.0
Perfluoropentanesulfonic acid (PFPeS)		*	2.6	2.6	1.8 / 1.8			2.1	2.2	2.2	2.2		1.8	2.6	2.6	ND / 1.8	1.9	2.2	2.2	1.9	*	2.6	3.2	2.0 / 1.8	1.8	1.8	2.3	2.2	2.2	2.2	1.7	1.7
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F53B Major)		*																		*												
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F53B Minor)		*																		*												
4:2 FTS		*																		*												
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)		5.0	13		ND / 2.6														31.0		5.0								25.0			
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)																																
4,8-dioxa-3H-perfluorononanoic acid (ADONA)																																
Hexafluoropropylene oxide dimer acid (HFPO-DA)																																
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)																																
Perfluoro-4-oxapentanoic acid (PFMPA)																																
Perfluoro-5-oxahexanoic acid (PFMBA)																																
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)																																

Parameter	Location	LW - 4A												LW - 5A						LW - 6A												
	Sampler	NYSDEC	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	
	Date	8/30/2017	8/11/2021	3/15/2022	6/14/2022	6/28/2022	7/12/2022	7/27/2022	6/14/2022	6/14/2022	6/14/2022	6/28/2022	6/28/2022	6/28/2022	7/12/2022	7/12/2022	7/12/2022	7/27/2022	7/27/2022	6/14/2022	6/14/2022	6/14/2022	6/28/2022	6/28/2022	6/28/2022	6/28/2022	7/12/2022	7/12/2022	7/27/2022	7/27/2022	7/27/2022	
Depth	Unknown	Middle	S/6"	Middle	Middle	Middle	Middle	Top	Bottom	Middle	Top	Bottom	Middle	Top	Bottom	Middle	Top	Bottom	Middle	Top	Bottom	Middle	Top	Bottom	Middle	Top	Bottom	Middle	Top	Bottom	Middle	
Perfluorobutanoic acid (PFBA)		26	15	13 / 13	14	13	14.0	12.0	11	12	14	15	13	14	13	14	15	12	12	12	16	14	15	14	13	14	15	14.0	15.0	12.0	11.0	12.0
Perfluoropentanoic acid (PFPeA)		55	36	27 / 28	33	33	33.0	28.0	32	27	29	34	32	35	31	34	35	28	30	30	33	28	33	34	33	34	30	32.0	33.0	29.0	29.0	30.0
Perfluorohexanoic acid (PFHxA)		56	22	21 / 21	23	24	25.0	20.0	22	19	20	25	24	25	23	26	26	20	21	21	23	20	23	25	25	25	22	25.0	24.0	20.0	22.0	22.0
Perfluoroheptanoic acid (PFHpA)		27	8.7	9.7 / 9.7	9.4	11.0	12.0	8.3	8.8	6.9	7.4	11.0	12.0	12.0	11.0	12.0	12.0	8.3	9.1	8.8	8.3	7.5	8.5	11.0	12.0	12.0	9.4	13.0	12.0	8.3	9.0	9.1
Perfluorooctanoic acid (PFOA)		30	9.5	11 / 12	11.0	12.0	12.0	9.0	7.8	7.5	8.2	12.0	13.0	12.0	10.0	13.0	12.0	8.5	11.0	10.0	9.0	8.0	8.7	11.0	12.0	12.0	10.0	12.0	11.0	9.5	11.0	10.0
Perfluorononanoic acid (PFNA)		20	2.7	4.2 / 4	3.1	2.5	2.9		1.8	2.0	2.0	2.7	2.7	2.9	2.2	2.9	3.2		2.8	2.6	2.1	2.1	2.2	2.5	2.8	2.9	2.5	2.6	2.8	2.4	2.6	2.6
Perfluorodecanoic acid (PFDA)		8.4	2.4	8.0 / 3.7		1.8	2.0							1.9		1.9	2.0								2.0	2.0		1.8	1.8			
Perfluoroundecanoic acid (PFUnA)		19																														
Perfluorododecanoic acid (PFDoA)		0.56																														
Perfluorobutanesulfonic acid (PFBS)		11	3.5	3.2 / 3.4	3.7	6.4	4.3	2.7	3.7	3.1	3.4	6.4	5.9	6.5	4.1	4.3	4.3	2.6	2.8	2.7	3.8	3.6	3.6	6.5	5.9	5.9	3.6	4.1	4.1	2.7	2.7	2.9
Perfluorohexanesulfonic acid (PFHxS)		67	14	16 / 16	13	15	15.0	13.0	13	13	14	16	17	17	14	18	17	12	16	14	14	14	16	17	16	14	18.0	16.0	13.0	14.0	15.0	
Perfluoroheptanesulfonic acid (PFHpS)		2.5																														
Perfluorooctanesulfonic acid (PFOS)		150	46	130 / 90	36	39	39.0	32.0	33	40	39	38	45	43	36	50	45	30	43	39	37	36	39	36	43	44	35	42.0	44.0	33.0	43.0	42.0
Perfluoropentanesulfonic acid (PFPeS)		*	2.6	1.9 / 1.8	1.8	2.2	2.3		1.7		1.8	2.2	2.2	2.1	2.1	2.5	2.3		1.8		2.0	1.9	1.8	2.2	2.2	2.2	1.7	2.5	2.3		1.9	1.8
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F53B Major)		*																														
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F53B Minor)		*																														
4:2 FTS		*																														
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)		5.4					1.8								38		46										30		25.0			
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)																																
4,8-dioxa-3H-perfluorononanoic acid (ADONA)																																
Hexafluoropropylene oxide dimer acid (HFPO-DA)																																
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)																																
Perfluoro-4-oxapentanoic acid (PFMPA)																																
Perfluoro-5-oxahexanoic acid (PFMBA)																																
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)																																

NEWBURGH / NEW WINDSOR SURFACE WATER SAMPLING

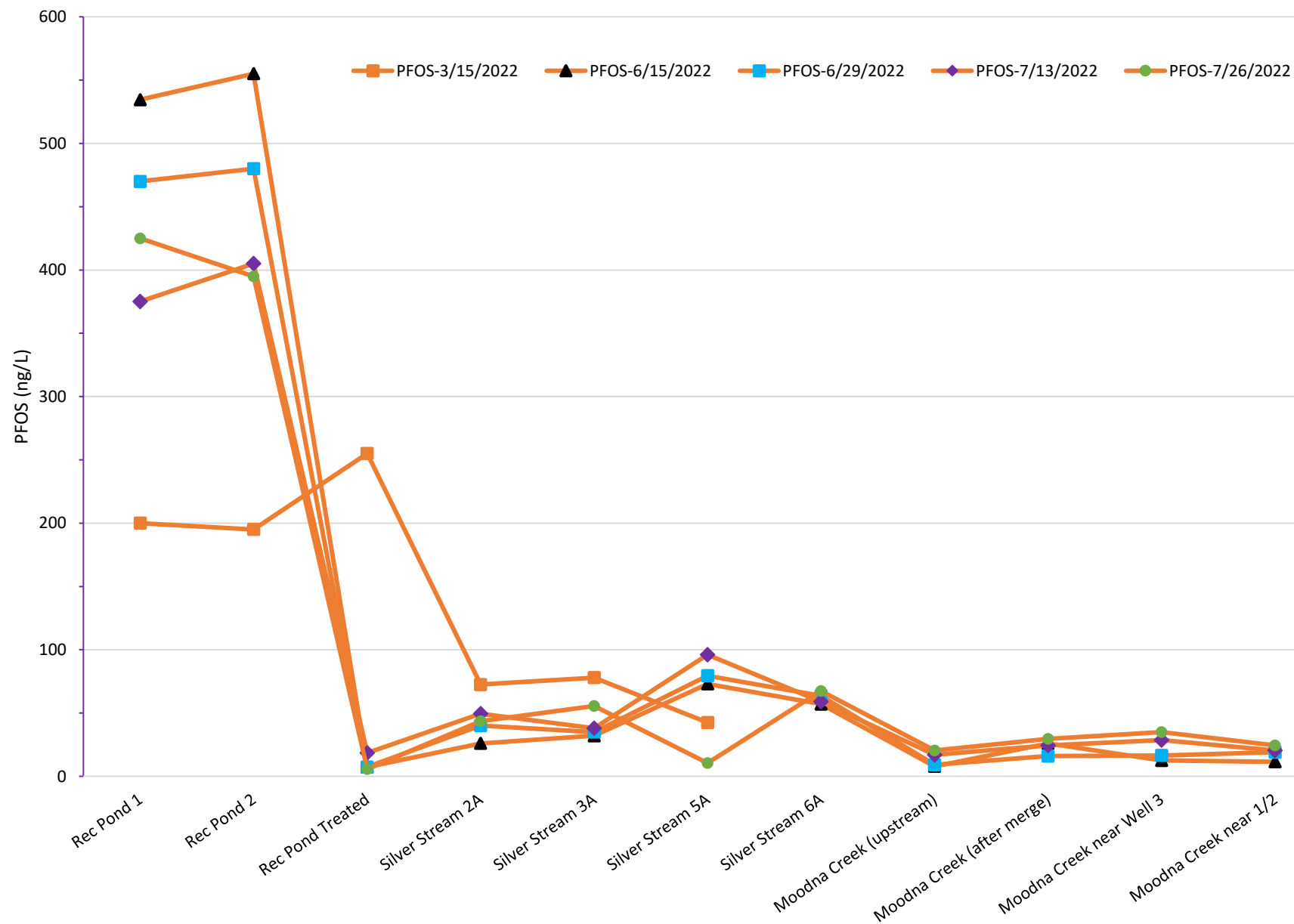
Parameter	Location	SS - 1A						SS - 2A					SS - 3A						SS - 4A	SS - 5A				SS - 6A						
	Sampler	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	
	Date	3/15/2022	6/15/2022	6/29/2022	7/13/2022	7/13/2022	7/26/2022	3/15/2022	6/15/2022	6/29/2022	7/13/2022	7/26/2022	3/15/2022	6/15/2022	6/15/2022	6/29/2022	7/12/2022	7/13/2022	7/26/2022	3/15/2022	3/15/2022	6/15/2022	6/28/2022	7/13/2022	7/26/2022	6/14/2022	6/28/2022	7/12/2022	7/26/2022	
Depth	S/6"	S/6"	S/6"	6"/6"	S/S	S/6"	S/6"	S/6"	S/6"	S/6"	S/6"	S/6"	S/6"	SW*	6"	S/6"	S	S/6"	S/6"	S/6"	S/6"	S/6"	S/6"	S/6"	S/6"	S/6"	S/6"	S/6"	S/6"	
Perfluorobutanoic acid (PFBA)		4.3 / 4.2	6.6 / 8.1	12 / 13	12 / 9.4	12 / 11	11 / 12	11 / 11	11 / 12	20 / 23	28 / 24	15 / 14	13 / 13	13 / 12	12	20 / 19	6.2	25 / 22	15 / 14	12 / 12	11 / 11	13 / 13	19 / 16	26 / 26	27 / 27	12 / 12	15 / 14	15 / 16	16 / 15	
Perfluoropentanoic acid (PFPeA)		7.4 / 7.3	14 / 15	26 / 27	26 / 26	32 / 28	35 / 37	30 / 30	21 / 22	38 / 45	44 / 42	32 / 32	30 / 40	23 / 22	21	38 / 37	11.0	47 / 44	30 / 30	28 / 28	24 / 24	30 / 30	40 / 38	58 / 55	64 / 62	27 / 26	32 / 31	31 / 33	36 / 35	
Perfluorohexanoic acid (PFHxA)		5.8 / 5.7	9.1 / 11	16 / 17	17 / 17	18 / 20	23 / 24	24 / 24	13 / 14	23 / 27	25 / 24	18 / 18	23 / 23	15 / 14	13	23 / 22	6.8	29 / 25	16 / 16	21 / 22	20 / 20	21 / 20	29 / 27	39 / 37	42 / 41	18 / 18	22 / 21	21 / 22	23 / 23	
Perfluoroheptanoic acid (PFHpA)		2.8 / 3.0	4.1 / 5.6	7.3 / 7.3	7.5 / 7.2	8.0 / 8.7	9.4 / 9.9	13 / 12	6.4 / 6.4	11 / 13	15 / 15	11 / 10	12 / 11	8.0 / 6.2	6	12 / 11	5.1	17 / 14	9.6 / 9.1	12 / 12	11 / 10	11 / 11	16 / 15	24 / 23	26 / 25	11 / 10	14 / 13	15 / 16	17 / 16	
Perfluorooctanoic acid (PFOA)		5.2 / 4.6	5.9 / 7.2	9.5 / 9.5	7.5 / 7.9	9.1 / 8.3	8.1 / 8.2	15 / 14	9 / 9.1	14 / 17	17 / 17	13 / 12	14 / 14	11.0 / 10.0	9.1	15 / 14	10.0	19 / 15	12 / 13	13 / 12	11 / 10	15 / 15	22 / 20	25 / 24	27 / 26	14 / 15	19 / 19	17 / 18	19 / 18	
Perfluorononanoic acid (PFNA)								3.2 / 3.8	ND / 1.8	2.2 / 2.5	3.7 / 3.6	2.2 / 2.2	3.6 / 3.5	1.9 / 2.3	2.1	3 / 2.7	1.8	3.6 / 2.9	2.8 / 2.7	4.7 / 2.8	5.6 / 4.8	7.0 / 6.9	6.7 / 6	4.6 / 4	4.4 / 4.5	4.7 / 4.4	4.2 / 5			
Perfluorodecanoic acid (PFDA)								2.3 / 2.1					2.6 / 2.7					3.6 / 1.8			3.2 / 3.1	3.0 / 2.9	4.2 / 4.1	3.5 / 3.5	1.8 / 1.9	2.3 / 2.1	2.4 / 2.3	2.3 / 1.9		
Perfluoroundecanoic acid (PFUnA)																														
Perfluorododecanoic acid (PFDoA)																														
Perfluorobutanesulfonic acid (PFBS)		2.5 / 2.5	3.6 / 4.6	19 / 20	6.0 / 5.9	6.2 / 6.8	6.9 / 7.5	5.8 / 5.4	2.8 / 2.9	4.9 / 5.4	4.9 / 4.5	5.9 / 5.7	5.7 / 5.0	3.4 / 3.1	2.9	4.9 / 4.5	5.4	5.8 / 5.1	7.4 / 7.1	4.9 / 5.5	4.1 / 4.0	3.8 / 3.9	6.3 / 5.2	7.9 / 7.1	9.2 / 8.9	4.2 / 4	4.8 / 4.6	5.6 / 6.1	7.1 / 6.4	
Perfluorohexanesulfonic acid (PFHxS)		8.0 / 7.8	13 / 16	20 / 20	23 / 22	23 / 25	29 / 29	36 / 34	21 / 21	31 / 37	30 / 29	33 / 32	36 / 34	23 / 22	19	33 / 30	3.8	37 / 32	28 / 26	32 / 34	23 / 23	25 / 25	36 / 33	45 / 42	50 / 49	23 / 20	30 / 29	28 / 30	33 / 33	
Perfluoroheptanesulfonic acid (PFHpS)							ND / 1.7	ND / 1.8				ND / 2.1							2.2 / ND			1.8 / ND	2.7 / 3.3	ND / 2.8						
Perfluorooctanesulfonic acid (PFOS)		17 / 8.9	15 / 17	25 / 21	28 / 27	29 / 32	28 / 29	75 / 70	27 / 25	36 / 44	51 / 48	41 / 46	80 / 76	37 / 38	32	35 / 35	11.0	58 / 45	54 / 57	110 / 57	44 / 41	73 / 73	83 / 76	98 / 94	100 / 110	52 / 62	65 / 62	59 / 59	67 / 68	
Perfluoropentanesulfonic acid (PFPeS)				1.8 / ND	2.1 / 2.3	2.6 / 2.2	3.0 / 3.2	3.8 / 3.7	1.7 / 1.7	2.6 / 3.1	2.2 / 2.4	2.8 / 2.7	3.5 / 3.3	1.9		2.6 / 2.4		3.4 / 2.8	2.1 / 2	3.2 / 3.2	2.4 / 2.5	2.3 / 2.4	3.3 / 3.2	4.2 / 4.1	4.5 / 4.7	2.2 / 2.1	2.8 / 2.7	3.1 / 3.3	3.1 / 3	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F53B Major)																														
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F53B Minor)																														
4:2 FTS																														
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)		2.8 / 2.3		2.2 / 2.1		1.9 / ND	3.1 / 3.2	15 / 16		1.8 / 1.9			14 / 14					2.0 / ND	14 / 14	4.2 / 4.7	4.1 / 4.1	5.3 / 5.4	8.7 / 7.6	9.8 / 9.9	2 / ND					
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)								3.4 / 3.5					3.7 / 3.8						5.9 / 2.7		2.3 / 2	2.3 / 2.2	2.6 / 2.7	3.2 / 3						
4,8-dioxa-3H-perfluorononanoic acid (ADONA)																														
Hexafluoropropylene oxide dimer acid (HFPO-DA)																														
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)																														
Perfluoro-4-oxapentanoic acid (PFMPA)																														
Perfluoro-5-oxahexanoic acid (PFMBA)																														
Nonafluoro-3,6-dioxahепtanoic acid (NFDHA)																														

Parameter	Location	MC - 1A						MC - 2A				MC - 3A				MC - 4A				ML - 1A			ML - 2A			ML - 3A				
	Sampler	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis	Arcadis		
	Date	6/14/2022	6/14/2022	6/28/2022	7/12/2022	7/12/2022	7/26/2022	6/14/2022	6/28/2022	7/12/2022	7/26/2022	6/14/2022	6/28/2022	7/12/2022	7/12/2022	7/26/2022	6/14/2022	6/28/2022	7/13/2022	7/13/2022	7/26/2022	6/28/2022	7/12/2022	7/26/2022	6/28/2022	7/12/2022	7/26/2022	6/28/2022	7/12/2022	7/26/2022
	Depth	S/6"	Middle	S/6"	6"/6"	S	S/6"	S/6"	S/6"	S/6"	S/6"	S/6"	S/6"	S/6"	S/6"	S	S/6"	S/6"	S/6"	6"	S/S	S/6"	Middle	Middle	Middle	S/6"	S/6"	S/6"	S/6"	6"
Perfluorobutanoic acid (PFBA)		3.2/3.2	7.0	3.5/3.0	5.1/5.1	4.8	4.8/5.1	5.8/5.5	5.1/5.0	5.6/5.7	7.9/6.7	5.3/5.2	5.9/5.6	5.9/6.5	6.4	6.8/7.4	5.5/5.5	6.0/5.4	7.5/7.6	7.5/7.1	8.6/8.9	4.3	3.1	3.4	4.5/4.4	4.9/4.6	5.7/5.5	4.4/5.7	6.7	6.4/6.2
Perfluoropentanoic acid (PFPeA)		4.8/4.8	3.8	5.6/5.6	9.4/8.4	9.1	12/13	11/11	9.2/9.1	11/12	20/18	3.9/6.9	9.3/8.5	11/13	11	17/17	6.7/9.2	9.4/9.5	14	14/13	19/20	5.3	5.9	4.4	9.2/8.4	10/12	10/9.9	7.8/9.6	11.0	11/12
Perfluorohexanoic acid (PFHxA)		3.2/3.3	3.1	3.8/3.9	7.6/6.9	7.4	8.2/8.8	7.1/7	6.5/6.5	8/9	12/12	4/4.3	6.3/5.4	8.7/8.8	8.7	11/11	4.4/4.2	6.6/6	9.7	9.9/8.8	12/13	4.0	4.3	4.0	6.1/6.0	7.2/6.8	8.1/8.2	5.3/6.1	7.2	8.3/8.8
Perfluoroheptanoic acid (PFHpA)		1.8/1.8	2.4	2.1/1.9	4.1/3.5	4.0	3.3/4.2	4.5/4.1	3.8/3.7	4.7/5.3	6.7/6.3	2.1/2.2	3.9/3.6	5.2/5.6	4.7	6.5/6.9	2.3/2	4.2/4	5.7	5.9/5.5	7.3/7.3	3.5	3.7	3.3	4.6/4.8	5.4/5.1	5.4/5.9	4.0/4.8	5.4	5.4/5.7
Perfluorooctanoic acid (PFOA)		4.3/4.6	5.9	5.1/4.7	6.7/6.0	6.3	6.5/7.4	8.5/7.3	6.5/6.4	7.1/7.8	9.9/9.7	4.8/4.2	7.3/7.2	7.3/8.7	8.1	8.5/9.9	4.7/5.1	7.5/7.3	7.9	7.6/6.6	9.2/9.1	6.8	7.9	7.0	9.6/9.6	12/11	12/12	7.9/8.8	10.0	12/11
Perfluorononanoic acid (PFNA)								2.1/ND			1.8/1.9			ND/1.8	2	ND/2.6					1.8/1.8								1.9	2.1/1.8
Perfluorodecanoic acid (PFDA)																														
Perfluoroundecanoic acid (PFUnA)																														
Perfluorododecanoic acid (PFDoA)																														
Perfluorobutanesulfonic acid (PFBS)		1.8/1.8	3.5	2.5/2.3	3.8/3.1	3.6	3.4/3.4	2.4/2.4	2.6/2.6	3.5/3.7	5.2/5.1	2.1/2.2	6.1/5.9	3.8/3.9	3.9	3.9/4.1	2.1/2.5	5.4/5.8	4	4.6/3.8	4.0/4.3	6.5	4.4	4.7	8.1/7.3	6.5/6.2	7.1/7.2	3.9/7.7	5.5	5.6/5.9
Perfluorohexanesulfonic acid (PFHxS)		2.4/2.6	3.9	2.6/2.8	6.2/4.9	5.9	5.1/4.7	7.9/7.4	7.2/6.7	7.6/8.2	12/11	3.7/3.9	5.7/5.5	8.6/9.5	9.3	10/10	4.1/3.6	6.0/5.6	9.3	9.5/8.0	10/10	3.5	4.2	4.2	5.4/4.8	4.8/4.7	5.7/5.9	2.4/2.9	4.0	4.2/4.5
Perfluoroheptanesulfonic acid (PFHpS)																														
Perfluorooctanesulfonic acid (PFOS)		6.7/7.2	9.8	9.2/9.1	19/16	16.0	19/22	31/21	16/16	25/24	28/31	14/11	17/16	22/25	39	21/49	11/12	20/18	21	21/19	25/24	11.0	12.0	12.0	31/15	16/15	16/16	9.6/14	14.0	16/13
Perfluoropentanesulfonic acid (PFPeS)																														
9-Chlorohexadecafluoro-3-oxanonan-1-sulfonic acid (F53B Major)																														
11-Chloroeicosafluoro-3-oxaundecan-1-sulfonic acid (F53B Minor)																														
4:2 FTS																														
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)				2.3/2.2	6.8/5.3	6	5.4/6.3																							
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)									1.9/1.8	4.7/5.3	3.2/4						2.0/1.8	3.0/3.2	3.3	2.2/2.4							2.6/41			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)																														
Hexafluoropropylene oxide dimer acid (HFPO-DA)																														
Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA)																														
Perfluoro-4-oxapentanoic acid (PFMPA)																														
Perfluoro-5-oxahexanoic acid (PFMBA)																														
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)																														

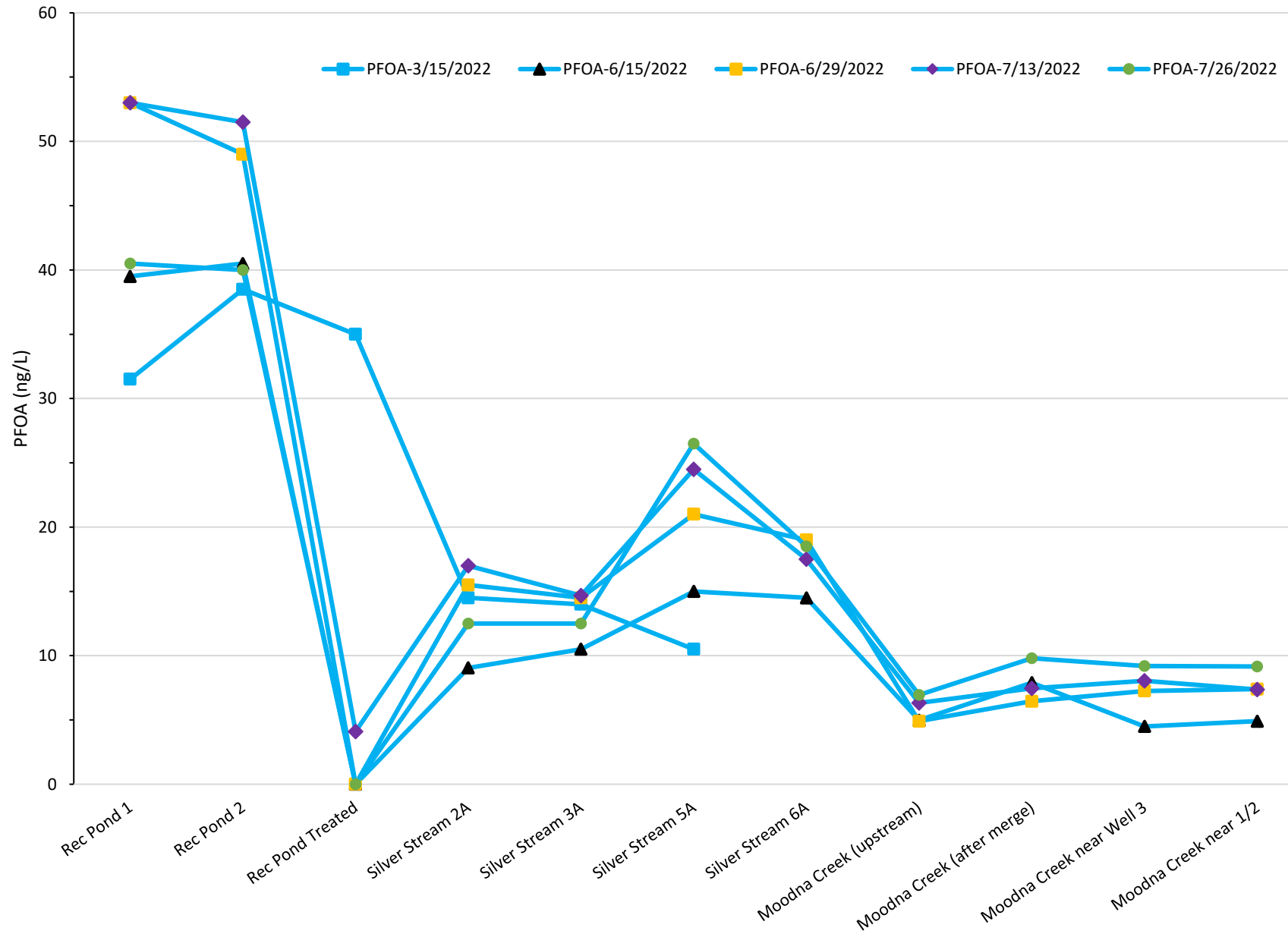
Dates Sampled	Rainfall Total - Preceding 7 days (in.)
8/30/2017	0.64
8/1/2021	0.21
3/15/2022	0.73
6/14/2022 - 6/15/2022	1.36
6/28/2022 - 6/29/2022	0.12
7/12/2022 - 7/13/2022	0.04
7/26/2022 - 7/27/2022	0.95

5/6" samples were collected at the surface interface and 6" below the surface.
Qualifiers not included. Refer to attached laboratory report for details.
Blank cells represent non-detect results.
All results in ng/L
Lab reran analysis where two results are presented for the same location & date
June 28-29, 2022 samples were collected when Washington Lake Drawdown treatment system was inactive
* Compound not included in analysis method used

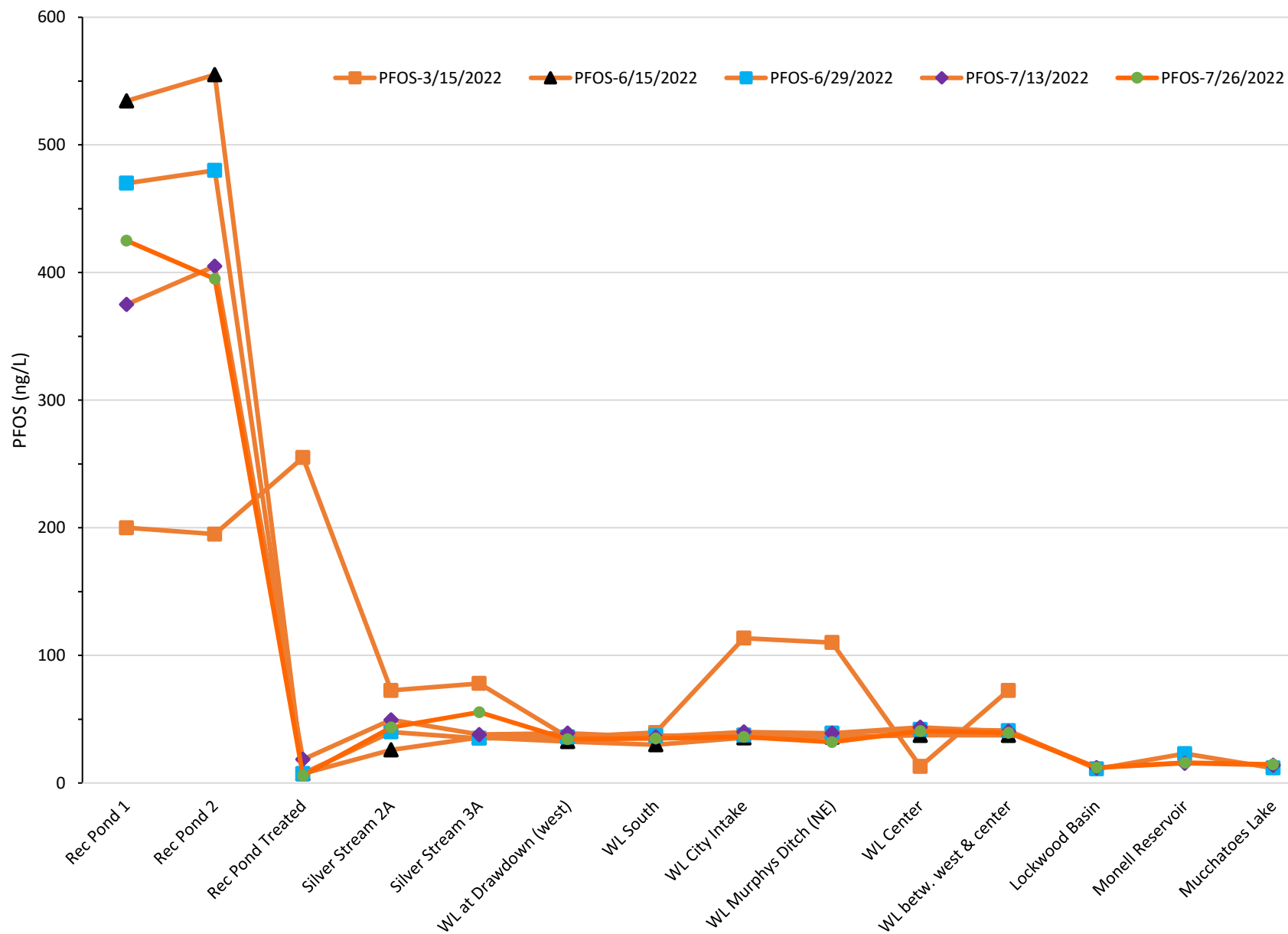
PFOS - Recreation Pond - Silver Stream - Moodna Creek



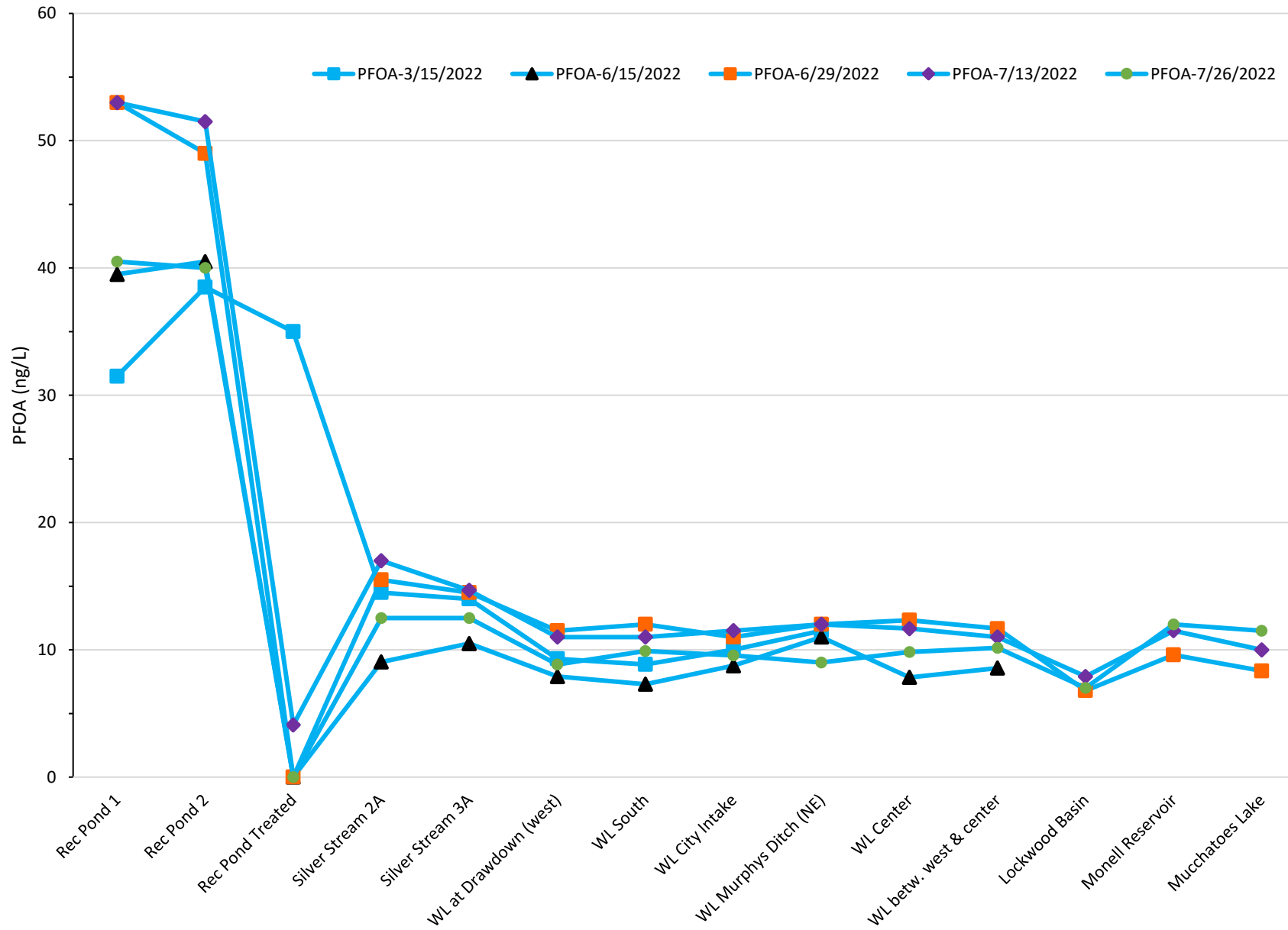
PFOA - Recreation Pond - Silver Stream - Moodna Creek



PFOS - Recreation Pond - Washington Lake - Lockwood Basin and Downstream



PFOA - Recreation Pond - Washington Lake - Lockwood Basin and Downstream



April 4, 2022

David Chiusano
NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065

Project Location: SANG
Client Job Number:
Project Number: 30053849
Laboratory Work Order Number: 22C1137

Enclosed are results of analyses for samples as received by the laboratory on March 17, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mike Buttrick
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	6
22C1137-01	6
22C1137-02	7
22C1137-03	8
22C1137-04	9
22C1137-05	10
22C1137-06	11
22C1137-07	12
22C1137-08	13
22C1137-09	14
22C1137-10	15
22C1137-11	16
22C1137-12	17
22C1137-13	18
22C1137-14	19
22C1137-15	20
22C1137-16	21
22C1137-17	22
22C1137-18	23
22C1137-19	24
22C1137-20	25
22C1137-21	26
22C1137-22	27

Table of Contents (continued)

22C1137-23	28
22C1137-24	29
Sample Preparation Information	30
QC Data	31
Semivolatile Organic Compounds by - LC/MS-MS	31
B303553	31
B303554	32
B304373	33
Flag/Qualifier Summary	35
Certifications	36
Chain of Custody/Sample Receipt	37

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

NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: David Chiusano

REPORT DATE: 4/4/2022

PURCHASE ORDER NUMBER: 141589

PROJECT NUMBER: 30053849

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22C1137

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: SANG

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
LW-1A-31522 (6)	22C1137-01	Drinking Water		EPA 533	
LW-1A-31522 (SW)	22C1137-02	Drinking Water		EPA 533	
LW-2A-31522 (6)	22C1137-03	Drinking Water		EPA 533	
LW-2A-31522 (SW)	22C1137-04	Drinking Water		EPA 533	
LW-3A-31522 (6)	22C1137-05	Drinking Water		EPA 533	
LW-3A-31522 (SW)	22C1137-06	Drinking Water		EPA 533	
LW-4A-31522 (6)	22C1137-07	Drinking Water		EPA 533	
LW-4A-31522 (SW)	22C1137-08	Drinking Water		EPA 533	
SS-5A-31522 (6)	22C1137-09	Drinking Water		EPA 533	
SS-5A-31522 (SW)	22C1137-10	Drinking Water		EPA 533	
SS-4A-31522 (6)	22C1137-11	Drinking Water		EPA 533	
SS-4A-31522 (SW)	22C1137-12	Drinking Water		EPA 533	
SS-3A-31522 (6)	22C1137-13	Drinking Water		EPA 533	
SS-3A-31522 (SW)	22C1137-14	Drinking Water		EPA 533	
SS-2A-31522 (6)	22C1137-15	Drinking Water		EPA 533	
SS-2A-31522 (SW)	22C1137-16	Drinking Water		EPA 533	
SS-1A-31522 (6)	22C1137-17	Drinking Water		EPA 533	
SS-1A-31522 (SW)	22C1137-18	Drinking Water		EPA 533	
RP-1A-31522 (6)	22C1137-19	Drinking Water		EPA 533	
RP-1A-31522 (SW)	22C1137-20	Drinking Water		EPA 533	
RP-2A-31522 (6)	22C1137-21	Drinking Water		EPA 533	
RP-2A-31522 (SW)	22C1137-22	Drinking Water		EPA 533	
RPT-1A-31522 (6)	22C1137-23	Drinking Water		EPA 533	
RPT-1A-31522 (SW)	22C1137-24	Drinking Water		EPA 533	

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

CASE NARRATIVE SUMMARY

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

EPA 533**Qualifications:**

PF-20

Sample extracted at a dilution. Elevated reporting limits due to adjusted sample volume during preparation.

Analyte & Samples(s) Qualified:

22C1137-21RE1[RP-2A-31522 (6)], 22C1137-22RE1[RP-2A-31522 (SW)], 22C1137-24RE1[RPT-1A-31522 (SW)]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace 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.



Lisa A. Worthington
Technical Representative

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: LW-1A-31522 (6)

Sampled: 3/15/2022 10:30

Sample ID: 22C1137-01

Sample Matrix: Drinking Water

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)	3.2	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	BLM
Perfluorohexanesulfonic acid (PFHxS)	16	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	BLM
Perfluoroheptanoic acid (PFHpA)	9.0	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	BLM
Perfluorooctanoic acid (PFOA)	9.6	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	BLM
Perfluorooctanesulfonic acid (PFOS)	38	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	BLM
Perfluorononanoic acid (PFNA)	2.7	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	87.5	50-200	3/24/22 19:26
M3PFHxS	85.1	50-200	3/24/22 19:26
M4PFHpA	85.6	50-200	3/24/22 19:26
M8PFOA	89.2	50-200	3/24/22 19:26
M8PFOS	90.3	50-200	3/24/22 19:26
M9PFNA	84.6	50-200	3/24/22 19:26

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: LW-1A-31522 (SW)

Sampled: 3/15/2022 10:32

Sample ID: 22C1137-02

Sample Matrix: Drinking Water

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)	3.2	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	BLM
Perfluorohexanesulfonic acid (PFHxS)	15	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	BLM
Perfluoroheptanoic acid (PFHpA)	9.2	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	BLM
Perfluorooctanoic acid (PFOA)	9.0	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	BLM
Perfluorooctanesulfonic acid (PFOS)	34	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	BLM
Perfluorononanoic acid (PFNA)	2.3	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	79.5	50-200	3/24/22 19:34
M3PFHxS	80.6	50-200	3/24/22 19:34
M4PFHpA	88.8	50-200	3/24/22 19:34
M8PFOA	94.6	50-200	3/24/22 19:34
M8PFOS	88.5	50-200	3/24/22 19:34
M9PFNA	84.9	50-200	3/24/22 19:34

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: LW-2A-31522 (6)

Sampled: 3/15/2022 11:05

Sample ID: 22C1137-03

Sample Matrix: Drinking Water

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)	3.0	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	BLM
Perfluorohexanesulfonic acid (PFHxS)	14	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	BLM
Perfluoroheptanoic acid (PFHpA)	8.6	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	BLM
Perfluorooctanoic acid (PFOA)	9.3	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	BLM
Perfluorooctanesulfonic acid (PFOS)	31	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	BLM
Perfluorononanoic acid (PFNA)	2.4	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	92.0	50-200	3/24/22 19:41
M3PFHxS	90.4	50-200	3/24/22 19:41
M4PFHpA	91.5	50-200	3/24/22 19:41
M8PFOA	91.3	50-200	3/24/22 19:41
M8PFOS	93.0	50-200	3/24/22 19:41
M9PFNA	95.2	50-200	3/24/22 19:41

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: LW-2A-31522 (SW)

Sampled: 3/15/2022 11:07

Sample ID: 22C1137-04

Sample Matrix: Drinking Water

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)	2.7	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	BLM
Perfluorohexanesulfonic acid (PFHxS)	13	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	BLM
Perfluoroheptanoic acid (PFHpA)	7.9	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	BLM
Perfluorooctanoic acid (PFOA)	8.4	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	BLM
Perfluorooctanesulfonic acid (PFOS)	48	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	BLM
Perfluorononanoic acid (PFNA)	2.8	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	88.9	50-200	3/24/22 19:48
M3PFHxS	84.4	50-200	3/24/22 19:48
M4PFHpA	88.2	50-200	3/24/22 19:48
M8PFOA	92.0	50-200	3/24/22 19:48
M8PFOS	86.1	50-200	3/24/22 19:48
M9PFNA	88.7	50-200	3/24/22 19:48

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: LW-3A-31522 (6)

Sampled: 3/15/2022 12:10

Sample ID: 22C1137-05

Sample Matrix: Drinking Water

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)	3.2	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	BLM
Perfluorohexanesulfonic acid (PFHxS)	15	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	BLM
Perfluoroheptanoic acid (PFHpA)	9.5	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	BLM
Perfluorooctanoic acid (PFOA)	10	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	BLM
Perfluorooctanesulfonic acid (PFOS)	87	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	BLM
Perfluorononanoic acid (PFNA)	4.9	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	93.0	50-200	3/24/22 19:55
M3PFHxS	93.9	50-200	3/24/22 19:55
M4PFHpA	91.9	50-200	3/24/22 19:55
M8PFOA	98.0	50-200	3/24/22 19:55
M8PFOS	90.0	50-200	3/24/22 19:55
M9PFNA	90.5	50-200	3/24/22 19:55

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: LW-3A-31522 (SW)

Sampled: 3/15/2022 12:12

Sample ID: 22C1137-06

Sample Matrix: Drinking Water

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)	3.1	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	BLM
Perfluorohexanesulfonic acid (PFHxS)	17	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	BLM
Perfluoroheptanoic acid (PFHpA)	9.3	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	BLM
Perfluorooctanoic acid (PFOA)	10	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	BLM
Perfluorooctanesulfonic acid (PFOS)	140	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	BLM
Perfluorononanoic acid (PFNA)	5.5	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	94.2	50-200	3/24/22 20:02
M3PFHxS	89.7	50-200	3/24/22 20:02
M4PFHpA	94.0	50-200	3/24/22 20:02
M8PFOA	93.6	50-200	3/24/22 20:02
M8PFOS	86.8	50-200	3/24/22 20:02
M9PFNA	89.3	50-200	3/24/22 20:02

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: LW-4A-31522 (6)

Sampled: 3/15/2022 11:45

Sample ID: 22C1137-07

Sample Matrix: Drinking Water

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)	3.4	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	BLM
Perfluorohexanesulfonic acid (PFHxS)	16	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	BLM
Perfluoroheptanoic acid (PFHpA)	9.7	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	BLM
Perfluorooctanoic acid (PFOA)	12	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	BLM
Perfluorooctanesulfonic acid (PFOS)	90	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	BLM
Perfluorononanoic acid (PFNA)	4.0	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	94.8	50-200	3/24/22 20:10
M3PFHxS	95.2	50-200	3/24/22 20:10
M4PFHpA	85.4	50-200	3/24/22 20:10
M8PFOA	83.4	50-200	3/24/22 20:10
M8PFOS	90.1	50-200	3/24/22 20:10
M9PFNA	83.1	50-200	3/24/22 20:10

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: LW-4A-31522 (SW)

Sampled: 3/15/2022 11:47

Sample ID: 22C1137-08

Sample Matrix: Drinking Water

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)	3.2	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	BLM
Perfluorohexanesulfonic acid (PFHxS)	16	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	BLM
Perfluoroheptanoic acid (PFHpA)	9.7	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	BLM
Perfluorooctanoic acid (PFOA)	11	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	BLM
Perfluorooctanesulfonic acid (PFOS)	130	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	BLM
Perfluorononanoic acid (PFNA)	4.2	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	95.9	50-200	3/24/22 20:17
M3PFHxS	95.3	50-200	3/24/22 20:17
M4PFHpA	96.1	50-200	3/24/22 20:17
M8PFOA	98.1	50-200	3/24/22 20:17
M8PFOS	94.4	50-200	3/24/22 20:17
M9PFNA	94.3	50-200	3/24/22 20:17

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: SS-5A-31522 (6)

Sampled: 3/15/2022 13:00

Sample ID: 22C1137-09

Sample Matrix: Drinking Water

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)	4.0	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	BLM
Perfluorohexanesulfonic acid (PFHxS)	23	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	BLM
Perfluoroheptanoic acid (PFHpA)	10	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	BLM
Perfluorooctanoic acid (PFOA)	10	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	BLM
Perfluorooctanesulfonic acid (PFOS)	41	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	BLM
Perfluorononanoic acid (PFNA)	3.0	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	82.1	50-200	3/24/22 20:24
M3PFHxS	81.4	50-200	3/24/22 20:24
M4PFHpA	79.9	50-200	3/24/22 20:24
M8PFOA	89.1	50-200	3/24/22 20:24
M8PFOS	82.0	50-200	3/24/22 20:24
M9PFNA	79.3	50-200	3/24/22 20:24

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: SS-5A-31522 (SW)

Sampled: 3/15/2022 13:02

Sample ID: 22C1137-10

Sample Matrix: Drinking Water

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)	4.1	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	BLM
Perfluorohexanesulfonic acid (PFHxS)	23	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	BLM
Perfluoroheptanoic acid (PFHpA)	11	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	BLM
Perfluorooctanoic acid (PFOA)	11	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	BLM
Perfluorooctanesulfonic acid (PFOS)	44	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	BLM
Perfluorononanoic acid (PFNA)	2.8	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	96.1	50-200	3/24/22 20:31
M3PFHxS	95.1	50-200	3/24/22 20:31
M4PFHpA	93.1	50-200	3/24/22 20:31
M8PFOA	98.2	50-200	3/24/22 20:31
M8PFOS	97.3	50-200	3/24/22 20:31
M9PFNA	99.1	50-200	3/24/22 20:31

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: SS-4A-31522 (6)

Sampled: 3/15/2022 13:20

Sample ID: 22C1137-11

Sample Matrix: Drinking Water

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)	5.5	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	BLM
Perfluorohexanesulfonic acid (PFHxS)	34	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	BLM
Perfluoroheptanoic acid (PFHpA)	12	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	BLM
Perfluorooctanoic acid (PFOA)	12	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	BLM
Perfluorooctanesulfonic acid (PFOS)	57	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	BLM
Perfluorononanoic acid (PFNA)	2.8	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	89.1	50-200	3/24/22 20:53
M3PFHxS	86.1	50-200	3/24/22 20:53
M4PFHpA	92.9	50-200	3/24/22 20:53
M8PFOA	96.6	50-200	3/24/22 20:53
M8PFOS	94.5	50-200	3/24/22 20:53
M9PFNA	97.3	50-200	3/24/22 20:53

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: SS-4A-31522 (SW)

Sampled: 3/15/2022 13:22

Sample ID: 22C1137-12

Sample Matrix: Drinking Water

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)	4.9	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	BLM
Perfluorohexanesulfonic acid (PFHxS)	32	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	BLM
Perfluoroheptanoic acid (PFHpA)	12	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	BLM
Perfluorooctanoic acid (PFOA)	13	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	BLM
Perfluorooctanesulfonic acid (PFOS)	110	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	BLM
Perfluorononanoic acid (PFNA)	4.7	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	94.6	50-200	3/24/22 21:00
M3PFHxS	92.1	50-200	3/24/22 21:00
M4PFHpA	84.2	50-200	3/24/22 21:00
M8PFOA	90.0	50-200	3/24/22 21:00
M8PFOS	92.6	50-200	3/24/22 21:00
M9PFNA	83.3	50-200	3/24/22 21:00

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: SS-3A-31522 (6)

Sampled: 3/15/2022 13:40

Sample ID: 22C1137-13

Sample Matrix: Drinking Water

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)	5.0	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	BLM
Perfluorohexanesulfonic acid (PFHxS)	34	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	BLM
Perfluoroheptanoic acid (PFHpA)	11	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	BLM
Perfluorooctanoic acid (PFOA)	14	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	BLM
Perfluorooctanesulfonic acid (PFOS)	76	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	BLM
Perfluorononanoic acid (PFNA)	3.5	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	94.2	50-200	3/24/22 21:07
M3PFHxS	92.4	50-200	3/24/22 21:07
M4PFHpA	92.1	50-200	3/24/22 21:07
M8PFOA	97.3	50-200	3/24/22 21:07
M8PFOS	93.9	50-200	3/24/22 21:07
M9PFNA	92.2	50-200	3/24/22 21:07

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: SS-3A-31522 (SW)

Sampled: 3/15/2022 13:42

Sample ID: 22C1137-14

Sample Matrix: Drinking Water

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)	5.7	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	BLM
Perfluorohexanesulfonic acid (PFHxS)	36	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	BLM
Perfluoroheptanoic acid (PFHpA)	12	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	BLM
Perfluorooctanoic acid (PFOA)	14	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	BLM
Perfluorooctanesulfonic acid (PFOS)	80	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	BLM
Perfluorononanoic acid (PFNA)	3.6	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	89.9	50-200	3/24/22 21:14
M3PFHxS	88.7	50-200	3/24/22 21:14
M4PFHpA	94.3	50-200	3/24/22 21:14
M8PFOA	96.5	50-200	3/24/22 21:14
M8PFOS	89.0	50-200	3/24/22 21:14
M9PFNA	91.0	50-200	3/24/22 21:14

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: SS-2A-31522 (6)

Sampled: 3/15/2022 14:20

Sample ID: 22C1137-15

Sample Matrix: Drinking Water

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)	5.4	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	BLM
Perfluorohexanesulfonic acid (PFHxS)	34	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	BLM
Perfluoroheptanoic acid (PFHpA)	12	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	BLM
Perfluorooctanoic acid (PFOA)	14	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	BLM
Perfluorooctanesulfonic acid (PFOS)	70	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	BLM
Perfluorononanoic acid (PFNA)	3.8	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	87.4	50-200	3/24/22 21:21
M3PFHxS	85.6	50-200	3/24/22 21:21
M4PFHpA	87.4	50-200	3/24/22 21:21
M8PFOA	87.2	50-200	3/24/22 21:21
M8PFOS	91.6	50-200	3/24/22 21:21
M9PFNA	84.2	50-200	3/24/22 21:21

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: SS-2A-31522 (SW)

Sampled: 3/15/2022 14:22

Sample ID: 22C1137-16

Sample Matrix: Drinking Water

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)	5.8	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	BLM
Perfluorohexanesulfonic acid (PFHxS)	36	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	BLM
Perfluoroheptanoic acid (PFHpA)	13	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	BLM
Perfluorooctanoic acid (PFOA)	15	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	BLM
Perfluorooctanesulfonic acid (PFOS)	75	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	BLM
Perfluorononanoic acid (PFNA)	3.2	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	97.4	50-200	3/24/22 21:29
M3PFHxS	96.3	50-200	3/24/22 21:29
M4PFHpA	97.8	50-200	3/24/22 21:29
M8PFOA	100	50-200	3/24/22 21:29
M8PFOS	100	50-200	3/24/22 21:29
M9PFNA	106	50-200	3/24/22 21:29

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: SS-1A-31522 (6)

Sampled: 3/15/2022 14:40

Sample ID: 22C1137-17

Sample Matrix: Drinking Water

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)	2.5	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	BLM
Perfluorohexanesulfonic acid (PFHxS)	7.8	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	BLM
Perfluoroheptanoic acid (PFHpA)	3.0	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	BLM
Perfluorooctanoic acid (PFOA)	4.6	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	BLM
Perfluorooctanesulfonic acid (PFOS)	8.9	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	BLM
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	95.3	50-200	3/24/22 21:36
M3PFHxS	96.4	50-200	3/24/22 21:36
M4PFHpA	99.5	50-200	3/24/22 21:36
M8PFOA	100	50-200	3/24/22 21:36
M8PFOS	99.9	50-200	3/24/22 21:36
M9PFNA	97.1	50-200	3/24/22 21:36

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: SS-1A-31522 (SW)

Sampled: 3/15/2022 14:42

Sample ID: 22C1137-18

Sample Matrix: Drinking Water

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)	2.5	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	BLM
Perfluorohexanesulfonic acid (PFHxS)	8.0	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	BLM
Perfluoroheptanoic acid (PFHpA)	2.8	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	BLM
Perfluorooctanoic acid (PFOA)	5.2	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	BLM
Perfluorooctanesulfonic acid (PFOS)	17	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	BLM
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	92.5	50-200	3/24/22 21:43
M3PFHxS	89.5	50-200	3/24/22 21:43
M4PFHpA	98.3	50-200	3/24/22 21:43
M8PFOA	99.5	50-200	3/24/22 21:43
M8PFOS	95.3	50-200	3/24/22 21:43
M9PFNA	97.9	50-200	3/24/22 21:43

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: RP-1A-31522 (6)

Sampled: 3/15/2022 10:55

Sample ID: 22C1137-19

Sample Matrix: Drinking Water

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)	13	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	BLM
Perfluorohexanesulfonic acid (PFHxS)	76	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	BLM
Perfluoroheptanoic acid (PFHpA)	25	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	BLM
Perfluorooctanoic acid (PFOA)	30	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	BLM
Perfluorooctanesulfonic acid (PFOS)	190	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	BLM
Perfluorononanoic acid (PFNA)	8.2	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	87.4	50-200	3/24/22 21:50
M3PFHxS	85.8	50-200	3/24/22 21:50
M4PFHpA	87.2	50-200	3/24/22 21:50
M8PFOA	88.8	50-200	3/24/22 21:50
M8PFOS	91.3	50-200	3/24/22 21:50
M9PFNA	82.3	50-200	3/24/22 21:50

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: RP-1A-31522 (SW)

Sampled: 3/15/2022 10:57

Sample ID: 22C1137-20

Sample Matrix: Drinking Water

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)	14	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	BLM
Perfluorohexanesulfonic acid (PFHxS)	88	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	BLM
Perfluoroheptanoic acid (PFHpA)	28	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	BLM
Perfluorooctanoic acid (PFOA)	33	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	BLM
Perfluorooctanesulfonic acid (PFOS)	210	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	BLM
Perfluorononanoic acid (PFNA)	8.6	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	95.0	50-200	3/24/22 21:57
M3PFHxS	93.3	50-200	3/24/22 21:57
M4PFHpA	89.0	50-200	3/24/22 21:57
M8PFOA	87.9	50-200	3/24/22 21:57
M8PFOS	94.9	50-200	3/24/22 21:57
M9PFNA	88.5	50-200	3/24/22 21:57

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: RP-2A-31522 (6)

Sampled: 3/15/2022 11:30

Sample ID: 22C1137-21

Sample Matrix: Drinking Water

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)	13	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
Perfluorohexanesulfonic acid (PFHxS)	99	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
Perfluoroheptanoic acid (PFHpA)	34	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
Perfluorooctanoic acid (PFOA)	39	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
Perfluorooctanesulfonic acid (PFOS)	190	20		ng/L	1		EPA 533	3/31/22	4/1/22 21:28	BLH
Perfluorononanoic acid (PFNA)	11	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	121	50-200	3/28/22 21:24
M3PFHxS	95.1	50-200	3/28/22 21:24
M4PFHpA	98.9	50-200	3/28/22 21:24
M8PFOA	95.6	50-200	3/28/22 21:24
M8PFOS	109	50-200	4/1/22 21:28
M8PFOS	102	50-200	3/28/22 21:24
M9PFNA	82.5	50-200	3/28/22 21:24

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: RP-2A-31522 (SW)

Sampled: 3/15/2022 11:32

Sample ID: 22C1137-22

Sample Matrix: Drinking Water

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)	13	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
Perfluorohexanesulfonic acid (PFHxS)	110	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
Perfluoroheptanoic acid (PFHpA)	37	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
Perfluorooctanoic acid (PFOA)	38	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
Perfluorooctanesulfonic acid (PFOS)	200	20		ng/L	1		EPA 533	3/31/22	4/1/22 21:36	BLH
Perfluorononanoic acid (PFNA)	9.7	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	125	50-200	3/28/22 21:31
M3PFHxS	99.1	50-200	3/28/22 21:31
M4PFHpA	106	50-200	3/28/22 21:31
M8PFOA	100	50-200	3/28/22 21:31
M8PFOS	135	50-200	4/1/22 21:36
M8PFOS	106	50-200	3/28/22 21:31
M9PFNA	94.0	50-200	3/28/22 21:31

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: RPT-1A-31522 (6)

Sampled: 3/15/2022 12:10

Sample ID: 22C1137-23

Sample Matrix: Drinking Water

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)	10	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
Perfluorohexanesulfonic acid (PFHxS)	74	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
Perfluoroheptanoic acid (PFHpA)	29	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
Perfluorooctanoic acid (PFOA)	32	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
Perfluorooctanesulfonic acid (PFOS)	170	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
Perfluorononanoic acid (PFNA)	9.1	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	118	50-200	3/28/22 21:38
M3PFHxS	99.9	50-200	3/28/22 21:38
M4PFHpA	106	50-200	3/28/22 21:38
M8PFOA	101	50-200	3/28/22 21:38
M8PFOS	104	50-200	3/28/22 21:38
M9PFNA	94.7	50-200	3/28/22 21:38

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: RPT-1A-31522 (SW)

Sampled: 3/15/2022 12:12

Sample ID: 22C1137-24

Sample Matrix: Drinking Water

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)	12	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
Perfluorohexanesulfonic acid (PFHxS)	93	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
Perfluoroheptanoic acid (PFHpA)	33	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
Perfluorooctanoic acid (PFOA)	38	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
Perfluorooctanesulfonic acid (PFOS)	340	20		ng/L	1		EPA 533	3/31/22	4/1/22 21:43	BLH
Perfluorononanoic acid (PFNA)	17	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M3PFBS	130	50-200	3/28/22 21:46
M3PFHxS	109	50-200	3/28/22 21:46
M4PFHpA	103	50-200	3/28/22 21:46
M8PFOA	102	50-200	3/28/22 21:46
M8PFOS	117	50-200	4/1/22 21:43
M8PFOS	105	50-200	3/28/22 21:46
M9PFNA	81.7	50-200	3/28/22 21:46

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

Sample Extraction Data

Prep Method: EPA 533-EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22C1137-01 [LW-1A-31522 (6)]	B303553	290	1.00	03/18/22
22C1137-02 [LW-1A-31522 (SW)]	B303553	280	1.00	03/18/22
22C1137-03 [LW-2A-31522 (6)]	B303553	278	1.00	03/18/22
22C1137-04 [LW-2A-31522 (SW)]	B303553	281	1.00	03/18/22
22C1137-05 [LW-3A-31522 (6)]	B303553	286	1.00	03/18/22
22C1137-06 [LW-3A-31522 (SW)]	B303553	293	1.00	03/18/22
22C1137-07 [LW-4A-31522 (6)]	B303553	282	1.00	03/18/22
22C1137-08 [LW-4A-31522 (SW)]	B303553	290	1.00	03/18/22
22C1137-09 [SS-5A-31522 (6)]	B303553	287	1.00	03/18/22
22C1137-10 [SS-5A-31522 (SW)]	B303553	285	1.00	03/18/22
22C1137-11 [SS-4A-31522 (6)]	B303553	284	1.00	03/18/22
22C1137-12 [SS-4A-31522 (SW)]	B303553	286	1.00	03/18/22
22C1137-13 [SS-3A-31522 (6)]	B303553	282	1.00	03/18/22
22C1137-14 [SS-3A-31522 (SW)]	B303553	280	1.00	03/18/22
22C1137-15 [SS-2A-31522 (6)]	B303553	278	1.00	03/18/22
22C1137-16 [SS-2A-31522 (SW)]	B303553	276	1.00	03/18/22
22C1137-17 [SS-1A-31522 (6)]	B303553	299	1.00	03/18/22
22C1137-18 [SS-1A-31522 (SW)]	B303553	279	1.00	03/18/22
22C1137-19 [RP-1A-31522 (6)]	B303553	270	1.00	03/18/22
22C1137-20 [RP-1A-31522 (SW)]	B303553	243	1.00	03/18/22

Prep Method: EPA 533-EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22C1137-21 [RP-2A-31522 (6)]	B303554	263	1.00	03/22/22
22C1137-22 [RP-2A-31522 (SW)]	B303554	277	1.00	03/22/22
22C1137-23 [RPT-1A-31522 (6)]	B303554	265	1.00	03/22/22
22C1137-24 [RPT-1A-31522 (SW)]	B303554	279	1.00	03/22/22

Prep Method: EPA 533-EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22C1137-21RE1 [RP-2A-31522 (6)]	B304373	25.0	1.00	03/31/22
22C1137-22RE1 [RP-2A-31522 (SW)]	B304373	25.0	1.00	03/31/22
22C1137-24RE1 [RPT-1A-31522 (SW)]	B304373	25.0	1.00	03/31/22

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B303553 - EPA 533
Blank (B303553-BLK1)

Prepared: 03/18/22 Analyzed: 03/24/22

Perfluorobutanesulfonic acid (PFBS)	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							
Surrogate: M2-4:2FTS	31.7			ng/L	36.6		86.6	50-200			
Surrogate: M2-8:2FTS	38.3			ng/L	37.5		102	50-200			
Surrogate: MPFBA	37.7			ng/L	39.0		96.6	50-200			
Surrogate: M3HFPO-DA	38.1			ng/L	39.0		97.6	50-200			
Surrogate: M6PFDA	38.3			ng/L	39.0		98.0	50-200			
Surrogate: M3PFBS	34.9			ng/L	36.4		96.0	50-200			
Surrogate: M7PFUnA	38.7			ng/L	39.0		99.2	50-200			
Surrogate: M2-6:2FTS	38.5			ng/L	37.1		104	50-200			
Surrogate: M5PFPeA	37.3			ng/L	39.0		95.6	50-200			
Surrogate: M5PFHxA	36.7			ng/L	39.0		94.1	50-200			
Surrogate: M3PFHxS	36.9			ng/L	37.0		99.8	50-200			
Surrogate: M4PFHpA	38.1			ng/L	39.0		97.7	50-200			
Surrogate: M8PFOA	37.7			ng/L	39.0		96.7	50-200			
Surrogate: M8PFOS	37.5			ng/L	37.4		100	50-200			
Surrogate: M9PFNA	37.5			ng/L	39.0		95.9	50-200			
Surrogate: MPFDoA	35.9			ng/L	39.0		92.0	50-200			

LCS (B303553-BS1)

Prepared: 03/18/22 Analyzed: 03/24/22

Perfluorobutanesulfonic acid (PFBS)	1.62	2.0		ng/L	1.74		93.0	50-150			
Perfluorohexanesulfonic acid (PFHxS)	1.73	2.0		ng/L	1.80		96.4	50-150			
Perfluoroheptanoic acid (PFHpA)	1.73	2.0		ng/L	1.97		87.9	50-150			
Perfluorooctanoic acid (PFOA)	1.84	2.0		ng/L	1.97		93.6	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.67	2.0		ng/L	1.82		92.0	50-150			
Perfluorononanoic acid (PFNA)	2.27	2.0		ng/L	1.97		115	50-150			
Surrogate: M2-4:2FTS	28.4			ng/L	36.9		76.9	50-200			
Surrogate: M2-8:2FTS	34.8			ng/L	37.7		92.1	50-200			
Surrogate: MPFBA	38.2			ng/L	39.3		97.0	50-200			
Surrogate: M3HFPO-DA	33.8			ng/L	39.3		85.8	50-200			
Surrogate: M6PFDA	36.4			ng/L	39.3		92.7	50-200			
Surrogate: M3PFBS	32.8			ng/L	36.6		89.6	50-200			
Surrogate: M7PFUnA	38.1			ng/L	39.3		96.9	50-200			
Surrogate: M2-6:2FTS	34.7			ng/L	37.4		92.9	50-200			
Surrogate: M5PFPeA	37.9			ng/L	39.3		96.4	50-200			
Surrogate: M5PFHxA	36.2			ng/L	39.3		92.1	50-200			
Surrogate: M3PFHxS	33.4			ng/L	37.3		89.7	50-200			
Surrogate: M4PFHpA	36.8			ng/L	39.3		93.5	50-200			
Surrogate: M8PFOA	36.5			ng/L	39.3		92.9	50-200			
Surrogate: M8PFOS	36.7			ng/L	37.7		97.4	50-200			
Surrogate: M9PFNA	36.3			ng/L	39.3		92.4	50-200			
Surrogate: MPFDoA	36.4			ng/L	39.3		92.6	50-200			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B303553 - EPA 533
LCS Dup (B303553-BSD1)

Prepared: 03/18/22 Analyzed: 03/24/22

Perfluorobutanesulfonic acid (PFBS)	1.70	1.9		ng/L	1.71		99.7	50-150	4.96	50	
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.9		ng/L	1.76		103	50-150	5.07	50	
Perfluoroheptanoic acid (PFHpA)	2.02	1.9		ng/L	1.93		105	50-150	15.7	50	
Perfluorooctanoic acid (PFOA)	1.99	1.9		ng/L	1.93		103	50-150	7.58	50	
Perfluorooctanesulfonic acid (PFOS)	1.82	1.9		ng/L	1.78		102	50-150	8.65	50	
Perfluorononanoic acid (PFNA)	2.07	1.9		ng/L	1.93		107	50-150	8.97	50	
Surrogate: M2-4:2FTS	30.0			ng/L	36.1		82.9	50-200			
Surrogate: M2-8:2FTS	36.2			ng/L	37.0		97.8	50-200			
Surrogate: MPFBA	38.1			ng/L	38.5		98.9	50-200			
Surrogate: M3HFPO-DA	38.6			ng/L	38.5		100	50-200			
Surrogate: M6PFDA	38.1			ng/L	38.5		98.9	50-200			
Surrogate: M3PFBS	33.7			ng/L	35.9		93.9	50-200			
Surrogate: M7PFUnA	36.9			ng/L	38.5		95.6	50-200			
Surrogate: M2-6:2FTS	33.9			ng/L	36.6		92.5	50-200			
Surrogate: M5PFPeA	38.0			ng/L	38.5		98.5	50-200			
Surrogate: M5PFHxA	35.4			ng/L	38.5		91.9	50-200			
Surrogate: M3PFHxS	35.1			ng/L	36.5		96.1	50-200			
Surrogate: M4PFHpA	35.0			ng/L	38.5		90.8	50-200			
Surrogate: M8PFOA	37.6			ng/L	38.5		97.7	50-200			
Surrogate: M8PFOS	37.4			ng/L	37.0		101	50-200			
Surrogate: M9PFNA	36.7			ng/L	38.5		95.3	50-200			
Surrogate: MPFDoA	35.4			ng/L	38.5		91.9	50-200			

Batch B303554 - EPA 533
Blank (B303554-BLK1)

Prepared: 03/22/22 Analyzed: 03/28/22

Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L							
Surrogate: M3PFBS	42.3			ng/L	33.1		128	50-200			
Surrogate: M3PFHxS	37.8			ng/L	33.7		112	50-200			
Surrogate: M4PFHpA	43.3			ng/L	35.6		122	50-200			
Surrogate: M8PFOA	39.2			ng/L	35.6		110	50-200			
Surrogate: M8PFOS	39.6			ng/L	34.1		116	50-200			
Surrogate: M9PFNA	36.3			ng/L	35.6		102	50-200			

LCS (B303554-BS1)

Prepared: 03/22/22 Analyzed: 03/28/22

Perfluorobutanesulfonic acid (PFBS)	7.37	1.7		ng/L	7.64		96.5	70-130			
Perfluorohexanesulfonic acid (PFHxS)	7.26	1.7		ng/L	7.89		92.0	70-130			
Perfluoroheptanoic acid (PFHpA)	8.59	1.7		ng/L	8.63		99.6	70-130			
Perfluorooctanoic acid (PFOA)	8.15	1.7		ng/L	8.63		94.5	70-130			
Perfluorooctanesulfonic acid (PFOS)	8.04	1.7		ng/L	7.98		101	70-130			
Perfluorononanoic acid (PFNA)	8.84	1.7		ng/L	8.63		102	70-130			
Surrogate: M3PFBS	39.8			ng/L	32.2		124	50-200			
Surrogate: M3PFHxS	32.6			ng/L	32.7		99.7	50-200			
Surrogate: M4PFHpA	41.8			ng/L	34.5		121	50-200			
Surrogate: M8PFOA	39.6			ng/L	34.5		115	50-200			
Surrogate: M8PFOS	35.7			ng/L	33.1		108	50-200			
Surrogate: M9PFNA	40.1			ng/L	34.5		116	50-200			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B303554 - EPA 533
LCS Dup (B303554-BSD1)

Prepared: 03/22/22 Analyzed: 03/28/22

Perfluorobutanesulfonic acid (PFBS)	7.22	1.8		ng/L	7.80		92.6	70-130	1.96	30	
Perfluorohexanesulfonic acid (PFHxS)	6.89	1.8		ng/L	8.06		85.5	70-130	5.21	30	
Perfluoroheptanoic acid (PFHpA)	8.24	1.8		ng/L	8.81		93.5	70-130	4.17	30	
Perfluorooctanoic acid (PFOA)	8.27	1.8		ng/L	8.81		93.9	70-130	1.47	30	
Perfluorooctanesulfonic acid (PFOS)	7.92	1.8		ng/L	8.15		97.1	70-130	1.57	30	
Perfluorononanoic acid (PFNA)	8.64	1.8		ng/L	8.81		98.1	70-130	2.28	30	
Surrogate: M3PFBS	39.6			ng/L	32.9		121	50-200			
Surrogate: M3PFHxS	34.7			ng/L	33.4		104	50-200			
Surrogate: M4PFHpA	39.8			ng/L	35.2		113	50-200			
Surrogate: M8PFOA	38.5			ng/L	35.2		109	50-200			
Surrogate: M8PFOS	34.7			ng/L	33.8		103	50-200			
Surrogate: M9PFNA	37.8			ng/L	35.2		107	50-200			

Batch B304373 - EPA 533
Blank (B304373-BLK1)

Prepared: 03/31/22 Analyzed: 04/01/22

Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L							
Surrogate: M2-4:2FTS	39.2			ng/L	34.2		115	50-200			
Surrogate: M2-8:2FTS	42.6			ng/L	35.0		122	50-200			
Surrogate: MPFBA	46.6			ng/L	36.5		128	50-200			
Surrogate: M3HFPO-DA	48.4			ng/L	36.5		133	50-200			
Surrogate: M6PFDA	48.1			ng/L	36.5		132	50-200			
Surrogate: M3PFBS	42.6			ng/L	34.0		125	50-200			
Surrogate: M7PFUnA	46.1			ng/L	36.5		126	50-200			
Surrogate: M2-6:2FTS	40.1			ng/L	34.7		115	50-200			
Surrogate: M5PFPeA	46.2			ng/L	36.5		127	50-200			
Surrogate: M5PFHxA	47.8			ng/L	36.5		131	50-200			
Surrogate: M3PFHxS	41.4			ng/L	34.6		120	50-200			
Surrogate: M4PFHpA	46.2			ng/L	36.5		127	50-200			
Surrogate: M8PFOA	44.2			ng/L	36.5		121	50-200			
Surrogate: M8PFOS	43.9			ng/L	35.0		126	50-200			
Surrogate: M9PFNA	43.1			ng/L	36.5		118	50-200			
Surrogate: MPFDoA	43.4			ng/L	36.5		119	50-200			

LCS (B304373-BS1)

Prepared: 03/31/22 Analyzed: 04/01/22

Perfluorobutanesulfonic acid (PFBS)	16.0	1.8		ng/L	15.7		101	70-130			
Perfluorohexanesulfonic acid (PFHxS)	16.3	1.8		ng/L	16.3		100	70-130			
Perfluoroheptanoic acid (PFHpA)	18.2	1.8		ng/L	17.8		102	70-130			
Perfluorooctanoic acid (PFOA)	18.2	1.8		ng/L	17.8		102	70-130			
Perfluorooctanesulfonic acid (PFOS)	18.8	1.8		ng/L	16.5		114	70-130			
Perfluorononanoic acid (PFNA)	20.4	1.8		ng/L	17.8		115	70-130			
Surrogate: M2-4:2FTS	35.3			ng/L	33.4		106	50-200			
Surrogate: M2-8:2FTS	41.7			ng/L	34.2		122	50-200			
Surrogate: MPFBA	39.7			ng/L	35.6		112	50-200			
Surrogate: M3HFPO-DA	41.5			ng/L	35.6		117	50-200			
Surrogate: M6PFDA	42.0			ng/L	35.6		118	50-200			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B304373 - EPA 533
LCS (B304373-BS1)

Prepared: 03/31/22 Analyzed: 04/01/22

Surrogate: M3PFBS	38.8			ng/L	33.2		117	50-200			
Surrogate: M7PFUnA	44.1			ng/L	35.6		124	50-200			
Surrogate: M2-6:2FTS	35.7			ng/L	33.8		106	50-200			
Surrogate: M5PFPeA	40.4			ng/L	35.6		114	50-200			
Surrogate: M5PFHxA	42.7			ng/L	35.6		120	50-200			
Surrogate: M3PFHxS	40.1			ng/L	33.7		119	50-200			
Surrogate: M4PFHpA	40.8			ng/L	35.6		115	50-200			
Surrogate: M8PFOA	40.4			ng/L	35.6		114	50-200			
Surrogate: M8PFOS	38.2			ng/L	34.1		112	50-200			
Surrogate: M9PFNA	36.7			ng/L	35.6		103	50-200			
Surrogate: MPFDoA	40.8			ng/L	35.6		115	50-200			

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
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.
PF-20	Sample extracted at a dilution. Elevated reporting limits due to adjusted sample volume during preparation.

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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 533 in Drinking Water</i>	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME,NJ,NH-P
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME,NJ,NH-P
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME,NJ,NH-P
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,NJ
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,NJ
Perfluorononanoic acid (PFNA)	VT-DW,ME,NJ,NH-P

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

22C1137



Infrastructure - Water Environment - Buildings

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

Page 1 of 2

ID#:

Contact & Company Name:		Telephone:	Preservative:	Ammonium:	Acetate:	
Nick Firman, Arcadis		315.539.6075	Filtered (✓)	N/A		
Address:			# of Containers:	2 per Sample		
110 W Fayette St			Container Information:	3		
City:			PARAMETER ANALYSIS & METHOD			
State:						
Zip:						
E-mail Address:						
Nick.Firman@arcadis.com						
Project Name/Location (City, State):						
NYSDEC P&AS Invest. (Newburgh, NY)						
Project #:						
30053849						
Sampler's Printed Name:						
Nick Firman						
Sample ID	Collection Date	Time	Type (✓)	Comp	Grab	Matrix
LW-1A-31522 (6")	3/15/22	1030	X			SW
LW-1A-31522 (SW)	1032					
LW-2A-31522 (6")	1105					
LW-2A-31522 (SW)	1107					
LW-3A-31522 (6")	1210					
LW-3A-31522 (SW)	1212					
LW-4A-31522 (6")	1145					
LW-4A-31522 (SW)	1147					
SS-5A-31522 (6")	1300					
SS-5A-31522 (SW)	1302					
SS-4A-31522 (6")	1320					
SS-4A-31522 (SW)	1322					
SS-3A-31522 (6")	1340					
SS-3A-31522 (SW)	1342					

Special Instructions/Comments:

Special QA/QC Instructions (✓):

Keys

Preservation Key:

A. H₂SO₄
B. HCL
C. HNO₃
D. NaOH
E. None
F. Other
G. Other
H. Other
I. Tissue

Container Information Key:

1. 40 ml Vial
2. 110 ml Bottle
3. 250 ml Plastic
4. 500 ml Plastic
5. Encore
6. 2 oz Glass
7. 4 oz Glass
8. 8 oz Glass
9. Other
10. Other

Matrix Key:

SE - Sediment
SL - Sludge
A - Air
SO - Soil
W - Water
T - Tissue
NL - NAP/LOI
SW - Sample Wipe
Other

REMARKS

Please analyze Samples
Per EPA Method 533
via NYDEC callout #
141589. Please feel
free to call or email
with any questions at
315.539.6075 or
Nick.Firman@arcadis.com.
Thank you.

Laboratory Information and Receipt		Relinquished By		Received By		Laboratory Received By	
Lab Name:	Pave Analytical	Printed Name:	Nick Firman	Printed Name:	Steve Lavelle	Printed Name:	
Cooler Custody Seal (✓)	☐ Intact ☐ Not Intact	Signature:	[Signature]	Signature:	[Signature]	Signature:	
Sample Receipt		Firm:	Arcadis	Firm/Counter:	Pace	Firm:	
Condition/Cooler Temp:		Date/Time:	3/16/22 1100	Date/Time:	3/17/22 928	Date/Time:	

20730526 Co/C AR Form 01.12.2007

Distribution:

WHITE - Laboratory returns with results

YELLOW - Lab copy

PINK - Retained by ARCADIS



Infrastructure Water Environment Buildings

ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

Page 2 of 2

Contact & Company Name: <u>See page 1</u>		Telephone:		Preservative Filtered (✓)		<u>See page 1</u>	
Address:		Fax:		# of Containers			
City		State		Zip		Container Information	
Project Name/Location (City, State):		E-mail Address:		PARAMETER ANALYSIS & METHOD			
Project #:		Sampler's Signature:					
Sampler's Printed Name:							
Sample ID	Collection Date	Time	Type (✓) Comp	Grab	Matrix	REMARKS	
SS-2A-31522(6")	3/15/22	1420	X		SW	See page 1	
SS-2A-31522(SW)		1422					
SS-1A-31522(6")		1440					
SS-1A-31522(SW)		1442					
RP-1A-31522(6")		1055					
RP-1A-31522(SW)		1057					
RP-2A-31522(6")		1130					
RP-2A-31522(SW)		1132					
RPT-1A-31522(6")		1210					
RPT-1A-31522(SW)		1212					
Special Instructions/Comments:							
☐ Special QA/QC Instructions(✓):							
Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By	
Lab Name: <u>Pace Analytics</u>	Cooler Custody Seal (✓)	Printed Name: <u>Nick Birman</u>	Printed Name:	Printed Name:	Printed Name:	Laboratory Received By	
☐ Intact ☐ Not Intact		Signature: <u>[Signature]</u>	Signature:	Signature:	Signature:		
Sample Receipt		Firm: <u>Arcadis</u>	Firm/Courier:	Firm:	Firm:		
Condition/Cooler Temp		Date/Time: <u>3/16/22 1100</u>	Date/Time:	Date/Time:	Date/Time:		
Distribution:		WHITE - Laboratory returns with results		YELLOW - Lab copy		PINK - Retained by ARCADIS	



FedEx® Tracking



270925115131



ADD NICKNAME

Delivered
Thursday, March 17, 2022 at 9:28 am

**DELIVERED**

Signed for by: R.RIOS

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

SYRACUSE, NY US

TO

EAST LONGMEADOW, MA US

MANAGE DELIVERY

Travel History

TIME ZONE

Local Scan Time

**Thursday, March 17, 2022**

9:28 AM	EAST LONGMEADOW, MA	Delivered
7:31 AM	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:22 AM	WINDSOR LOCKS, CT	At local FedEx facility
2:11 AM	NEWARK, NJ	Departed FedEx hub

Wednesday, March 16, 2022

11:59 PM	NEWARK, NJ	Arrived at FedEx hub
8:40 PM	NORTH SYRACUSE, NY	Left FedEx origin facility
7:08 PM	NORTH SYRACUSE, NY	Shipment arriving On-Time
6:41 PM	NORTH SYRACUSE, NY	Picked up
9:32 AM		Shipment information sent to FedEx

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 N.Y. Acadia

Received By Q Date 3/17/22 Time 928

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 # 3 Actual Temp -4.1
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? MS Were Samples Tampered with? MS

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 T
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? NA 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	<u>48</u>	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:

April 5, 2022

David Chiusano
NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065

Project Location: SANG
Client Job Number:
Project Number: 30053849
Laboratory Work Order Number: 22C1137

Enclosed are results of analyses for samples as received by the laboratory on March 17, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mike Buttrick
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	7
22C1137-01	7
22C1137-02	8
22C1137-03	9
22C1137-04	10
22C1137-05	11
22C1137-06	12
22C1137-07	13
22C1137-08	14
22C1137-09	15
22C1137-10	16
22C1137-11	17
22C1137-12	18
22C1137-13	19
22C1137-14	20
22C1137-15	21
22C1137-16	22
22C1137-17	23
22C1137-18	24
22C1137-19	25
22C1137-20	26
22C1137-21	27
22C1137-22	28

Table of Contents (continued)

22C1137-23	29
22C1137-24	30
Sample Preparation Information	31
QC Data	32
Semivolatile Organic Compounds by - LC/MS-MS	32
B303553	32
B303554	34
B304373	37
Flag/Qualifier Summary	40
Certifications	41
Chain of Custody/Sample Receipt	42

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

NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065
ATTN: David Chiusano

REPORT DATE: 4/5/2022

PURCHASE ORDER NUMBER: 141589

PROJECT NUMBER: 30053849

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22C1137

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: SANG

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
LW-1A-31522 (6)	22C1137-01	Drinking Water		EPA 533	
LW-1A-31522 (SW)	22C1137-02	Drinking Water		EPA 533	
LW-2A-31522 (6)	22C1137-03	Drinking Water		EPA 533	
LW-2A-31522 (SW)	22C1137-04	Drinking Water		EPA 533	
LW-3A-31522 (6)	22C1137-05	Drinking Water		EPA 533	
LW-3A-31522 (SW)	22C1137-06	Drinking Water		EPA 533	
LW-4A-31522 (6)	22C1137-07	Drinking Water		EPA 533	
LW-4A-31522 (SW)	22C1137-08	Drinking Water		EPA 533	
SS-5A-31522 (6)	22C1137-09	Drinking Water		EPA 533	
SS-5A-31522 (SW)	22C1137-10	Drinking Water		EPA 533	
SS-4A-31522 (6)	22C1137-11	Drinking Water		EPA 533	
SS-4A-31522 (SW)	22C1137-12	Drinking Water		EPA 533	
SS-3A-31522 (6)	22C1137-13	Drinking Water		EPA 533	
SS-3A-31522 (SW)	22C1137-14	Drinking Water		EPA 533	
SS-2A-31522 (6)	22C1137-15	Drinking Water		EPA 533	
SS-2A-31522 (SW)	22C1137-16	Drinking Water		EPA 533	
SS-1A-31522 (6)	22C1137-17	Drinking Water		EPA 533	
SS-1A-31522 (SW)	22C1137-18	Drinking Water		EPA 533	
RP-1A-31522 (6)	22C1137-19	Drinking Water		EPA 533	
RP-1A-31522 (SW)	22C1137-20	Drinking Water		EPA 533	
RP-2A-31522 (6)	22C1137-21	Drinking Water		EPA 533	
RP-2A-31522 (SW)	22C1137-22	Drinking Water		EPA 533	
RPT-1A-31522 (6)	22C1137-23	Drinking Water		EPA 533	
RPT-1A-31522 (SW)	22C1137-24	Drinking Water		EPA 533	

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

CASE NARRATIVE SUMMARY

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

4/5/2022 Revised Report: Client requested full list of compounds to be reported.

EPA 533**Qualifications:**

E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:**Perfluorooctanesulfonic acid (PFO)**

22C1137-19[RP-1A-31522 (6)], 22C1137-20[RP-1A-31522 (SW)]

PF-20

Sample extracted at a dilution. Elevated reporting limits due to adjusted sample volume during preparation.

Analyte & Samples(s) Qualified:

22C1137-21RE1[RP-2A-31522 (6)], 22C1137-22RE1[RP-2A-31522 (SW)], 22C1137-24RE1[RPT-1A-31522 (SW)]

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:**M2-6:2FTS**

S069774-CCV2, S069774-CCV3

M2-8:2FTS

22C1137-22[RP-2A-31522 (SW)], 22C1137-24[RPT-1A-31522 (SW)]

M5PFHxA

S069774-CCV2

MPFDoA

S069774-CCV1, S069774-CCV2

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**6:2 Fluorotelomersulfonic acid (6:2**

S069774-CCV3

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**11Cl-PF3OUdS (F53B Minor)**

S069774-CCV2

The results of analyses reported only relate to samples submitted to Con-Test, a Pace 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.



Lisa A. Worthington
Technical Representative

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: LW-1A-31522 (6)

Sampled: 3/15/2022 10:30

Sample ID: 22C1137-01

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	13	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	ZZZ
Perfluorobutanesulfonic acid (PFBS)	3.2	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	BLM
Perfluoropentanoic acid (PFPeA)	30	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	ZZZ
Perfluorohexanoic acid (PFHxA)	21	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	ZZZ
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	ZZZ
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	ZZZ
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	ZZZ
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	ZZZ
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	ZZZ
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	ZZZ
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	ZZZ
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	ZZZ
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	ZZZ
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	ZZZ
Perfluorohexanesulfonic acid (PFHxS)	16	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	BLM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	ZZZ
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	ZZZ
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.6	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	ZZZ
Perfluoropetanesulfonic acid (PFPeS)	1.8	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	ZZZ
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	ZZZ
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	ZZZ
Perfluoroheptanoic acid (PFHpA)	9.0	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	BLM
Perfluorooctanoic acid (PFOA)	9.6	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	BLM
Perfluorooctanesulfonic acid (PFOS)	38	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	BLM
Perfluorononanoic acid (PFNA)	2.7	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:26	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	82.6	50-200	3/24/22 19:26
M2-8:2FTS	115	50-200	3/24/22 19:26
MPFBA	90.2	50-200	3/24/22 19:26
M3HFPO-DA	78.1	50-200	3/24/22 19:26
M6PFDA	95.8	50-200	3/24/22 19:26
M3PFBS	87.5	50-200	3/24/22 19:26
M7PFUnA	92.2	50-200	3/24/22 19:26
M2-6:2FTS	123	50-200	3/24/22 19:26
M5PFPeA	114	50-200	3/24/22 19:26
M5PFHxA	85.5	50-200	3/24/22 19:26
M3PFHxS	85.1	50-200	3/24/22 19:26
M4PFHpA	85.6	50-200	3/24/22 19:26
M8PFOA	89.2	50-200	3/24/22 19:26
M8PFOS	90.3	50-200	3/24/22 19:26
M9PFNA	84.6	50-200	3/24/22 19:26
MPFDoA	87.2	50-200	3/24/22 19:26

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: LW-1A-31522 (SW)

Sampled: 3/15/2022 10:32

Sample ID: 22C1137-02

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	14	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	ZZZ
Perfluorobutanesulfonic acid (PFBS)	3.2	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	BLM
Perfluoropentanoic acid (PFPeA)	27	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	ZZZ
Perfluorohexanoic acid (PFHxA)	20	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	ZZZ
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	ZZZ
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	ZZZ
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	ZZZ
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	ZZZ
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	ZZZ
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	ZZZ
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	ZZZ
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	ZZZ
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	ZZZ
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	ZZZ
Perfluorohexanesulfonic acid (PFHxS)	15	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	BLM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	ZZZ
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	ZZZ
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	ZZZ
Perfluoropentanesulfonic acid (PFPeS)	1.8	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	ZZZ
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	ZZZ
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	ZZZ
Perfluoroheptanoic acid (PFHpA)	9.2	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	BLM
Perfluorooctanoic acid (PFOA)	9.0	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	BLM
Perfluorooctanesulfonic acid (PFOS)	34	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	BLM
Perfluorononanoic acid (PFNA)	2.3	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:34	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	71.3	50-200	3/24/22 19:34
M2-8:2FTS	97.7	50-200	3/24/22 19:34
MPFBA	91.0	50-200	3/24/22 19:34
M3HFPO-DA	79.7	50-200	3/24/22 19:34
M6PFDA	96.7	50-200	3/24/22 19:34
M3PFBS	79.5	50-200	3/24/22 19:34
M7PFUnA	91.6	50-200	3/24/22 19:34
M2-6:2FTS	108	50-200	3/24/22 19:34
M5PFPeA	112	50-200	3/24/22 19:34
M5PFHxA	88.8	50-200	3/24/22 19:34
M3PFHxS	80.6	50-200	3/24/22 19:34
M4PFHpA	88.8	50-200	3/24/22 19:34
M8PFOA	94.6	50-200	3/24/22 19:34
M8PFOS	88.5	50-200	3/24/22 19:34
M9PFNA	84.9	50-200	3/24/22 19:34
MPFDoA	93.5	50-200	3/24/22 19:34

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: LW-2A-31522 (6)

Sampled: 3/15/2022 11:05

Sample ID: 22C1137-03

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	11	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	ZZZ
Perfluorobutanesulfonic acid (PFBS)	3.0	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	BLM
Perfluoropentanoic acid (PFPeA)	25	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	ZZZ
Perfluorohexanoic acid (PFHxA)	19	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	ZZZ
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	ZZZ
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	ZZZ
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	ZZZ
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	ZZZ
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	ZZZ
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	ZZZ
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	ZZZ
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	ZZZ
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	ZZZ
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	ZZZ
Perfluorohexanesulfonic acid (PFHxS)	14	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	BLM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	ZZZ
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	ZZZ
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	ZZZ
Perfluoropentanesulfonic acid (PFPeS)	1.8	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	ZZZ
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	ZZZ
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	ZZZ
Perfluoroheptanoic acid (PFHpA)	8.6	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	BLM
Perfluorooctanoic acid (PFOA)	9.3	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	BLM
Perfluorooctanesulfonic acid (PFOS)	31	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	BLM
Perfluorononanoic acid (PFNA)	2.4	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:41	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	80.4	50-200	3/24/22 19:41
M2-8:2FTS	108	50-200	3/24/22 19:41
MPFBA	93.0	50-200	3/24/22 19:41
M3HFPO-DA	84.5	50-200	3/24/22 19:41
M6PFDA	103	50-200	3/24/22 19:41
M3PFBS	92.0	50-200	3/24/22 19:41
M7PFUnA	97.2	50-200	3/24/22 19:41
M2-6:2FTS	115	50-200	3/24/22 19:41
M5PFPeA	113	50-200	3/24/22 19:41
M5PFHxA	91.7	50-200	3/24/22 19:41
M3PFHxS	90.4	50-200	3/24/22 19:41
M4PFHpA	91.5	50-200	3/24/22 19:41
M8PFOA	91.3	50-200	3/24/22 19:41
M8PFOS	93.0	50-200	3/24/22 19:41
M9PFNA	95.2	50-200	3/24/22 19:41
MPFDoA	98.3	50-200	3/24/22 19:41

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: LW-2A-31522 (SW)

Sampled: 3/15/2022 11:07

Sample ID: 22C1137-04

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	10	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	ZZZ
Perfluorobutanesulfonic acid (PFBS)	2.7	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	BLM
Perfluoropentanoic acid (PFPeA)	25	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	ZZZ
Perfluorohexanoic acid (PFHxA)	17	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	ZZZ
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	ZZZ
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	ZZZ
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	ZZZ
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	ZZZ
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	ZZZ
Perfluorodecanoic acid (PFDA)	1.9	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	ZZZ
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	ZZZ
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	ZZZ
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	ZZZ
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	ZZZ
Perfluorohexanesulfonic acid (PFHxS)	13	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	BLM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	ZZZ
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	ZZZ
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	ZZZ
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	ZZZ
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	ZZZ
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	ZZZ
Perfluoroheptanoic acid (PFHpA)	7.9	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	BLM
Perfluorooctanoic acid (PFOA)	8.4	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	BLM
Perfluorooctanesulfonic acid (PFOS)	48	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	BLM
Perfluorononanoic acid (PFNA)	2.8	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 19:48	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	74.1	50-200	3/24/22 19:48
M2-8:2FTS	99.2	50-200	3/24/22 19:48
MPFBA	92.0	50-200	3/24/22 19:48
M3HFPO-DA	86.4	50-200	3/24/22 19:48
M6PFDA	94.9	50-200	3/24/22 19:48
M3PFBS	88.9	50-200	3/24/22 19:48
M7PFUnA	92.5	50-200	3/24/22 19:48
M2-6:2FTS	105	50-200	3/24/22 19:48
M5PFPeA	111	50-200	3/24/22 19:48
M5PFHxA	92.3	50-200	3/24/22 19:48
M3PFHxS	84.4	50-200	3/24/22 19:48
M4PFHpA	88.2	50-200	3/24/22 19:48
M8PFOA	92.0	50-200	3/24/22 19:48
M8PFOS	86.1	50-200	3/24/22 19:48
M9PFNA	88.7	50-200	3/24/22 19:48
MPFDoA	83.2	50-200	3/24/22 19:48

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: LW-3A-31522 (6)

Sampled: 3/15/2022 12:10

Sample ID: 22C1137-05

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	12	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	ZZZ
Perfluorobutanesulfonic acid (PFBS)	3.2	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	BLM
Perfluoropentanoic acid (PFPeA)	27	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	ZZZ
Perfluorohexanoic acid (PFHxA)	21	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	ZZZ
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	ZZZ
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	ZZZ
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	ZZZ
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	ZZZ
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	ZZZ
Perfluorodecanoic acid (PFDA)	2.9	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	ZZZ
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	ZZZ
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	ZZZ
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	ZZZ
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	ZZZ
Perfluorohexanesulfonic acid (PFHxS)	15	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	BLM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	ZZZ
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	ZZZ
6:2 Fluorotelomersulfonic acid (6:2FTS A)	12	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	ZZZ
Perfluoropetanesulfonic acid (PFPeS)	1.8	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	ZZZ
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	ZZZ
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	ZZZ
Perfluoroheptanoic acid (PFHpA)	9.5	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	BLM
Perfluorooctanoic acid (PFOA)	10	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	BLM
Perfluorooctanesulfonic acid (PFOS)	87	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	BLM
Perfluorononanoic acid (PFNA)	4.9	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 19:55	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	81.1	50-200	3/24/22 19:55
M2-8:2FTS	96.1	50-200	3/24/22 19:55
MPFBA	95.1	50-200	3/24/22 19:55
M3HFPO-DA	89.6	50-200	3/24/22 19:55
M6PFDA	100	50-200	3/24/22 19:55
M3PFBS	93.0	50-200	3/24/22 19:55
M7PFUnA	91.8	50-200	3/24/22 19:55
M2-6:2FTS	110	50-200	3/24/22 19:55
M5PFPeA	119	50-200	3/24/22 19:55
M5PFHxA	92.9	50-200	3/24/22 19:55
M3PFHxS	93.9	50-200	3/24/22 19:55
M4PFHpA	91.9	50-200	3/24/22 19:55
M8PFOA	98.0	50-200	3/24/22 19:55
M8PFOS	90.0	50-200	3/24/22 19:55
M9PFNA	90.5	50-200	3/24/22 19:55
MPFDoA	78.8	50-200	3/24/22 19:55

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: LW-3A-31522 (SW)

Sampled: 3/15/2022 12:12

Sample ID: 22C1137-06

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	12	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	ZZZ
Perfluorobutanesulfonic acid (PFBS)	3.1	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	BLM
Perfluoropentanoic acid (PFPeA)	26	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	ZZZ
Perfluorohexanoic acid (PFHxA)	20	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	ZZZ
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	ZZZ
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	ZZZ
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	ZZZ
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	ZZZ
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	ZZZ
Perfluorodecanoic acid (PFDA)	5.6	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	ZZZ
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	ZZZ
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	ZZZ
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	ZZZ
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	ZZZ
Perfluorohexanesulfonic acid (PFHxS)	17	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	BLM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	ZZZ
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	ZZZ
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	ZZZ
Perfluoropentanesulfonic acid (PFPeS)	2.0	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	ZZZ
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	ZZZ
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	ZZZ
Perfluoroheptanoic acid (PFHpA)	9.3	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	BLM
Perfluorooctanoic acid (PFOA)	10	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	BLM
Perfluorooctanesulfonic acid (PFOS)	140	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	BLM
Perfluorononanoic acid (PFNA)	5.5	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:02	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	84.9	50-200	3/24/22 20:02
M2-8:2FTS	103	50-200	3/24/22 20:02
MPFBA	101	50-200	3/24/22 20:02
M3HFPO-DA	82.8	50-200	3/24/22 20:02
M6PFDA	97.4	50-200	3/24/22 20:02
M3PFBS	94.2	50-200	3/24/22 20:02
M7PFUnA	84.5	50-200	3/24/22 20:02
M2-6:2FTS	105	50-200	3/24/22 20:02
M5PFPeA	126	50-200	3/24/22 20:02
M5PFHxA	94.7	50-200	3/24/22 20:02
M3PFHxS	89.7	50-200	3/24/22 20:02
M4PFHpA	94.0	50-200	3/24/22 20:02
M8PFOA	93.6	50-200	3/24/22 20:02
M8PFOS	86.8	50-200	3/24/22 20:02
M9PFNA	89.3	50-200	3/24/22 20:02
MPFDoA	80.4	50-200	3/24/22 20:02

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: LW-4A-31522 (6)

Sampled: 3/15/2022 11:45

Sample ID: 22C1137-07

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	13	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	ZZZ
Perfluorobutanesulfonic acid (PFBS)	3.4	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	BLM
Perfluoropentanoic acid (PFPeA)	28	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	ZZZ
Perfluorohexanoic acid (PFHxA)	21	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	ZZZ
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	ZZZ
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	ZZZ
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	ZZZ
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	ZZZ
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	ZZZ
Perfluorodecanoic acid (PFDA)	3.7	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	ZZZ
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	ZZZ
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	ZZZ
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	ZZZ
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	ZZZ
Perfluorohexanesulfonic acid (PFHxS)	16	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	BLM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	ZZZ
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	ZZZ
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	ZZZ
Perfluoropentanesulfonic acid (PFPeS)	1.8	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	ZZZ
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	ZZZ
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	ZZZ
Perfluoroheptanoic acid (PFHpA)	9.7	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	BLM
Perfluorooctanoic acid (PFOA)	12	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	BLM
Perfluorooctanesulfonic acid (PFOS)	90	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	BLM
Perfluorononanoic acid (PFNA)	4.0	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:10	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	88.6	50-200	3/24/22 20:10
M2-8:2FTS	111	50-200	3/24/22 20:10
MPFBA	93.4	50-200	3/24/22 20:10
M3HFPO-DA	84.9	50-200	3/24/22 20:10
M6PFDA	89.8	50-200	3/24/22 20:10
M3PFBS	94.8	50-200	3/24/22 20:10
M7PFUnA	90.8	50-200	3/24/22 20:10
M2-6:2FTS	115	50-200	3/24/22 20:10
M5PFPeA	117	50-200	3/24/22 20:10
M5PFHxA	89.2	50-200	3/24/22 20:10
M3PFHxS	95.2	50-200	3/24/22 20:10
M4PFHpA	85.4	50-200	3/24/22 20:10
M8PFOA	83.4	50-200	3/24/22 20:10
M8PFOS	90.1	50-200	3/24/22 20:10
M9PFNA	83.1	50-200	3/24/22 20:10
MPFDoA	90.3	50-200	3/24/22 20:10

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: LW-4A-31522 (SW)

Sampled: 3/15/2022 11:47

Sample ID: 22C1137-08

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	13	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	ZZZ
Perfluorobutanesulfonic acid (PFBS)	3.2	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	BLM
Perfluoropentanoic acid (PFPeA)	27	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	ZZZ
Perfluorohexanoic acid (PFHxA)	21	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	ZZZ
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	ZZZ
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	ZZZ
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	ZZZ
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	ZZZ
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	ZZZ
Perfluorodecanoic acid (PFDA)	8.0	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	ZZZ
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	ZZZ
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	ZZZ
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	ZZZ
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	ZZZ
Perfluorohexanesulfonic acid (PFHxS)	16	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	BLM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	ZZZ
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	ZZZ
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	ZZZ
Perfluoropentanesulfonic acid (PFPeS)	1.9	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	ZZZ
Perfluoroundecanoic acid (PFUnA)	2.6	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	ZZZ
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	ZZZ
Perfluoroheptanoic acid (PFHpA)	9.7	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	BLM
Perfluorooctanoic acid (PFOA)	11	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	BLM
Perfluorooctanesulfonic acid (PFOS)	130	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	BLM
Perfluorononanoic acid (PFNA)	4.2	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:17	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	88.2	50-200	3/24/22 20:17
M2-8:2FTS	123	50-200	3/24/22 20:17
MPFBA	98.1	50-200	3/24/22 20:17
M3HFPO-DA	86.3	50-200	3/24/22 20:17
M6PFDA	93.1	50-200	3/24/22 20:17
M3PFBS	95.9	50-200	3/24/22 20:17
M7PFUnA	96.0	50-200	3/24/22 20:17
M2-6:2FTS	117	50-200	3/24/22 20:17
M5PFPeA	123	50-200	3/24/22 20:17
M5PFHxA	98.4	50-200	3/24/22 20:17
M3PFHxS	95.3	50-200	3/24/22 20:17
M4PFHpA	96.1	50-200	3/24/22 20:17
M8PFOA	98.1	50-200	3/24/22 20:17
M8PFOS	94.4	50-200	3/24/22 20:17
M9PFNA	94.3	50-200	3/24/22 20:17
MPFDoA	100	50-200	3/24/22 20:17

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: SS-5A-31522 (6)

Sampled: 3/15/2022 13:00

Sample ID: 22C1137-09

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	11	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	ZZZ
Perfluorobutanesulfonic acid (PFBS)	4.0	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	BLM
Perfluoropentanoic acid (PFPeA)	24	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	ZZZ
Perfluorohexanoic acid (PFHxA)	20	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	ZZZ
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	ZZZ
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	ZZZ
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	ZZZ
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	ZZZ
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	ZZZ
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	ZZZ
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	ZZZ
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	ZZZ
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	ZZZ
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	ZZZ
Perfluorohexanesulfonic acid (PFHxS)	23	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	BLM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	ZZZ
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	ZZZ
6:2 Fluorotelomersulfonic acid (6:2FTS A)	4.7	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	ZZZ
Perfluoropetanesulfonic acid (PFPeS)	2.5	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	ZZZ
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	ZZZ
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	ZZZ
Perfluoroheptanoic acid (PFHpA)	10	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	BLM
Perfluorooctanoic acid (PFOA)	10	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	BLM
Perfluorooctanesulfonic acid (PFOS)	41	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	BLM
Perfluorononanoic acid (PFNA)	3.0	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 20:24	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	81.4	50-200	3/24/22 20:24
M2-8:2FTS	102	50-200	3/24/22 20:24
MPFBA	89.3	50-200	3/24/22 20:24
M3HFPO-DA	72.5	50-200	3/24/22 20:24
M6PFDA	85.8	50-200	3/24/22 20:24
M3PFBS	82.1	50-200	3/24/22 20:24
M7PFUnA	88.3	50-200	3/24/22 20:24
M2-6:2FTS	108	50-200	3/24/22 20:24
M5PFPeA	115	50-200	3/24/22 20:24
M5PFHxA	85.4	50-200	3/24/22 20:24
M3PFHxS	81.4	50-200	3/24/22 20:24
M4PFHpA	79.9	50-200	3/24/22 20:24
M8PFOA	89.1	50-200	3/24/22 20:24
M8PFOS	82.0	50-200	3/24/22 20:24
M9PFNA	79.3	50-200	3/24/22 20:24
MPFDoA	81.0	50-200	3/24/22 20:24

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: SS-5A-31522 (SW)

Sampled: 3/15/2022 13:02

Sample ID: 22C1137-10

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	11	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	ZZZ
Perfluorobutanesulfonic acid (PFBS)	4.1	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	BLM
Perfluoropentanoic acid (PFPeA)	24	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	ZZZ
Perfluorohexanoic acid (PFHxA)	20	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	ZZZ
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	ZZZ
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	ZZZ
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	ZZZ
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	ZZZ
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	ZZZ
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	ZZZ
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	ZZZ
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	ZZZ
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	ZZZ
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	ZZZ
Perfluorohexanesulfonic acid (PFHxS)	23	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	BLM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	ZZZ
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	ZZZ
6:2 Fluorotelomersulfonic acid (6:2FTS A)	4.2	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	ZZZ
Perfluoropetanesulfonic acid (PFPeS)	2.4	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	ZZZ
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	ZZZ
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	ZZZ
Perfluoroheptanoic acid (PFHpA)	11	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	BLM
Perfluorooctanoic acid (PFOA)	11	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	BLM
Perfluorooctanesulfonic acid (PFOS)	44	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	BLM
Perfluorononanoic acid (PFNA)	2.8	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:31	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	90.1	50-200	3/24/22 20:31
M2-8:2FTS	120	50-200	3/24/22 20:31
MPFBA	98.0	50-200	3/24/22 20:31
M3HFPO-DA	89.1	50-200	3/24/22 20:31
M6PFDA	100	50-200	3/24/22 20:31
M3PFBS	96.1	50-200	3/24/22 20:31
M7PFUnA	97.6	50-200	3/24/22 20:31
M2-6:2FTS	136	50-200	3/24/22 20:31
M5PFPeA	128	50-200	3/24/22 20:31
M5PFHxA	96.2	50-200	3/24/22 20:31
M3PFHxS	95.1	50-200	3/24/22 20:31
M4PFHpA	93.1	50-200	3/24/22 20:31
M8PFOA	98.2	50-200	3/24/22 20:31
M8PFOS	97.3	50-200	3/24/22 20:31
M9PFNA	99.1	50-200	3/24/22 20:31
MPFDoA	101	50-200	3/24/22 20:31

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: SS-4A-31522 (6)

Sampled: 3/15/2022 13:20

Sample ID: 22C1137-11

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	12	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	ZZZ
Perfluorobutanesulfonic acid (PFBS)	5.5	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	BLM
Perfluoropentanoic acid (PFPeA)	28	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	ZZZ
Perfluorohexanoic acid (PFHxA)	22	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	ZZZ
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	ZZZ
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	ZZZ
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	ZZZ
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	ZZZ
8:2 Fluorotelomersulfonic acid (8:2FTS A)	2.7	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	ZZZ
Perfluorodecanoic acid (PFDA)	1.8	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	ZZZ
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	ZZZ
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	ZZZ
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	ZZZ
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	ZZZ
Perfluorohexanesulfonic acid (PFHxS)	34	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	BLM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	ZZZ
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	ZZZ
6:2 Fluorotelomersulfonic acid (6:2FTS A)	14	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	ZZZ
Perfluoropentanesulfonic acid (PFPeS)	3.2	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	ZZZ
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	ZZZ
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	ZZZ
Perfluoroheptanoic acid (PFHpA)	12	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	BLM
Perfluorooctanoic acid (PFOA)	12	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	BLM
Perfluorooctanesulfonic acid (PFOS)	57	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	BLM
Perfluorononanoic acid (PFNA)	2.8	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 20:53	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	87.5	50-200	3/24/22 20:53
M2-8:2FTS	116	50-200	3/24/22 20:53
MPFBA	96.9	50-200	3/24/22 20:53
M3HFPO-DA	83.8	50-200	3/24/22 20:53
M6PFDA	102	50-200	3/24/22 20:53
M3PFBS	89.1	50-200	3/24/22 20:53
M7PFUnA	106	50-200	3/24/22 20:53
M2-6:2FTS	133	50-200	3/24/22 20:53
M5PFPeA	130	50-200	3/24/22 20:53
M5PFHxA	95.4	50-200	3/24/22 20:53
M3PFHxS	86.1	50-200	3/24/22 20:53
M4PFHpA	92.9	50-200	3/24/22 20:53
M8PFOA	96.6	50-200	3/24/22 20:53
M8PFOS	94.5	50-200	3/24/22 20:53
M9PFNA	97.3	50-200	3/24/22 20:53
MPFDoA	103	50-200	3/24/22 20:53

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: SS-4A-31522 (SW)

Sampled: 3/15/2022 13:22

Sample ID: 22C1137-12

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	12	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	ZZZ
Perfluorobutanesulfonic acid (PFBS)	4.9	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	BLM
Perfluoropentanoic acid (PFPeA)	28	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	ZZZ
Perfluorohexanoic acid (PFHxA)	21	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	ZZZ
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	ZZZ
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	ZZZ
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	ZZZ
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	ZZZ
8:2 Fluorotelomersulfonic acid (8:2FTS A)	5.9	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	ZZZ
Perfluorodecanoic acid (PFDA)	3.6	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	ZZZ
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	ZZZ
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	ZZZ
Perfluoroheptanesulfonic acid (PFHpS)	2.2	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	ZZZ
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	ZZZ
Perfluorohexanesulfonic acid (PFHxS)	32	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	BLM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	ZZZ
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	ZZZ
6:2 Fluorotelomersulfonic acid (6:2FTS A)	14	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	ZZZ
Perfluoropentanesulfonic acid (PFPeS)	3.2	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	ZZZ
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	ZZZ
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	ZZZ
Perfluoroheptanoic acid (PFHpA)	12	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	BLM
Perfluorooctanoic acid (PFOA)	13	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	BLM
Perfluorooctanesulfonic acid (PFOS)	110	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	BLM
Perfluorononanoic acid (PFNA)	4.7	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:00	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	90.3	50-200	3/24/22 21:00
M2-8:2FTS	120	50-200	3/24/22 21:00
MPFBA	93.9	50-200	3/24/22 21:00
M3HFPO-DA	81.5	50-200	3/24/22 21:00
M6PFDA	95.3	50-200	3/24/22 21:00
M3PFBS	94.6	50-200	3/24/22 21:00
M7PFUnA	93.0	50-200	3/24/22 21:00
M2-6:2FTS	136	50-200	3/24/22 21:00
M5PFPeA	123	50-200	3/24/22 21:00
M5PFHxA	88.9	50-200	3/24/22 21:00
M3PFHxS	92.1	50-200	3/24/22 21:00
M4PFHpA	84.2	50-200	3/24/22 21:00
M8PFOA	90.0	50-200	3/24/22 21:00
M8PFOS	92.6	50-200	3/24/22 21:00
M9PFNA	83.3	50-200	3/24/22 21:00
MPFDoA	93.5	50-200	3/24/22 21:00

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: SS-3A-31522 (6)

Sampled: 3/15/2022 13:40

Sample ID: 22C1137-13

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	13	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	ZZZ
Perfluorobutanesulfonic acid (PFBS)	5.0	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	BLM
Perfluoropentanoic acid (PFPeA)	40	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	ZZZ
Perfluorohexanoic acid (PFHxA)	23	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	ZZZ
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	ZZZ
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	ZZZ
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	ZZZ
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	ZZZ
8:2 Fluorotelomersulfonic acid (8:2FTS A)	3.8	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	ZZZ
Perfluorodecanoic acid (PFDA)	2.7	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	ZZZ
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	ZZZ
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	ZZZ
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	ZZZ
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	ZZZ
Perfluorohexanesulfonic acid (PFHxS)	34	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	BLM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	ZZZ
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	ZZZ
6:2 Fluorotelomersulfonic acid (6:2FTS A)	14	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	ZZZ
Perfluoropentanesulfonic acid (PFPeS)	3.3	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	ZZZ
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	ZZZ
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	ZZZ
Perfluoroheptanoic acid (PFHpA)	11	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	BLM
Perfluorooctanoic acid (PFOA)	14	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	BLM
Perfluorooctanesulfonic acid (PFOS)	76	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	BLM
Perfluorononanoic acid (PFNA)	3.5	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:07	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	83.7	50-200	3/24/22 21:07
M2-8:2FTS	178	50-200	3/24/22 21:07
MPFBA	93.0	50-200	3/24/22 21:07
M3HFPO-DA	78.8	50-200	3/24/22 21:07
M6PFDA	101	50-200	3/24/22 21:07
M3PFBS	94.2	50-200	3/24/22 21:07
M7PFUnA	98.2	50-200	3/24/22 21:07
M2-6:2FTS	152	50-200	3/24/22 21:07
M5PFPeA	125	50-200	3/24/22 21:07
M5PFHxA	94.5	50-200	3/24/22 21:07
M3PFHxS	92.4	50-200	3/24/22 21:07
M4PFHpA	92.1	50-200	3/24/22 21:07
M8PFOA	97.3	50-200	3/24/22 21:07
M8PFOS	93.9	50-200	3/24/22 21:07
M9PFNA	92.2	50-200	3/24/22 21:07
MPFDoA	95.5	50-200	3/24/22 21:07

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: SS-3A-31522 (SW)

Sampled: 3/15/2022 13:42

Sample ID: 22C1137-14

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	13	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	ZZZ
Perfluorobutanesulfonic acid (PFBS)	5.7	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	BLM
Perfluoropentanoic acid (PFPeA)	30	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	ZZZ
Perfluorohexanoic acid (PFHxA)	23	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	ZZZ
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	ZZZ
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	ZZZ
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	ZZZ
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	ZZZ
8:2 Fluorotelomersulfonic acid (8:2FTS A)	3.7	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	ZZZ
Perfluorodecanoic acid (PFDA)	2.6	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	ZZZ
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	ZZZ
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	ZZZ
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	ZZZ
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	ZZZ
Perfluorohexanesulfonic acid (PFHxS)	36	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	BLM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	ZZZ
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	ZZZ
6:2 Fluorotelomersulfonic acid (6:2FTS A)	14	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	ZZZ
Perfluoropetanesulfonic acid (PFPeS)	3.5	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	ZZZ
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	ZZZ
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	ZZZ
Perfluoroheptanoic acid (PFHpA)	12	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	BLM
Perfluorooctanoic acid (PFOA)	14	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	BLM
Perfluorooctanesulfonic acid (PFOS)	80	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	BLM
Perfluorononanoic acid (PFNA)	3.6	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:14	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	82.2	50-200	3/24/22 21:14
M2-8:2FTS	115	50-200	3/24/22 21:14
MPFBA	95.7	50-200	3/24/22 21:14
M3HFPO-DA	79.9	50-200	3/24/22 21:14
M6PFDA	98.3	50-200	3/24/22 21:14
M3PFBS	89.9	50-200	3/24/22 21:14
M7PFUnA	103	50-200	3/24/22 21:14
M2-6:2FTS	131	50-200	3/24/22 21:14
M5PFPeA	123	50-200	3/24/22 21:14
M5PFHxA	92.8	50-200	3/24/22 21:14
M3PFHxS	88.7	50-200	3/24/22 21:14
M4PFHpA	94.3	50-200	3/24/22 21:14
M8PFOA	96.5	50-200	3/24/22 21:14
M8PFOS	89.0	50-200	3/24/22 21:14
M9PFNA	91.0	50-200	3/24/22 21:14
MPFDoA	103	50-200	3/24/22 21:14

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: SS-2A-31522 (6)

Sampled: 3/15/2022 14:20

Sample ID: 22C1137-15

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	11	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	ZZZ
Perfluorobutanesulfonic acid (PFBS)	5.4	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	BLM
Perfluoropentanoic acid (PFPeA)	30	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	ZZZ
Perfluorohexanoic acid (PFHxA)	24	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	ZZZ
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	ZZZ
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	ZZZ
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	ZZZ
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	ZZZ
8:2 Fluorotelomersulfonic acid (8:2FTS A)	3.5	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	ZZZ
Perfluorodecanoic acid (PFDA)	2.1	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	ZZZ
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	ZZZ
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	ZZZ
Perfluoroheptanesulfonic acid (PFHpS)	1.8	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	ZZZ
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	ZZZ
Perfluorohexanesulfonic acid (PFHxS)	34	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	BLM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	ZZZ
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	ZZZ
6:2 Fluorotelomersulfonic acid (6:2FTS A)	16	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	ZZZ
Perfluoropentanesulfonic acid (PFPeS)	3.7	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	ZZZ
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	ZZZ
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	ZZZ
Perfluoroheptanoic acid (PFHpA)	12	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	BLM
Perfluorooctanoic acid (PFOA)	14	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	BLM
Perfluorooctanesulfonic acid (PFOS)	70	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	BLM
Perfluorononanoic acid (PFNA)	3.8	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:21	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	80.2	50-200	3/24/22 21:21
M2-8:2FTS	111	50-200	3/24/22 21:21
MPFBA	92.0	50-200	3/24/22 21:21
M3HFPO-DA	80.4	50-200	3/24/22 21:21
M6PFDA	98.1	50-200	3/24/22 21:21
M3PFBS	87.4	50-200	3/24/22 21:21
M7PFUnA	102	50-200	3/24/22 21:21
M2-6:2FTS	122	50-200	3/24/22 21:21
M5PFPeA	117	50-200	3/24/22 21:21
M5PFHxA	89.8	50-200	3/24/22 21:21
M3PFHxS	85.6	50-200	3/24/22 21:21
M4PFHpA	87.4	50-200	3/24/22 21:21
M8PFOA	87.2	50-200	3/24/22 21:21
M8PFOS	91.6	50-200	3/24/22 21:21
M9PFNA	84.2	50-200	3/24/22 21:21
MPFDoA	93.7	50-200	3/24/22 21:21

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: SS-2A-31522 (SW)

Sampled: 3/15/2022 14:22

Sample ID: 22C1137-16

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	11	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	ZZZ
Perfluorobutanesulfonic acid (PFBS)	5.8	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	BLM
Perfluoropentanoic acid (PFPeA)	30	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	ZZZ
Perfluorohexanoic acid (PFHxA)	24	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	ZZZ
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	ZZZ
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	ZZZ
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	ZZZ
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	ZZZ
8:2 Fluorotelomersulfonic acid (8:2FTS A)	3.4	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	ZZZ
Perfluorodecanoic acid (PFDA)	2.3	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	ZZZ
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	ZZZ
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	ZZZ
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	ZZZ
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	ZZZ
Perfluorohexanesulfonic acid (PFHxS)	36	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	BLM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	ZZZ
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	ZZZ
6:2 Fluorotelomersulfonic acid (6:2FTS A)	15	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	ZZZ
Perfluoropentanesulfonic acid (PFPeS)	3.8	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	ZZZ
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	ZZZ
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	ZZZ
Perfluoroheptanoic acid (PFHpA)	13	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	BLM
Perfluorooctanoic acid (PFOA)	15	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	BLM
Perfluorooctanesulfonic acid (PFOS)	75	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	BLM
Perfluorononanoic acid (PFNA)	3.2	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:29	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	95.6	50-200	3/24/22 21:29
M2-8:2FTS	158	50-200	3/24/22 21:29
MPFBA	97.4	50-200	3/24/22 21:29
M3HFPO-DA	85.1	50-200	3/24/22 21:29
M6PFDA	116	50-200	3/24/22 21:29
M3PFBS	97.4	50-200	3/24/22 21:29
M7PFUnA	109	50-200	3/24/22 21:29
M2-6:2FTS	174	50-200	3/24/22 21:29
M5PFPeA	127	50-200	3/24/22 21:29
M5PFHxA	102	50-200	3/24/22 21:29
M3PFHxS	96.3	50-200	3/24/22 21:29
M4PFHpA	97.8	50-200	3/24/22 21:29
M8PFOA	100	50-200	3/24/22 21:29
M8PFOS	100	50-200	3/24/22 21:29
M9PFNA	106	50-200	3/24/22 21:29
MPFDoA	111	50-200	3/24/22 21:29

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: SS-1A-31522 (6)

Sampled: 3/15/2022 14:40

Sample ID: 22C1137-17

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	4.2	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	ZZZ
Perfluorobutanesulfonic acid (PFBS)	2.5	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	BLM
Perfluoropentanoic acid (PFPeA)	7.3	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	ZZZ
Perfluorohexanoic acid (PFHxA)	5.7	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	ZZZ
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	ZZZ
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	ZZZ
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	ZZZ
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	ZZZ
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	ZZZ
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	ZZZ
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	ZZZ
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	ZZZ
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	ZZZ
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	ZZZ
Perfluorohexanesulfonic acid (PFHxS)	7.8	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	BLM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	ZZZ
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	ZZZ
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.3	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	ZZZ
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	ZZZ
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	ZZZ
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	ZZZ
Perfluoroheptanoic acid (PFHpA)	3.0	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	BLM
Perfluorooctanoic acid (PFOA)	4.6	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	BLM
Perfluorooctanesulfonic acid (PFOS)	8.9	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	BLM
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	3/18/22	3/24/22 21:36	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	85.6	50-200	3/24/22 21:36
M2-8:2FTS	125	50-200	3/24/22 21:36
MPFBA	102	50-200	3/24/22 21:36
M3HFPO-DA	83.8	50-200	3/24/22 21:36
M6PFDA	103	50-200	3/24/22 21:36
M3PFBS	95.3	50-200	3/24/22 21:36
M7PFUnA	104	50-200	3/24/22 21:36
M2-6:2FTS	143	50-200	3/24/22 21:36
M5PFPeA	139	50-200	3/24/22 21:36
M5PFHxA	99.9	50-200	3/24/22 21:36
M3PFHxS	96.4	50-200	3/24/22 21:36
M4PFHpA	99.5	50-200	3/24/22 21:36
M8PFOA	100	50-200	3/24/22 21:36
M8PFOS	99.9	50-200	3/24/22 21:36
M9PFNA	97.1	50-200	3/24/22 21:36
MPFDoA	107	50-200	3/24/22 21:36

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: SS-1A-31522 (SW)

Sampled: 3/15/2022 14:42

Sample ID: 22C1137-18

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	4.3	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	ZZZ
Perfluorobutanesulfonic acid (PFBS)	2.5	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	BLM
Perfluoropentanoic acid (PFPeA)	7.4	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	ZZZ
Perfluorohexanoic acid (PFHxA)	5.8	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	ZZZ
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	ZZZ
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	ZZZ
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	ZZZ
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	ZZZ
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	ZZZ
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	ZZZ
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	ZZZ
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	ZZZ
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	ZZZ
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	ZZZ
Perfluorohexanesulfonic acid (PFHxS)	8.0	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	BLM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	ZZZ
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	ZZZ
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.8	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	ZZZ
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	ZZZ
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	ZZZ
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	ZZZ
Perfluoroheptanoic acid (PFHpA)	2.8	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	BLM
Perfluorooctanoic acid (PFOA)	5.2	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	BLM
Perfluorooctanesulfonic acid (PFOS)	17	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	BLM
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	3/18/22	3/24/22 21:43	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	80.8	50-200	3/24/22 21:43
M2-8:2FTS	116	50-200	3/24/22 21:43
MPFBA	98.9	50-200	3/24/22 21:43
M3HFPO-DA	88.4	50-200	3/24/22 21:43
M6PFDA	106	50-200	3/24/22 21:43
M3PFBS	92.5	50-200	3/24/22 21:43
M7PFUnA	106	50-200	3/24/22 21:43
M2-6:2FTS	135	50-200	3/24/22 21:43
M5PFPeA	131	50-200	3/24/22 21:43
M5PFHxA	98.8	50-200	3/24/22 21:43
M3PFHxS	89.5	50-200	3/24/22 21:43
M4PFHpA	98.3	50-200	3/24/22 21:43
M8PFOA	99.5	50-200	3/24/22 21:43
M8PFOS	95.3	50-200	3/24/22 21:43
M9PFNA	97.9	50-200	3/24/22 21:43
MPFDoA	100	50-200	3/24/22 21:43

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: RP-1A-31522 (6)

Sampled: 3/15/2022 10:55

Sample ID: 22C1137-19

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	21	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	ZZZ
Perfluorobutanesulfonic acid (PFBS)	13	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	BLM
Perfluoropentanoic acid (PFPeA)	61	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	ZZZ
Perfluorohexanoic acid (PFHxA)	51	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	ZZZ
11Cl-PF3OUdS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	ZZZ
9Cl-PF3ONS (F53B Major)	ND	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	ZZZ
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	ZZZ
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	ZZZ
8:2 Fluorotelomersulfonic acid (8:2FTS A)	18	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	ZZZ
Perfluorodecanoic acid (PFDA)	7.4	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	ZZZ
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	ZZZ
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	ZZZ
Perfluoroheptanesulfonic acid (PFHpS)	4.6	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	ZZZ
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	ZZZ
Perfluorohexanesulfonic acid (PFHxS)	76	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	BLM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	ZZZ
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	ZZZ
6:2 Fluorotelomersulfonic acid (6:2FTS A)	58	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	ZZZ
Perfluoropentanesulfonic acid (PFPeS)	9.8	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	ZZZ
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	ZZZ
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	ZZZ
Perfluoroheptanoic acid (PFHpA)	25	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	BLM
Perfluorooctanoic acid (PFOA)	30	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	BLM
Perfluorooctanesulfonic acid (PFOS)	190	1.9		ng/L	1	E	EPA 533	3/18/22	3/24/22 21:50	BLM
Perfluorononanoic acid (PFNA)	8.2	1.9		ng/L	1		EPA 533	3/18/22	3/24/22 21:50	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	84.9	50-200	3/24/22 21:50
M2-8:2FTS	122	50-200	3/24/22 21:50
MPFBA	89.0	50-200	3/24/22 21:50
M3HFPO-DA	73.1	50-200	3/24/22 21:50
M6PFDA	87.5	50-200	3/24/22 21:50
M3PFBS	87.4	50-200	3/24/22 21:50
M7PFUnA	96.7	50-200	3/24/22 21:50
M2-6:2FTS	124	50-200	3/24/22 21:50
M5PFPeA	116	50-200	3/24/22 21:50
M5PFHxA	88.0	50-200	3/24/22 21:50
M3PFHxS	85.8	50-200	3/24/22 21:50
M4PFHpA	87.2	50-200	3/24/22 21:50
M8PFOA	88.8	50-200	3/24/22 21:50
M8PFOS	91.3	50-200	3/24/22 21:50
M9PFNA	82.3	50-200	3/24/22 21:50
MPFDoA	91.8	50-200	3/24/22 21:50

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: RP-1A-31522 (SW)

Sampled: 3/15/2022 10:57

Sample ID: 22C1137-20

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	22	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	ZZZ
Perfluorobutanesulfonic acid (PFBS)	14	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	BLM
Perfluoropentanoic acid (PFPeA)	67	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	ZZZ
Perfluorohexanoic acid (PFHxA)	57	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	ZZZ
11Cl-PF3OUdS (F53B Minor)	ND	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	ZZZ
9Cl-PF3ONS (F53B Major)	ND	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	ZZZ
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	ZZZ
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	ZZZ
8:2 Fluorotelomersulfonic acid (8:2FTS A)	18	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	ZZZ
Perfluorodecanoic acid (PFDA)	8.3	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	ZZZ
Perfluorododecanoic acid (PFDoA)	ND	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	ZZZ
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	ZZZ
Perfluoroheptanesulfonic acid (PFHpS)	5.2	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	ZZZ
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	ZZZ
Perfluorohexanesulfonic acid (PFHxS)	88	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	BLM
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	ZZZ
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	ZZZ
6:2 Fluorotelomersulfonic acid (6:2FTS A)	62	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	ZZZ
Perfluoropentanesulfonic acid (PFPeS)	11	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	ZZZ
Perfluoroundecanoic acid (PFUnA)	ND	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	ZZZ
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	ZZZ
Perfluoroheptanoic acid (PFHpA)	28	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	BLM
Perfluorooctanoic acid (PFOA)	33	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	BLM
Perfluorooctanesulfonic acid (PFOS)	210	2.1		ng/L	1	E	EPA 533	3/18/22	3/24/22 21:57	BLM
Perfluorononanoic acid (PFNA)	8.6	2.1		ng/L	1		EPA 533	3/18/22	3/24/22 21:57	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	89.1	50-200	3/24/22 21:57
M2-8:2FTS	139	50-200	3/24/22 21:57
MPFBA	90.5	50-200	3/24/22 21:57
M3HFPO-DA	91.2	50-200	3/24/22 21:57
M6PFDA	90.9	50-200	3/24/22 21:57
M3PFBS	95.0	50-200	3/24/22 21:57
M7PFUnA	99.7	50-200	3/24/22 21:57
M2-6:2FTS	132	50-200	3/24/22 21:57
M5PFPeA	113	50-200	3/24/22 21:57
M5PFHxA	92.5	50-200	3/24/22 21:57
M3PFHxS	93.3	50-200	3/24/22 21:57
M4PFHpA	89.0	50-200	3/24/22 21:57
M8PFOA	87.9	50-200	3/24/22 21:57
M8PFOS	94.9	50-200	3/24/22 21:57
M9PFNA	88.5	50-200	3/24/22 21:57
MPFDoA	101	50-200	3/24/22 21:57

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: RP-2A-31522 (6)

Sampled: 3/15/2022 11:30

Sample ID: 22C1137-21

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	27	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
Perfluorobutanesulfonic acid (PFBS)	13	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
Perfluoropentanoic acid (PFPeA)	88	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
Perfluorohexanoic acid (PFHxA)	72	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
9Cl-PF3ONS (F53B Major)	ND	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	16	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
Perfluorodecanoic acid (PFDA)	11	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
Perfluoroheptanesulfonic acid (PFHpS)	5.4	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
Perfluorohexanesulfonic acid (PFHxS)	99	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	73	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
Perfluoropentanesulfonic acid (PFPeS)	13	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
Perfluoroheptanoic acid (PFHpA)	34	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
Perfluorooctanoic acid (PFOA)	39	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH
Perfluorooctanesulfonic acid (PFOS)	190	20		ng/L	1		EPA 533	3/31/22	4/1/22 21:28	BLH
Perfluorononanoic acid (PFNA)	11	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:24	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	101	50-200	3/28/22 21:24
M2-8:2FTS	199	50-200	3/28/22 21:24
MPFBA	99.0	50-200	3/28/22 21:24
M3HFPO-DA	84.2	50-200	3/28/22 21:24
M6PFDA	115	50-200	3/28/22 21:24
M3PFBS	121	50-200	3/28/22 21:24
M7PFUnA	120	50-200	3/28/22 21:24
M2-6:2FTS	181	50-200	3/28/22 21:24
M5PFPeA	138	50-200	3/28/22 21:24
M5PFHxA	112	50-200	3/28/22 21:24
M3PFHxS	95.1	50-200	3/28/22 21:24
M4PFHpA	98.9	50-200	3/28/22 21:24
M8PFOA	95.6	50-200	3/28/22 21:24
M8PFOS	109	50-200	4/1/22 21:28
M8PFOS	102	50-200	3/28/22 21:24
M9PFNA	82.5	50-200	3/28/22 21:24
MPFDoA	114	50-200	3/28/22 21:24

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: RP-2A-31522 (SW)

Sampled: 3/15/2022 11:32

Sample ID: 22C1137-22

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	29	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
Perfluorobutanesulfonic acid (PFBS)	13	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
Perfluoropentanoic acid (PFPeA)	94	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
Perfluorohexanoic acid (PFHxA)	77	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	18	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
Perfluorodecanoic acid (PFDA)	11	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
Perfluoroheptanesulfonic acid (PFHpS)	5.2	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
Perfluorohexanesulfonic acid (PFHxS)	110	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	72	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
Perfluoropentanesulfonic acid (PFPeS)	14	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
Perfluoroheptanoic acid (PFHpA)	37	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
Perfluorooctanoic acid (PFOA)	38	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH
Perfluorooctanesulfonic acid (PFOS)	200	20		ng/L	1		EPA 533	3/31/22	4/1/22 21:36	BLH
Perfluorononanoic acid (PFNA)	9.7	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:31	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	105	50-200	
M2-8:2FTS	211 *	50-200	S-29
MPFBA	103	50-200	
M3HFPO-DA	88.0	50-200	
M6PFDA	116	50-200	
M3PFBS	125	50-200	
M7PFUnA	138	50-200	
M2-6:2FTS	191	50-200	
M5PFPeA	140	50-200	
M5PFHxA	119	50-200	
M3PFHxS	99.1	50-200	
M4PFHpA	106	50-200	
M8PFOA	100	50-200	
M8PFOS	135	50-200	
M8PFOS	106	50-200	
M9PFNA	94.0	50-200	
MPFDoA	132	50-200	

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: RPT-1A-31522 (6)

Sampled: 3/15/2022 12:10

Sample ID: 22C1137-23

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	30	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
Perfluorobutanesulfonic acid (PFBS)	10	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
Perfluoropentanoic acid (PFPeA)	86	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
Perfluorohexanoic acid (PFHxA)	63	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
9Cl-PF3ONS (F53B Major)	ND	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	13	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
Perfluorodecanoic acid (PFDA)	7.7	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
Perfluoroheptanesulfonic acid (PFHpS)	4.6	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
Perfluorohexanesulfonic acid (PFHxS)	74	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	62	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
Perfluoropetanesulfonic acid (PFPeS)	9.4	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
Perfluoroheptanoic acid (PFHpA)	29	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
Perfluorooctanoic acid (PFOA)	32	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
Perfluorooctanesulfonic acid (PFOS)	170	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH
Perfluorononanoic acid (PFNA)	9.1	1.9		ng/L	1		EPA 533	3/22/22	3/28/22 21:38	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	96.3	50-200	3/28/22 21:38
M2-8:2FTS	187	50-200	3/28/22 21:38
MPFBA	102	50-200	3/28/22 21:38
M3HFPO-DA	99.4	50-200	3/28/22 21:38
M6PFDA	115	50-200	3/28/22 21:38
M3PFBS	118	50-200	3/28/22 21:38
M7PFUnA	135	50-200	3/28/22 21:38
M2-6:2FTS	150	50-200	3/28/22 21:38
M5PFPeA	137	50-200	3/28/22 21:38
M5PFHxA	119	50-200	3/28/22 21:38
M3PFHxS	99.9	50-200	3/28/22 21:38
M4PFHpA	106	50-200	3/28/22 21:38
M8PFOA	101	50-200	3/28/22 21:38
M8PFOS	104	50-200	3/28/22 21:38
M9PFNA	94.7	50-200	3/28/22 21:38
MPFDoA	124	50-200	3/28/22 21:38

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

Project Location: SANG

Sample Description:

Work Order: 22C1137

Date Received: 3/17/2022

Field Sample #: RPT-1A-31522 (SW)

Sampled: 3/15/2022 12:12

Sample ID: 22C1137-24

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	30	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
Perfluorobutanesulfonic acid (PFBS)	12	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
Perfluoropentanoic acid (PFPeA)	91	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
Perfluorohexanoic acid (PFHxA)	69	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	38	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
Perfluorodecanoic acid (PFDA)	24	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
Perfluoroheptanesulfonic acid (PFHpS)	7.5	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
Perfluorohexanesulfonic acid (PFHxS)	93	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	82	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
Perfluoropentanesulfonic acid (PFPeS)	12	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
Perfluoroundecanoic acid (PFUnA)	2.0	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
Perfluoroheptanoic acid (PFHpA)	33	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
Perfluorooctanoic acid (PFOA)	38	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH
Perfluorooctanesulfonic acid (PFOS)	340	20		ng/L	1		EPA 533	3/31/22	4/1/22 21:43	BLH
Perfluorononanoic acid (PFNA)	17	1.8		ng/L	1		EPA 533	3/22/22	3/28/22 21:46	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	107	50-200	
M2-8:2FTS	215 *	50-200	S-29
MPFBA	97.4	50-200	
M3HFPO-DA	88.5	50-200	
M6PFDA	117	50-200	
M3PFBS	130	50-200	
M7PFUnA	126	50-200	
M2-6:2FTS	189	50-200	
M5PFPeA	128	50-200	
M5PFHxA	117	50-200	
M3PFHxS	109	50-200	
M4PFHpA	103	50-200	
M8PFOA	102	50-200	
M8PFOS	117	50-200	
M8PFOS	105	50-200	
M9PFNA	81.7	50-200	
MPFDoA	131	50-200	

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

Sample Extraction Data

Prep Method: EPA 533-EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22C1137-01 [LW-1A-31522 (6)]	B303553	290	1.00	03/18/22
22C1137-02 [LW-1A-31522 (SW)]	B303553	280	1.00	03/18/22
22C1137-03 [LW-2A-31522 (6)]	B303553	278	1.00	03/18/22
22C1137-04 [LW-2A-31522 (SW)]	B303553	281	1.00	03/18/22
22C1137-05 [LW-3A-31522 (6)]	B303553	286	1.00	03/18/22
22C1137-06 [LW-3A-31522 (SW)]	B303553	293	1.00	03/18/22
22C1137-07 [LW-4A-31522 (6)]	B303553	282	1.00	03/18/22
22C1137-08 [LW-4A-31522 (SW)]	B303553	290	1.00	03/18/22
22C1137-09 [SS-5A-31522 (6)]	B303553	287	1.00	03/18/22
22C1137-10 [SS-5A-31522 (SW)]	B303553	285	1.00	03/18/22
22C1137-11 [SS-4A-31522 (6)]	B303553	284	1.00	03/18/22
22C1137-12 [SS-4A-31522 (SW)]	B303553	286	1.00	03/18/22
22C1137-13 [SS-3A-31522 (6)]	B303553	282	1.00	03/18/22
22C1137-14 [SS-3A-31522 (SW)]	B303553	280	1.00	03/18/22
22C1137-15 [SS-2A-31522 (6)]	B303553	278	1.00	03/18/22
22C1137-16 [SS-2A-31522 (SW)]	B303553	276	1.00	03/18/22
22C1137-17 [SS-1A-31522 (6)]	B303553	299	1.00	03/18/22
22C1137-18 [SS-1A-31522 (SW)]	B303553	279	1.00	03/18/22
22C1137-19 [RP-1A-31522 (6)]	B303553	270	1.00	03/18/22
22C1137-20 [RP-1A-31522 (SW)]	B303553	243	1.00	03/18/22

Prep Method: EPA 533-EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22C1137-21 [RP-2A-31522 (6)]	B303554	263	1.00	03/22/22
22C1137-22 [RP-2A-31522 (SW)]	B303554	277	1.00	03/22/22
22C1137-23 [RPT-1A-31522 (6)]	B303554	265	1.00	03/22/22
22C1137-24 [RPT-1A-31522 (SW)]	B303554	279	1.00	03/22/22

Prep Method: EPA 533-EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22C1137-21RE1 [RP-2A-31522 (6)]	B304373	25.0	1.00	03/31/22
22C1137-22RE1 [RP-2A-31522 (SW)]	B304373	25.0	1.00	03/31/22
22C1137-24RE1 [RPT-1A-31522 (SW)]	B304373	25.0	1.00	03/31/22

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B303553 - EPA 533
Blank (B303553-BLK1)

Prepared: 03/18/22 Analyzed: 03/24/22

Perfluorobutanoic acid (PFBA)	ND	2.0		ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0		ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L							
11Cl-PF3OUdS (F53B Minor)	ND	2.0		ng/L							
9Cl-PF3ONS (F53B Major)	ND	2.0		ng/L							
4,8-dioxo-3H-perfluorononanoic acid (ADONA)	ND	2.0		ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	2.0		ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	2.0		ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	2.0		ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	2.0		ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	2.0		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	2.0		ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	2.0		ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	2.0		ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	2.0		ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	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							
Surrogate: M2-4:2FTS	31.7			ng/L	36.6		86.6	50-200			
Surrogate: M2-8:2FTS	38.3			ng/L	37.5		102	50-200			
Surrogate: MPFBA	37.7			ng/L	39.0		96.6	50-200			
Surrogate: M3HFPO-DA	38.1			ng/L	39.0		97.6	50-200			
Surrogate: M6PFDA	38.3			ng/L	39.0		98.0	50-200			
Surrogate: M3PFBS	34.9			ng/L	36.4		96.0	50-200			
Surrogate: M7PFUnA	38.7			ng/L	39.0		99.2	50-200			
Surrogate: M2-6:2FTS	38.5			ng/L	37.1		104	50-200			
Surrogate: M5PFPeA	37.3			ng/L	39.0		95.6	50-200			
Surrogate: M5PFHxA	36.7			ng/L	39.0		94.1	50-200			
Surrogate: M3PFHxS	36.9			ng/L	37.0		99.8	50-200			
Surrogate: M4PFHpA	38.1			ng/L	39.0		97.7	50-200			
Surrogate: M8PFOA	37.7			ng/L	39.0		96.7	50-200			
Surrogate: M8PFOS	37.5			ng/L	37.4		100	50-200			
Surrogate: M9PFNA	37.5			ng/L	39.0		95.9	50-200			
Surrogate: MPFDoA	35.9			ng/L	39.0		92.0	50-200			

LCS (B303553-BS1)

Prepared: 03/18/22 Analyzed: 03/24/22

Perfluorobutanoic acid (PFBA)	1.83	2.0		ng/L	1.97		93.1	50-150			
Perfluorobutanesulfonic acid (PFBS)	1.62	2.0		ng/L	1.74		93.0	50-150			
Perfluoropentanoic acid (PFPeA)	1.78	2.0		ng/L	1.97		90.6	50-150			
Perfluorohexanoic acid (PFHxA)	1.79	2.0		ng/L	1.97		91.3	50-150			
11Cl-PF3OUdS (F53B Minor)	1.30	2.0		ng/L	1.85		70.4	50-150			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B303553 - EPA 533
LCS (B303553-BS1)

Prepared: 03/18/22 Analyzed: 03/24/22

9Cl-PF3ONS (F53B Major)	1.42	2.0		ng/L	1.83		77.3	50-150			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.46	2.0		ng/L	1.85		79.1	50-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.64	2.0		ng/L	1.97		83.4	50-150			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.80	2.0		ng/L	1.89		95.3	50-150			
Perfluorodecanoic acid (PFDA)	1.95	2.0		ng/L	1.97		99.3	50-150			
Perfluorododecanoic acid (PFDoA)	1.39	2.0		ng/L	1.97		70.9	50-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	1.61	2.0		ng/L	1.75		91.9	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.60	2.0		ng/L	1.88		85.4	50-150			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.62	2.0		ng/L	1.84		87.9	50-150			
Perfluorohexanesulfonic acid (PFHxS)	1.73	2.0		ng/L	1.80		96.4	50-150			
Perfluoro-4-oxapentanoic acid (PFMPA)	1.79	2.0		ng/L	1.97		90.9	50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.71	2.0		ng/L	1.97		86.8	50-150			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.78	2.0		ng/L	1.87		95.5	50-150			
Perfluoropentanesulfonic acid (PFPeS)	1.62	2.0		ng/L	1.85		87.8	50-150			
Perfluoroundecanoic acid (PFUnA)	1.64	2.0		ng/L	1.97		83.6	50-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.52	2.0		ng/L	1.97		77.2	50-150			
Perfluoroheptanoic acid (PFHpA)	1.73	2.0		ng/L	1.97		87.9	50-150			
Perfluorooctanoic acid (PFOA)	1.84	2.0		ng/L	1.97		93.6	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.67	2.0		ng/L	1.82		92.0	50-150			
Perfluorononanoic acid (PFNA)	2.27	2.0		ng/L	1.97		115	50-150			
Surrogate: M2-4:2FTS	28.4			ng/L	36.9		76.9	50-200			
Surrogate: M2-8:2FTS	34.8			ng/L	37.7		92.1	50-200			
Surrogate: MPFBA	38.2			ng/L	39.3		97.0	50-200			
Surrogate: M3HFPO-DA	33.8			ng/L	39.3		85.8	50-200			
Surrogate: M6PFDA	36.4			ng/L	39.3		92.7	50-200			
Surrogate: M3PFBS	32.8			ng/L	36.6		89.6	50-200			
Surrogate: M7PFUnA	38.1			ng/L	39.3		96.9	50-200			
Surrogate: M2-6:2FTS	34.7			ng/L	37.4		92.9	50-200			
Surrogate: M5PFPeA	37.9			ng/L	39.3		96.4	50-200			
Surrogate: M5PFHxA	36.2			ng/L	39.3		92.1	50-200			
Surrogate: M3PFHxS	33.4			ng/L	37.3		89.7	50-200			
Surrogate: M4PFHpA	36.8			ng/L	39.3		93.5	50-200			
Surrogate: M8PFOA	36.5			ng/L	39.3		92.9	50-200			
Surrogate: M8PFOS	36.7			ng/L	37.7		97.4	50-200			
Surrogate: M9PFNA	36.3			ng/L	39.3		92.4	50-200			
Surrogate: MPFDoA	36.4			ng/L	39.3		92.6	50-200			

LCS Dup (B303553-BS1)

Prepared: 03/18/22 Analyzed: 03/24/22

Perfluorobutanoic acid (PFBA)	2.06	1.9		ng/L	1.93		107	50-150	12.0	50	
Perfluorobutanesulfonic acid (PFBS)	1.70	1.9		ng/L	1.71		99.7	50-150	4.96	50	
Perfluoropentanoic acid (PFPeA)	1.98	1.9		ng/L	1.93		103	50-150	10.7	50	
Perfluorohexanoic acid (PFHxA)	1.95	1.9		ng/L	1.93		101	50-150	8.42	50	
11Cl-PF3OUdS (F53B Minor)	1.47	1.9		ng/L	1.81		81.1	50-150	12.1	50	
9Cl-PF3ONS (F53B Major)	1.59	1.9		ng/L	1.80		88.3	50-150	11.3	50	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.76	1.9		ng/L	1.81		96.9	50-150	18.3	50	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.36	1.9		ng/L	1.93		70.7	50-150	18.5	50	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	2.24	1.9		ng/L	1.85		121	50-150	21.7	50	

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B303553 - EPA 533
LCS Dup (B303553-BSD1)

Prepared: 03/18/22 Analyzed: 03/24/22

Perfluorodecanoic acid (PFDA)	1.89	1.9		ng/L	1.93		98.1	50-150	3.25	50	
Perfluorododecanoic acid (PFDoA)	1.51	1.9		ng/L	1.93		78.2	50-150	7.82	50	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.79	1.9		ng/L	1.71		105	50-150	10.9	50	
Perfluoroheptanesulfonic acid (PFHpS)	1.97	1.9		ng/L	1.84		107	50-150	20.7	50	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.82	1.9		ng/L	1.80		101	50-150	11.8	50	
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.9		ng/L	1.76		103	50-150	5.07	50	
Perfluoro-4-oxapentanoic acid (PFMPA)	1.95	1.9		ng/L	1.93		101	50-150	8.69	50	
Perfluoro-5-oxahexanoic acid (PFMBA)	1.87	1.9		ng/L	1.93		97.1	50-150	9.27	50	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.43	1.9		ng/L	1.83		133	50-150	30.9	50	
Perfluoropentanesulfonic acid (PFPeS)	1.75	1.9		ng/L	1.81		96.7	50-150	7.61	50	
Perfluoroundecanoic acid (PFUnA)	1.88	1.9		ng/L	1.93		97.4	50-150	13.3	50	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.66	1.9		ng/L	1.93		86.4	50-150	9.25	50	
Perfluoroheptanoic acid (PFHpA)	2.02	1.9		ng/L	1.93		105	50-150	15.7	50	
Perfluorooctanoic acid (PFOA)	1.99	1.9		ng/L	1.93		103	50-150	7.58	50	
Perfluorooctanesulfonic acid (PFOS)	1.82	1.9		ng/L	1.78		102	50-150	8.65	50	
Perfluorononanoic acid (PFNA)	2.07	1.9		ng/L	1.93		107	50-150	8.97	50	
Surrogate: M2-4:2FTS	30.0			ng/L	36.1		82.9	50-200			
Surrogate: M2-8:2FTS	36.2			ng/L	37.0		97.8	50-200			
Surrogate: MPFBA	38.1			ng/L	38.5		98.9	50-200			
Surrogate: M3HFPO-DA	38.6			ng/L	38.5		100	50-200			
Surrogate: M6PFDA	38.1			ng/L	38.5		98.9	50-200			
Surrogate: M3PFBS	33.7			ng/L	35.9		93.9	50-200			
Surrogate: M7PFUnA	36.9			ng/L	38.5		95.6	50-200			
Surrogate: M2-6:2FTS	33.9			ng/L	36.6		92.5	50-200			
Surrogate: M5PFPeA	38.0			ng/L	38.5		98.5	50-200			
Surrogate: M5PFHxA	35.4			ng/L	38.5		91.9	50-200			
Surrogate: M3PFHxS	35.1			ng/L	36.5		96.1	50-200			
Surrogate: M4PFHpA	35.0			ng/L	38.5		90.8	50-200			
Surrogate: M8PFOA	37.6			ng/L	38.5		97.7	50-200			
Surrogate: M8PFOS	37.4			ng/L	37.0		101	50-200			
Surrogate: M9PFNA	36.7			ng/L	38.5		95.3	50-200			
Surrogate: MPFDoA	35.4			ng/L	38.5		91.9	50-200			

Batch B303554 - EPA 533
Blank (B303554-BLK1)

Prepared: 03/22/22 Analyzed: 03/28/22

Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L							
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L							
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L							
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L							

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B303554 - EPA 533
Blank (B303554-BLK1)

Prepared: 03/22/22 Analyzed: 03/28/22

Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L							
Surrogate: M2-4:2FTS	34.4			ng/L	33.4		103	50-200			
Surrogate: M2-8:2FTS	41.4			ng/L	34.1		121	50-200			
Surrogate: MPFBA	40.8			ng/L	35.6		115	50-200			
Surrogate: M3HFPO-DA	43.7			ng/L	35.6		123	50-200			
Surrogate: M6PFDA	43.4			ng/L	35.6		122	50-200			
Surrogate: M3PFBS	42.3			ng/L	33.1		128	50-200			
Surrogate: M7PFUnA	51.6			ng/L	35.6		145	50-200			
Surrogate: M2-6:2FTS	32.8			ng/L	33.8		96.9	50-200			
Surrogate: M5PFPeA	41.7			ng/L	35.6		117	50-200			
Surrogate: M5PFHxA	47.2			ng/L	35.6		133	50-200			
Surrogate: M3PFHxS	37.8			ng/L	33.7		112	50-200			
Surrogate: M4PFHpA	43.3			ng/L	35.6		122	50-200			
Surrogate: M8PFOA	39.2			ng/L	35.6		110	50-200			
Surrogate: M8PFOS	39.6			ng/L	34.1		116	50-200			
Surrogate: M9PFNA	36.3			ng/L	35.6		102	50-200			
Surrogate: MPFDoA	46.2			ng/L	35.6		130	50-200			

LCS (B303554-BS1)

Prepared: 03/22/22 Analyzed: 03/28/22

Perfluorobutanoic acid (PFBA)	8.47	1.7		ng/L	8.63		98.1	70-130			
Perfluorobutanesulfonic acid (PFBS)	7.37	1.7		ng/L	7.64		96.5	70-130			
Perfluoropentanoic acid (PFPeA)	8.56	1.7		ng/L	8.63		99.2	70-130			
Perfluorohexanoic acid (PFHxA)	8.94	1.7		ng/L	8.63		104	70-130			
11Cl-PF3OUdS (F53B Minor)	9.04	1.7		ng/L	8.13		111	70-130			
9Cl-PF3ONS (F53B Major)	8.98	1.7		ng/L	8.04		112	70-130			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	6.78	1.7		ng/L	8.13		83.4	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.49	1.7		ng/L	8.63		86.8	70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	8.37	1.7		ng/L	8.28		101	70-130			
Perfluorodecanoic acid (PFDA)	8.48	1.7		ng/L	8.63		98.3	70-130			
Perfluorododecanoic acid (PFDoA)	6.48	1.7		ng/L	8.63		75.1	70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	7.10	1.7		ng/L	7.68		92.5	70-130			
Perfluoroheptanesulfonic acid (PFHpS)	7.40	1.7		ng/L	8.24		89.8	70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	8.13	1.7		ng/L	8.07		101	70-130			
Perfluorohexanesulfonic acid (PFHxS)	7.26	1.7		ng/L	7.89		92.0	70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	8.72	1.7		ng/L	8.63		101	70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	7.79	1.7		ng/L	8.63		90.3	70-130			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B303554 - EPA 533
LCS (B303554-BS1)

Prepared: 03/22/22 Analyzed: 03/28/22

6:2 Fluorotelomersulfonic acid (6:2FTS A)	8.37	1.7		ng/L	8.20		102	70-130			
Perfluoropentanesulfonic acid (PFPeS)	8.79	1.7		ng/L	8.11		108	70-130			
Perfluoroundecanoic acid (PFUnA)	7.65	1.7		ng/L	8.63		88.7	70-130			
Nonfluoro-3,6-dioxahexanoic acid (NFDHA)	7.64	1.7		ng/L	8.63		88.5	70-130			
Perfluoroheptanoic acid (PFHpA)	8.59	1.7		ng/L	8.63		99.6	70-130			
Perfluorooctanoic acid (PFOA)	8.15	1.7		ng/L	8.63		94.5	70-130			
Perfluorooctanesulfonic acid (PFOS)	8.04	1.7		ng/L	7.98		101	70-130			
Perfluorononanoic acid (PFNA)	8.84	1.7		ng/L	8.63		102	70-130			
Surrogate: M2-4:2FTS	31.5			ng/L	32.4		97.3	50-200			
Surrogate: M2-8:2FTS	37.2			ng/L	33.1		112	50-200			
Surrogate: MPFBA	37.5			ng/L	34.5		109	50-200			
Surrogate: M3HFPO-DA	46.7			ng/L	34.5		135	50-200			
Surrogate: M6PFDA	40.8			ng/L	34.5		118	50-200			
Surrogate: M3PFBS	39.8			ng/L	32.2		124	50-200			
Surrogate: M7PFUnA	49.8			ng/L	34.5		144	50-200			
Surrogate: M2-6:2FTS	28.1			ng/L	32.8		85.6	50-200			
Surrogate: M5PFPeA	38.7			ng/L	34.5		112	50-200			
Surrogate: M5PFHxA	47.7			ng/L	34.5		138	50-200			
Surrogate: M3PFHxS	32.6			ng/L	32.7		99.7	50-200			
Surrogate: M4PFHpA	41.8			ng/L	34.5		121	50-200			
Surrogate: M8PFOA	39.6			ng/L	34.5		115	50-200			
Surrogate: M8PFOS	35.7			ng/L	33.1		108	50-200			
Surrogate: M9PFNA	40.1			ng/L	34.5		116	50-200			
Surrogate: MPFDoA	49.3			ng/L	34.5		143	50-200			

LCS Dup (B303554-BS1)

Prepared: 03/22/22 Analyzed: 03/28/22

Perfluorobutanoic acid (PFBA)	8.52	1.8		ng/L	8.81		96.7	70-130	0.684	30	
Perfluorobutanesulfonic acid (PFBS)	7.22	1.8		ng/L	7.80		92.6	70-130	1.96	30	
Perfluoropentanoic acid (PFPeA)	8.41	1.8		ng/L	8.81		95.4	70-130	1.85	30	
Perfluorohexanoic acid (PFHxA)	8.75	1.8		ng/L	8.81		99.3	70-130	2.10	30	
11Cl-PF3OUdS (F53B Minor)	8.77	1.8		ng/L	8.30		106	70-130	3.08	30	
9Cl-PF3ONS (F53B Major)	8.82	1.8		ng/L	8.21		107	70-130	1.79	30	
4,8-dioxo-3H-perfluorononanoic acid (ADONA)	6.83	1.8		ng/L	8.30		82.3	70-130	0.852	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.73	1.8		ng/L	8.81		87.7	70-130	3.22	30	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	8.19	1.8		ng/L	8.46		96.8	70-130	2.15	30	
Perfluorodecanoic acid (PFDA)	8.98	1.8		ng/L	8.81		102	70-130	5.70	30	
Perfluorododecanoic acid (PFDoA)	6.68	1.8		ng/L	8.81		75.8	70-130	3.01	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	7.05	1.8		ng/L	7.84		89.9	70-130	0.781	30	
Perfluoroheptanesulfonic acid (PFHpS)	7.16	1.8		ng/L	8.42		85.1	70-130	3.23	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	8.70	1.8		ng/L	8.24		106	70-130	6.72	30	
Perfluorohexanesulfonic acid (PFHxS)	6.89	1.8		ng/L	8.06		85.5	70-130	5.21	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	8.63	1.8		ng/L	8.81		97.9	70-130	1.09	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	7.67	1.8		ng/L	8.81		87.1	70-130	1.53	30	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	9.58	1.8		ng/L	8.37		114	70-130	13.5	30	
Perfluoropentanesulfonic acid (PFPeS)	7.95	1.8		ng/L	8.28		96.0	70-130	10.0	30	
Perfluoroundecanoic acid (PFUnA)	8.05	1.8		ng/L	8.81		91.3	70-130	5.07	30	
Nonfluoro-3,6-dioxahexanoic acid (NFDHA)	7.68	1.8		ng/L	8.81		87.2	70-130	0.571	30	
Perfluoroheptanoic acid (PFHpA)	8.24	1.8		ng/L	8.81		93.5	70-130	4.17	30	

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B303554 - EPA 533
LCS Dup (B303554-BSD1)

Prepared: 03/22/22 Analyzed: 03/28/22

Perfluorooctanoic acid (PFOA)	8.27	1.8		ng/L	8.81		93.9	70-130	1.47	30	
Perfluorooctanesulfonic acid (PFOS)	7.92	1.8		ng/L	8.15		97.1	70-130	1.57	30	
Perfluorononanoic acid (PFNA)	8.64	1.8		ng/L	8.81		98.1	70-130	2.28	30	
Surrogate: M2-4:2FTS	31.8			ng/L	33.1		96.3	50-200			
Surrogate: M2-8:2FTS	38.6			ng/L	33.8		114	50-200			
Surrogate: MPFBA	38.2			ng/L	35.2		108	50-200			
Surrogate: M3HFPO-DA	43.0			ng/L	35.2		122	50-200			
Surrogate: M6PFDA	41.1			ng/L	35.2		117	50-200			
Surrogate: M3PFBS	39.6			ng/L	32.9		121	50-200			
Surrogate: M7PFUnA	47.4			ng/L	35.2		134	50-200			
Surrogate: M2-6:2FTS	29.1			ng/L	33.5		86.9	50-200			
Surrogate: M5PFPeA	39.8			ng/L	35.2		113	50-200			
Surrogate: M5PFHxA	45.8			ng/L	35.2		130	50-200			
Surrogate: M3PFHxS	34.7			ng/L	33.4		104	50-200			
Surrogate: M4PFHpA	39.8			ng/L	35.2		113	50-200			
Surrogate: M8PFOA	38.5			ng/L	35.2		109	50-200			
Surrogate: M8PFOS	34.7			ng/L	33.8		103	50-200			
Surrogate: M9PFNA	37.8			ng/L	35.2		107	50-200			
Surrogate: MPFDoA	48.2			ng/L	35.2		137	50-200			

Batch B304373 - EPA 533
Blank (B304373-BLK1)

Prepared: 03/31/22 Analyzed: 04/01/22

Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L							
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L							
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L							
4,8-dioxo-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	ND	1.8		ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L							
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	ND	1.8		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L							

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B304373 - EPA 533
Blank (B304373-BLK1)

Prepared: 03/31/22 Analyzed: 04/01/22

Surrogate: M2-4:2FTS	39.2			ng/L	34.2		115	50-200			
Surrogate: M2-8:2FTS	42.6			ng/L	35.0		122	50-200			
Surrogate: MPFBA	46.6			ng/L	36.5		128	50-200			
Surrogate: M3HFPO-DA	48.4			ng/L	36.5		133	50-200			
Surrogate: M6PFDA	48.1			ng/L	36.5		132	50-200			
Surrogate: M3PFBS	42.6			ng/L	34.0		125	50-200			
Surrogate: M7PFUnA	46.1			ng/L	36.5		126	50-200			
Surrogate: M2-6:2FTS	40.1			ng/L	34.7		115	50-200			
Surrogate: M5PFPeA	46.2			ng/L	36.5		127	50-200			
Surrogate: M5PFHxA	47.8			ng/L	36.5		131	50-200			
Surrogate: M3PFHxS	41.4			ng/L	34.6		120	50-200			
Surrogate: M4PFHpA	46.2			ng/L	36.5		127	50-200			
Surrogate: M8PFOA	44.2			ng/L	36.5		121	50-200			
Surrogate: M8PFOS	43.9			ng/L	35.0		126	50-200			
Surrogate: M9PFNA	43.1			ng/L	36.5		118	50-200			
Surrogate: MPFDoA	43.4			ng/L	36.5		119	50-200			

LCS (B304373-BS1)

Prepared: 03/31/22 Analyzed: 04/01/22

Perfluorobutanoic acid (PFBA)	18.6	1.8		ng/L	17.8		104	70-130			
Perfluorobutanesulfonic acid (PFBS)	16.0	1.8		ng/L	15.7		101	70-130			
Perfluoropentanoic acid (PFPeA)	18.4	1.8		ng/L	17.8		104	70-130			
Perfluorohexanoic acid (PFHxA)	18.9	1.8		ng/L	17.8		106	70-130			
11Cl-PF3OUdS (F53B Minor)	18.1	1.8		ng/L	16.8		108	70-130			
9Cl-PF3ONS (F53B Major)	18.6	1.8		ng/L	16.6		112	70-130			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	15.8	1.8		ng/L	16.8		94.1	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	15.4	1.8		ng/L	17.8		86.6	70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	19.4	1.8		ng/L	17.1		114	70-130			
Perfluorodecanoic acid (PFDA)	17.1	1.8		ng/L	17.8		95.9	70-130			
Perfluorododecanoic acid (PFDoA)	14.4	1.8		ng/L	17.8		80.9	70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	17.2	1.8		ng/L	15.8		109	70-130			
Perfluoroheptanesulfonic acid (PFHpS)	16.8	1.8		ng/L	17.0		98.8	70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	18.8	1.8		ng/L	16.6		113	70-130			
Perfluorohexanesulfonic acid (PFHxS)	16.3	1.8		ng/L	16.3		100	70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	19.6	1.8		ng/L	17.8		110	70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	18.4	1.8		ng/L	17.8		103	70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	18.9	1.8		ng/L	16.9		112	70-130			
Perfluoropentanesulfonic acid (PFPeS)	16.5	1.8		ng/L	16.7		98.8	70-130			
Perfluoroundecanoic acid (PFUnA)	17.4	1.8		ng/L	17.8		97.9	70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	16.9	1.8		ng/L	17.8		95.1	70-130			
Perfluoroheptanoic acid (PFHpA)	18.2	1.8		ng/L	17.8		102	70-130			
Perfluorooctanoic acid (PFOA)	18.2	1.8		ng/L	17.8		102	70-130			
Perfluorooctanesulfonic acid (PFOS)	18.8	1.8		ng/L	16.5		114	70-130			
Perfluorononanoic acid (PFNA)	20.4	1.8		ng/L	17.8		115	70-130			
Surrogate: M2-4:2FTS	35.3			ng/L	33.4		106	50-200			
Surrogate: M2-8:2FTS	41.7			ng/L	34.2		122	50-200			
Surrogate: MPFBA	39.7			ng/L	35.6		112	50-200			
Surrogate: M3HFPO-DA	41.5			ng/L	35.6		117	50-200			
Surrogate: M6PFDA	42.0			ng/L	35.6		118	50-200			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B304373 - EPA 533
LCS (B304373-BS1)

Prepared: 03/31/22 Analyzed: 04/01/22

Surrogate: M3PFBS	38.8			ng/L	33.2		117	50-200			
Surrogate: M7PFUnA	44.1			ng/L	35.6		124	50-200			
Surrogate: M2-6:2FTS	35.7			ng/L	33.8		106	50-200			
Surrogate: M5PFPeA	40.4			ng/L	35.6		114	50-200			
Surrogate: M5PFHxA	42.7			ng/L	35.6		120	50-200			
Surrogate: M3PFHxS	40.1			ng/L	33.7		119	50-200			
Surrogate: M4PFHpA	40.8			ng/L	35.6		115	50-200			
Surrogate: M8PFOA	40.4			ng/L	35.6		114	50-200			
Surrogate: M8PFOS	38.2			ng/L	34.1		112	50-200			
Surrogate: M9PFNA	36.7			ng/L	35.6		103	50-200			
Surrogate: MPFDoA	40.8			ng/L	35.6		115	50-200			

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
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.
E	Reported result is estimated. Value reported over verified calibration range.
PF-20	Sample extracted at a dilution. Elevated reporting limits due to adjusted sample volume during preparation.
S-29	Extracted Internal Standard is outside of control limits.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
EPA 533 in Drinking Water	
Perfluorobutanoic acid (PFBA)	VT-DW,ME,NJ,NH-P
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME,NJ,NH-P
Perfluoropentanoic acid (PFPeA)	VT-DW,ME,NJ,NH-P
Perfluorohexanoic acid (PFHxA)	VT-DW,ME,NJ,NH-P
11Cl-PF3OUdS (F53B Minor)	VT-DW,ME,NJ,NH-P
9Cl-PF3ONS (F53B Major)	VT-DW,ME,NJ,NH-P
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	VT-DW,ME,NJ,NH-P
Hexafluoropropylene oxide dimer acid (HFPO-DA)	VT-DW,ME,NJ,NH-P
8:2 Fluorotelomersulfonic acid (8:2FTS A)	VT-DW,ME,NJ,NH-P
Perfluorodecanoic acid (PFDA)	VT-DW,ME,NJ,NH-P
Perfluorododecanoic acid (PFDoA)	VT-DW,ME,NJ,NH-P
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	VT-DW,ME,NJ,NH-P
Perfluoroheptanesulfonic acid (PFHpS)	VT-DW,ME,NJ,NH-P
4:2 Fluorotelomersulfonic acid (4:2FTS A)	VT-DW,ME,NJ,NH-P
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME,NJ,NH-P
Perfluoro-4-oxapentanoic acid (PFMPA)	VT-DW,ME,NJ,NH-P
Perfluoro-5-oxahexanoic acid (PFMBA)	VT-DW,ME,NJ,NH-P
6:2 Fluorotelomersulfonic acid (6:2FTS A)	VT-DW,ME,NJ,NH-P
Perfluoropetanesulfonic acid (PFPeS)	VT-DW,ME,NJ,NH-P
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME,NJ,NH-P
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	VT-DW,ME,NJ,NH-P
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME,NJ,NH-P
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,NJ
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,NJ
Perfluorononanoic acid (PFNA)	VT-DW,ME,NJ,NH-P

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

22C1137



Infrastructure Water Environment Building

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

Page 1 of 2

ID#:

Contact & Company Name:		Telephone:		Preservative		Ammonium		Acetate	
Nick Firman/ARCADIS		315.539.6075		Filtered (✓)		N/A			
Address:		Fax:		# of Containers		2 per Sample			
110 W Fayette St				Container Information		3			
City		State		Zip					
SYRACUSE NY 13202		Nick.Firman@arcadis.com		E-mail Address:					
Project Name/Location (City, State):		Project #:							
NYSDC PPS Invest. (Newburgh)		30053849							
Sampler's Printed Name:		Sampler's Signature:							
Nick Firman									
Sample ID	Collection Date	Time	Type (✓)	Comp	Grab	Matrix	PARAMETER ANALYSIS & METHOD		
LW-1A-31522 (6")	3/15/22	1030	X			SW	EPA Method 533		
LW-1A-31522 (SW)		1032							
LW-2A-31522 (6")		1105							
LW-2A-31522 (SW)		1107							
LW-3A-31522 (6")		1210							
LW-3A-31522 (SW)		1212							
LW-4A-31522 (6")		1145							
LW-4A-31522 (SW)		1147							
SS-5A-31522 (6")		1300							
SS-5A-31522 (SW)		1302							
SS-4A-31522 (6")		1320							
SS-4A-31522 (SW)		1322							
SS-3A-31522 (6")		1340							
SS-3A-31522 (SW)		1342							
Special Instructions/Comments:									
☐ Special QA/QC Instructions (✓): Please analyze Samples Per EPA Method 533 via NYSDC callout # 141589. Please feel free to call or email with any questions at 315.539.6075 or Nick.Firman@arcadis.com. Thank you.									

Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By	
Lab Name:	Paul Analytical	Printed Name:	Nick Firman	Printed Name:	Steve Lovelace	Printed Name:		Printed Name:	
Cooler Custody Seal (✓)	☐ Intact ☐ Not Intact	Signature:	[Signature]	Signature:	[Signature]	Signature:		Signature:	
Sample Receipt	Condition/Cooler Temp: _____	Firm:	ARCADIS	Firm/Courier:	Pace	Firm:		Firm:	
Shipping Tracking #:		Date/Time:	3/16/22 1100	Date/Time:	3/17/22 928	Date/Time:		Date/Time:	

20730526 Co/C AR Form 01.12.2007

Distribution:

WHITE - Laboratory returns with results

YELLOW - Lab copy

PINK - Retained by ARCADIS



Infrastructure Water Environment Buildings

ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

Page 2 of 2

Contact & Company Name: <u>See page 1</u>		Telephone:		Preservative Filtered (✓)		<u>See page 1</u>	
Address:		Fax:		# of Containers			
City		State		Zip		Container Information	
Project Name/Location (City, State):		E-mail Address:		PARAMETER ANALYSIS & METHOD			
Project #:		Sampler's Signature:					
Sampler's Printed Name:							
Sample ID	Collection Date	Time	Type (✓) Comp	Grab	Matrix	REMARKS	
SS-2A-31522(6")	3/15/22	1420	X		SW	See page 1	
SS-2A-31522(SW)		1422					
SS-1A-31522(6")		1440					
SS-1A-31522(SW)		1442					
RP-1A-31522(6")		1055					
RP-1A-31522(SW)		1057					
RP-2A-31522(6")		1130					
RP-2A-31522(SW)		1132					
RPT-1A-31522(6")		1210					
RPT-1A-31522(SW)		1212					
Special Instructions/Comments:							
☐ Special QA/QC Instructions(✓):							
Laboratory Information and Receipt		Relinquished By		Received By		Laboratory Received By	
Lab Name: <u>Pace Analytics</u>	Cooler Custody Seal (✓)	Printed Name: <u>Nick Birman</u>	Printed Name:	Printed Name:	Printed Name:		
☐ Intact ☐ Not Intact		Signature: <u>[Signature]</u>	Signature:	Signature:	Signature:		
Sample Receipt		Firm: <u>Arcadis</u>	Firm/Courier:	Firm:	Firm:		
Condition/Cooler Temp: <u>Standard 10 deg</u>		Date/Time: <u>3/16/22 1100</u>	Date/Time:	Date/Time:	Date/Time:		
Distribution:		WHITE - Laboratory returns with results		YELLOW - Lab copy		PINK - Retained by ARCADIS	



FedEx® Tracking



270925115131



ADD NICKNAME

Delivered
Thursday, March 17, 2022 at 9:28 am

**DELIVERED**

Signed for by: R.RIOS

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

SYRACUSE, NY US

TO

EAST LONGMEADOW, MA US

MANAGE DELIVERY

Travel History

TIME ZONE

Local Scan Time

**Thursday, March 17, 2022**

9:28 AM	EAST LONGMEADOW, MA	Delivered
7:31 AM	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:22 AM	WINDSOR LOCKS, CT	At local FedEx facility
2:11 AM	NEWARK, NJ	Departed FedEx hub

Wednesday, March 16, 2022

11:59 PM	NEWARK, NJ	Arrived at FedEx hub
8:40 PM	NORTH SYRACUSE, NY	Left FedEx origin facility
7:08 PM	NORTH SYRACUSE, NY	Shipment arriving On-Time
6:41 PM	NORTH SYRACUSE, NY	Picked up
9:32 AM		Shipment information sent to FedEx

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 N.Y. Acadia

Received By Q Date 3/17/22 Time 928

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 # 3 Actual Temp -4.1
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? MS Were Samples Tampered with? MS

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 T
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? NA 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	<u>48</u>	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:

July 19, 2022

David Chiusano
NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065

Project Location: Newburgh, NY
Client Job Number:
Project Number: Spill # 336089
Laboratory Work Order Number: 22F1159

Enclosed are results of analyses for samples as received by the laboratory on June 17, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	8
22F1159-01	8
22F1159-02	9
22F1159-03	10
22F1159-04	11
22F1159-05	12
22F1159-06	13
22F1159-07	14
22F1159-08	15
22F1159-09	16
22F1159-10	17
22F1159-11	18
22F1159-12	19
22F1159-13	20
22F1159-14	21
22F1159-15	22
22F1159-16	23
22F1159-17	24
22F1159-18	25
22F1159-19	26
22F1159-20	27
22F1159-21	28
22F1159-22	29

Table of Contents (continued)

22F1159-23	30
22F1159-24	31
22F1159-25	32
22F1159-26	33
22F1159-27	34
22F1159-28	36
22F1159-29	37
22F1159-30	38
22F1159-31	39
22F1159-32	40
22F1159-33	41
22F1159-34	42
22F1159-35	43
22F1159-36	44
22F1159-37	46
Sample Preparation Information	47
QC Data	49
Semivolatile Organic Compounds by - LC/MS-MS	49
B311032	49
B311289	50
B312205	53
B312869	55
Flag/Qualifier Summary	59
Certifications	60
Chain of Custody/Sample Receipt	61

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

 NYDEC_Arcadis US, Inc. - Clifton Park-NY
 855 Route 146, Suite 210
 Clifton Park, NY 12065
 ATTN: David Chiusano

REPORT DATE: 7/19/2022

PURCHASE ORDER NUMBER: 141589

PROJECT NUMBER: Spill # 336089

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22F1159

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Newburgh, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WL-3A-B	22F1159-01	Drinking Water		EPA 533	
WL-3A-T	22F1159-02	Drinking Water		EPA 533	
WL-2A-M	22F1159-03	Drinking Water		EPA 533	
WL-4A-M	22F1159-04	Drinking Water		EPA 533	
WL-1A-B	22F1159-05	Drinking Water		EPA 533	
WL-1A-T	22F1159-06	Drinking Water		EPA 533	
WL-6A-B	22F1159-07	Drinking Water		EPA 533	
WL-6A-M	22F1159-08	Drinking Water		EPA 533	
WL-6A-T	22F1159-09	Drinking Water		EPA 533	
WL-5A-B	22F1159-10	Drinking Water		EPA 533	
WL-5A-M	22F1159-11	Drinking Water		EPA 533	
WL-5A-T	22F1159-12	Drinking Water		EPA 533	
MC-1A-M	22F1159-13	Drinking Water		EPA 533	
MC-3A(SW)	22F1159-14	Drinking Water		EPA 533	
MC-3A(6")	22F1159-15	Drinking Water		EPA 533	
MC-4A(6")	22F1159-16	Drinking Water		EPA 533	
MC-4A(SW)	22F1159-17	Drinking Water		EPA 533	
MC-2A(6")	22F1159-18	Drinking Water		EPA 533	
MC-2A(SW)	22F1159-19	Drinking Water		EPA 533	
MC-1A(6")	22F1159-20	Drinking Water		EPA 533	
MC-1A(SW)	22F1159-21	Drinking Water		EPA 533	
SS-6A(6")	22F1159-22	Drinking Water		EPA 533	
SS-6A(SW)	22F1159-23	Drinking Water		EPA 533	
SS-5A(6")	22F1159-24	Drinking Water		EPA 533	
SS-5A(SW)	22F1159-25	Drinking Water		EPA 533	
SS-3A(6")	22F1159-26	Drinking Water		EPA 533	
SS-3A(SW)	22F1159-27	Drinking Water		EPA 533	
SS-2A(6")	22F1159-28	Drinking Water		EPA 533	
SS-2A(SW)	22F1159-29	Drinking Water		EPA 533	
SS-1A(6")	22F1159-30	Drinking Water		EPA 533	
SS-1A(SW)	22F1159-31	Drinking Water		EPA 533	
RP-1A(6")	22F1159-32	Drinking Water		EPA 533	
RP-1A(SW)	22F1159-33	Drinking Water		EPA 533	
RP-2A(6")	22F1159-34	Drinking Water		EPA 533	
RP-2A(SW)	22F1159-35	Drinking Water		EPA 533	
RPT-1A(6")	22F1159-36	Drinking Water		EPA 533	
RPT-1A(SW)	22F1159-37	Drinking Water		EPA 533	

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

CASE NARRATIVE SUMMARY

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

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

EPA 533**Qualifications:****PF-01**

Surrogate recovery is outside of control limits. Sample not re-extracted past holding time per method.

Analyte & Samples(s) Qualified:**M3PFBA**

22F1159-23[SS-6A(SW)]

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:**M2-8:2FTS**

22F1159-25[SS-5A(SW)]

Z-01

Extracted internal standard outside of conformance limits. Data not significantly affected as associated analyte is not detected and the bias is on the high side.

Analyte & Samples(s) Qualified:**M2-6:2FTS**

22F1159-36RE1[RPT-1A(6")]

Z-01a

Extracted internal standard outside of conformance limits. Sample re-extract confirmed non-conformance.

Analyte & Samples(s) Qualified:**M2-6:2FTS**

22F1159-32RE1[RP-1A(6")], 22F1159-35RE1[RP-2A(SW)]

M2-8:2FTS

22F1159-32RE1[RP-1A(6")], 22F1159-35RE1[RP-2A(SW)]

Z-01b

Extracted internal standard outside of conformance limits. Sample re-extract confirmed non-conformance. Original results reported.

Analyte & Samples(s) Qualified:**M2-8:2FTS**

22F1159-24[SS-5A(6")]

Z-01c

Internal standard area <50% of associated calibration internal standard area. Sample re-extract confirmed non-conformance. Original result reported.

Analyte & Samples(s) Qualified:**M3PFBA**

22F1159-22[SS-6A(6")], 22F1159-24[SS-5A(6")], 22F1159-25[SS-5A(SW)], 22F1159-26[SS-3A(6")]

Z-01d

Internal standard area <50% of associated continuing calibration standard internal standard area.

Analyte & Samples(s) Qualified:**M3PFBA**

22F1159-27[SS-3A(SW)], 22F1159-31[SS-1A(SW)], 22F1159-34[RP-2A(6")], 22F1159-36[RPT-1A(6")], 22F1159-37[RPT-1A(SW)]

Z-01e

Internal standard area <50% of associated continuing calibration standard internal standard area. Original result reported.

Analyte & Samples(s) Qualified:**M3PFBA**

22F1159-33[RP-1A(SW)]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace 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.



Lisa A. Worthington
Technical Representative

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: WL-3A-B

Sampled: 6/14/2022 09:30

Sample ID: 22F1159-01

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	13	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
Perfluorobutanesulfonic acid (PFBS)	3.2	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
Perfluoropentanoic acid (PFPeA)	26	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
Perfluorohexanoic acid (PFHxA)	19	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
Perfluorohexanesulfonic acid (PFHxS)	14	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
Perfluoropetanesulfonic acid (PFPeS)	1.8	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
Perfluoroheptanoic acid (PFHpA)	7.4	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
Perfluorooctanoic acid (PFOA)	8.8	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
Perfluorooctanesulfonic acid (PFOS)	36	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH
Perfluorononanoic acid (PFNA)	2.0	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:41	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	132	50-200	7/1/22 20:41
M2-8:2FTS	156	50-200	7/1/22 20:41
MPFBA	117	50-200	7/1/22 20:41
M3HFPO-DA	96.1	50-200	7/1/22 20:41
M6PFDA	140	50-200	7/1/22 20:41
M3PFBS	123	50-200	7/1/22 20:41
M7PFUnA	119	50-200	7/1/22 20:41
M2-6:2FTS	180	50-200	7/1/22 20:41
M5PFPeA	161	50-200	7/1/22 20:41
M5PFHxA	122	50-200	7/1/22 20:41
M3PFHxS	118	50-200	7/1/22 20:41
M4PFHpA	122	50-200	7/1/22 20:41
M8PFOA	111	50-200	7/1/22 20:41
M8PFOS	110	50-200	7/1/22 20:41
M9PFNA	107	50-200	7/1/22 20:41
MPFDoA	110	50-200	7/1/22 20:41

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: WL-3A-T

Sampled: 6/14/2022 09:35

Sample ID: 22F1159-02

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	14	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
Perfluorobutanesulfonic acid (PFBS)	3.5	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
Perfluoropentanoic acid (PFPeA)	32	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
Perfluorohexanoic acid (PFHxA)	21	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
Perfluorohexanesulfonic acid (PFHxS)	14	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
Perfluoropentanesulfonic acid (PFPeS)	1.8	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
Perfluoroheptanoic acid (PFHpA)	7.8	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
Perfluorooctanoic acid (PFOA)	8.7	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
Perfluorooctanesulfonic acid (PFOS)	35	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH
Perfluorononanoic acid (PFNA)	2.2	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 20:48	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	108	50-200	7/1/22 20:48
M2-8:2FTS	121	50-200	7/1/22 20:48
MPFBA	105	50-200	7/1/22 20:48
M3HFPO-DA	74.0	50-200	7/1/22 20:48
M6PFDA	110	50-200	7/1/22 20:48
M3PFBS	107	50-200	7/1/22 20:48
M7PFUnA	92.9	50-200	7/1/22 20:48
M2-6:2FTS	144	50-200	7/1/22 20:48
M5PFPeA	146	50-200	7/1/22 20:48
M5PFHxA	99.8	50-200	7/1/22 20:48
M3PFHxS	108	50-200	7/1/22 20:48
M4PFHpA	98.5	50-200	7/1/22 20:48
M8PFOA	97.2	50-200	7/1/22 20:48
M8PFOS	104	50-200	7/1/22 20:48
M9PFNA	91.2	50-200	7/1/22 20:48
MPFDoA	91.4	50-200	7/1/22 20:48

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: WL-2A-M

Sampled: 6/14/2022 10:20

Sample ID: 22F1159-03

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	15	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
Perfluorobutanesulfonic acid (PFBS)	3.6	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
Perfluoropentanoic acid (PFPeA)	32	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
Perfluorohexanoic acid (PFHxA)	21	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
Perfluorohexanesulfonic acid (PFHxS)	13	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
Perfluoropentanesulfonic acid (PFPeS)	1.9	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
Perfluoroheptanoic acid (PFHpA)	7.8	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
Perfluorooctanoic acid (PFOA)	7.3	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
Perfluorooctanesulfonic acid (PFOS)	30	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH
Perfluorononanoic acid (PFNA)	1.9	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 20:56	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	118	50-200	7/1/22 20:56
M2-8:2FTS	138	50-200	7/1/22 20:56
MPFBA	112	50-200	7/1/22 20:56
M3HFPO-DA	74.5	50-200	7/1/22 20:56
M6PFDA	103	50-200	7/1/22 20:56
M3PFBS	115	50-200	7/1/22 20:56
M7PFUnA	98.6	50-200	7/1/22 20:56
M2-6:2FTS	139	50-200	7/1/22 20:56
M5PFPeA	157	50-200	7/1/22 20:56
M5PFHxA	98.1	50-200	7/1/22 20:56
M3PFHxS	108	50-200	7/1/22 20:56
M4PFHpA	98.8	50-200	7/1/22 20:56
M8PFOA	105	50-200	7/1/22 20:56
M8PFOS	107	50-200	7/1/22 20:56
M9PFNA	93.0	50-200	7/1/22 20:56
MPFDoA	87.1	50-200	7/1/22 20:56

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: WL-4A-M

Sampled: 6/14/2022 10:45

Sample ID: 22F1159-04

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	14	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
Perfluorobutanesulfonic acid (PFBS)	3.7	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
Perfluoropentanoic acid (PFPeA)	33	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
Perfluorohexanoic acid (PFHxA)	23	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
Perfluorohexanesulfonic acid (PFHxS)	13	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
Perfluoropentanesulfonic acid (PFPeS)	1.8	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
Perfluoroheptanoic acid (PFHpA)	9.4	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
Perfluorooctanoic acid (PFOA)	11	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
Perfluorooctanesulfonic acid (PFOS)	36	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH
Perfluorononanoic acid (PFNA)	3.1	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:10	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	123	50-200	7/11/22 12:10
M2-8:2FTS	159	50-200	7/11/22 12:10
MPFBA	88.1	50-200	7/11/22 12:10
M3HFPO-DA	65.8	50-200	7/11/22 12:10
M6PFDA	87.5	50-200	7/11/22 12:10
M3PFBS	96.6	50-200	7/11/22 12:10
M7PFUnA	83.8	50-200	7/11/22 12:10
M2-6:2FTS	176	50-200	7/11/22 12:10
M5PFPeA	155	50-200	7/11/22 12:10
M5PFHxA	79.9	50-200	7/11/22 12:10
M3PFHxS	101	50-200	7/11/22 12:10
M4PFHpA	85.3	50-200	7/11/22 12:10
M8PFOA	87.3	50-200	7/11/22 12:10
M8PFOS	113	50-200	7/11/22 12:10
M9PFNA	78.4	50-200	7/11/22 12:10
MPFDoA	83.0	50-200	7/11/22 12:10

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: WL-1A-B

Sampled: 6/14/2022 11:05

Sample ID: 22F1159-05

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	14	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
Perfluorobutanesulfonic acid (PFBS)	3.4	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
Perfluoropentanoic acid (PFPeA)	31	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
Perfluorohexanoic acid (PFHxA)	22	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
Perfluorohexanesulfonic acid (PFHxS)	13	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
Perfluoroheptanoic acid (PFHpA)	6.8	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
Perfluorooctanoic acid (PFOA)	6.9	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
Perfluorooctanesulfonic acid (PFOS)	30	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH
Perfluorononanoic acid (PFNA)	1.9	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:10	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	111	50-200	7/1/22 21:10
M2-8:2FTS	126	50-200	7/1/22 21:10
MPFBA	103	50-200	7/1/22 21:10
M3HFPO-DA	83.6	50-200	7/1/22 21:10
M6PFDA	109	50-200	7/1/22 21:10
M3PFBS	107	50-200	7/1/22 21:10
M7PFUnA	100	50-200	7/1/22 21:10
M2-6:2FTS	133	50-200	7/1/22 21:10
M5PFPeA	193	50-200	7/1/22 21:10
M5PFHxA	107	50-200	7/1/22 21:10
M3PFHxS	115	50-200	7/1/22 21:10
M4PFHpA	112	50-200	7/1/22 21:10
M8PFOA	117	50-200	7/1/22 21:10
M8PFOS	102	50-200	7/1/22 21:10
M9PFNA	103	50-200	7/1/22 21:10
MPFDoA	115	50-200	7/1/22 21:10

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: WL-1A-T

Sampled: 6/14/2022 11:10

Sample ID: 22F1159-06

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	14	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
Perfluorobutanesulfonic acid (PFBS)	3.5	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
Perfluoropentanoic acid (PFPeA)	32	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
Perfluorohexanoic acid (PFHxA)	22	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
Perfluorohexanesulfonic acid (PFHxS)	12	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
Perfluoroheptanoic acid (PFHpA)	7.5	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
Perfluorooctanoic acid (PFOA)	8.9	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
Perfluorooctanesulfonic acid (PFOS)	35	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH
Perfluorononanoic acid (PFNA)	2.0	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:17	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	118	50-200	7/1/22 21:17
M2-8:2FTS	119	50-200	7/1/22 21:17
MPFBA	104	50-200	7/1/22 21:17
M3HFPO-DA	82.6	50-200	7/1/22 21:17
M6PFDA	111	50-200	7/1/22 21:17
M3PFBS	116	50-200	7/1/22 21:17
M7PFUnA	105	50-200	7/1/22 21:17
M2-6:2FTS	170	50-200	7/1/22 21:17
M5PFPeA	136	50-200	7/1/22 21:17
M5PFHxA	102	50-200	7/1/22 21:17
M3PFHxS	118	50-200	7/1/22 21:17
M4PFHpA	103	50-200	7/1/22 21:17
M8PFOA	96.5	50-200	7/1/22 21:17
M8PFOS	101	50-200	7/1/22 21:17
M9PFNA	94.3	50-200	7/1/22 21:17
MPFDoA	84.4	50-200	7/1/22 21:17

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: WL-6A-B

Sampled: 6/14/2022 11:30

Sample ID: 22F1159-07

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	14	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
Perfluorobutanesulfonic acid (PFBS)	3.6	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
Perfluoropentanoic acid (PFPeA)	28	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
Perfluorohexanoic acid (PFHxA)	20	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
Perfluorohexanesulfonic acid (PFHxS)	14	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
Perfluoropentanesulfonic acid (PFPeS)	1.9	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
Perfluoroheptanoic acid (PFHpA)	7.5	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
Perfluorooctanoic acid (PFOA)	8.0	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
Perfluorooctanesulfonic acid (PFOS)	36	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH
Perfluorononanoic acid (PFNA)	2.1	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:24	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	119	50-200	7/1/22 21:24
M2-8:2FTS	123	50-200	7/1/22 21:24
MPFBA	109	50-200	7/1/22 21:24
M3HFPO-DA	78.8	50-200	7/1/22 21:24
M6PFDA	100	50-200	7/1/22 21:24
M3PFBS	117	50-200	7/1/22 21:24
M7PFUnA	97.4	50-200	7/1/22 21:24
M2-6:2FTS	148	50-200	7/1/22 21:24
M5PFPeA	158	50-200	7/1/22 21:24
M5PFHxA	97.5	50-200	7/1/22 21:24
M3PFHxS	116	50-200	7/1/22 21:24
M4PFHpA	95.9	50-200	7/1/22 21:24
M8PFOA	99.2	50-200	7/1/22 21:24
M8PFOS	111	50-200	7/1/22 21:24
M9PFNA	84.7	50-200	7/1/22 21:24
MPFDoA	90.5	50-200	7/1/22 21:24

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: WL-6A-M

Sampled: 6/14/2022 11:35

Sample ID: 22F1159-08

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	15	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
Perfluorobutanesulfonic acid (PFBS)	3.6	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
Perfluoropentanoic acid (PFPeA)	33	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
Perfluorohexanoic acid (PFHxA)	23	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
Perfluorohexanesulfonic acid (PFHxS)	14	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
Perfluoropentanesulfonic acid (PFPeS)	1.8	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
Perfluoroheptanoic acid (PFHpA)	8.5	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
Perfluorooctanoic acid (PFOA)	8.7	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
Perfluorooctanesulfonic acid (PFOS)	39	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH
Perfluorononanoic acid (PFNA)	2.2	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:39	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	102	50-200	7/1/22 21:39
M2-8:2FTS	120	50-200	7/1/22 21:39
MPFBA	93.4	50-200	7/1/22 21:39
M3HFPO-DA	76.2	50-200	7/1/22 21:39
M6PFDA	102	50-200	7/1/22 21:39
M3PFBS	99.0	50-200	7/1/22 21:39
M7PFUnA	102	50-200	7/1/22 21:39
M2-6:2FTS	133	50-200	7/1/22 21:39
M5PFPeA	128	50-200	7/1/22 21:39
M5PFHxA	94.3	50-200	7/1/22 21:39
M3PFHxS	105	50-200	7/1/22 21:39
M4PFHpA	90.1	50-200	7/1/22 21:39
M8PFOA	94.0	50-200	7/1/22 21:39
M8PFOS	94.1	50-200	7/1/22 21:39
M9PFNA	86.8	50-200	7/1/22 21:39
MPFDoA	100	50-200	7/1/22 21:39

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: WL-6A-T

Sampled: 6/14/2022 11:40

Sample ID: 22F1159-09

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	16	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
Perfluorobutanesulfonic acid (PFBS)	3.8	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
Perfluoropentanoic acid (PFPeA)	33	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
Perfluorohexanoic acid (PFHxA)	23	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
Perfluorohexanesulfonic acid (PFHxS)	14	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
Perfluoropentanesulfonic acid (PFPeS)	2.0	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
Perfluoroheptanoic acid (PFHpA)	8.3	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
Perfluorooctanoic acid (PFOA)	9.0	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
Perfluorooctanesulfonic acid (PFOS)	37	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH
Perfluorononanoic acid (PFNA)	2.1	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:46	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	112	50-200	7/1/22 21:46
M2-8:2FTS	118	50-200	7/1/22 21:46
MPFBA	103	50-200	7/1/22 21:46
M3HFPO-DA	78.8	50-200	7/1/22 21:46
M6PFDA	108	50-200	7/1/22 21:46
M3PFBS	109	50-200	7/1/22 21:46
M7PFUnA	101	50-200	7/1/22 21:46
M2-6:2FTS	151	50-200	7/1/22 21:46
M5PFPeA	141	50-200	7/1/22 21:46
M5PFHxA	97.6	50-200	7/1/22 21:46
M3PFHxS	102	50-200	7/1/22 21:46
M4PFHpA	96.9	50-200	7/1/22 21:46
M8PFOA	96.3	50-200	7/1/22 21:46
M8PFOS	96.3	50-200	7/1/22 21:46
M9PFNA	90.5	50-200	7/1/22 21:46
MPFDoA	95.8	50-200	7/1/22 21:46

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: WL-5A-B

Sampled: 6/14/2022 12:15

Sample ID: 22F1159-10

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	12	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
Perfluorobutanesulfonic acid (PFBS)	3.1	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
Perfluoropentanoic acid (PFPeA)	27	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
Perfluorohexanoic acid (PFHxA)	19	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
Perfluorohexanesulfonic acid (PFHxS)	13	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
Perfluoroheptanoic acid (PFHpA)	6.9	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
Perfluorooctanoic acid (PFOA)	7.5	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
Perfluorooctanesulfonic acid (PFOS)	40	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH
Perfluorononanoic acid (PFNA)	2.0	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 21:53	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	114	50-200	7/1/22 21:53
M2-8:2FTS	122	50-200	7/1/22 21:53
MPFBA	114	50-200	7/1/22 21:53
M3HFPO-DA	78.0	50-200	7/1/22 21:53
M6PFDA	97.2	50-200	7/1/22 21:53
M3PFBS	118	50-200	7/1/22 21:53
M7PFUnA	100	50-200	7/1/22 21:53
M2-6:2FTS	153	50-200	7/1/22 21:53
M5PFPeA	151	50-200	7/1/22 21:53
M5PFHxA	104	50-200	7/1/22 21:53
M3PFHxS	117	50-200	7/1/22 21:53
M4PFHpA	103	50-200	7/1/22 21:53
M8PFOA	102	50-200	7/1/22 21:53
M8PFOS	96.1	50-200	7/1/22 21:53
M9PFNA	93.5	50-200	7/1/22 21:53
MPFDoA	102	50-200	7/1/22 21:53

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: WL-5A-M

Sampled: 6/14/2022 12:20

Sample ID: 22F1159-11

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	14	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
Perfluorobutanesulfonic acid (PFBS)	3.4	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
Perfluoropentanoic acid (PFPeA)	29	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
Perfluorohexanoic acid (PFHxA)	20	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
Perfluorohexanesulfonic acid (PFHxS)	14	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
Perfluoropentanesulfonic acid (PFPeS)	1.8	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
Perfluoroheptanoic acid (PFHpA)	7.4	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
Perfluorooctanoic acid (PFOA)	8.2	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
Perfluorooctanesulfonic acid (PFOS)	39	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH
Perfluorononanoic acid (PFNA)	2.0	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:00	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	106	50-200	7/1/22 22:00
M2-8:2FTS	109	50-200	7/1/22 22:00
MPFBA	104	50-200	7/1/22 22:00
M3HFPO-DA	83.6	50-200	7/1/22 22:00
M6PFDA	101	50-200	7/1/22 22:00
M3PFBS	106	50-200	7/1/22 22:00
M7PFUnA	106	50-200	7/1/22 22:00
M2-6:2FTS	122	50-200	7/1/22 22:00
M5PFPeA	138	50-200	7/1/22 22:00
M5PFHxA	105	50-200	7/1/22 22:00
M3PFHxS	107	50-200	7/1/22 22:00
M4PFHpA	105	50-200	7/1/22 22:00
M8PFOA	104	50-200	7/1/22 22:00
M8PFOS	97.0	50-200	7/1/22 22:00
M9PFNA	92.8	50-200	7/1/22 22:00
MPFDoA	85.8	50-200	7/1/22 22:00

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: WL-5A-T

Sampled: 6/14/2022 12:25

Sample ID: 22F1159-12

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	11	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
Perfluorobutanesulfonic acid (PFBS)	3.7	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
Perfluoropentanoic acid (PFPeA)	32	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
Perfluorohexanoic acid (PFHxA)	22	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
Perfluorohexanesulfonic acid (PFHxS)	13	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
Perfluoropentanesulfonic acid (PFPeS)	1.7	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
Perfluoroheptanoic acid (PFHpA)	8.8	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
Perfluorooctanoic acid (PFOA)	7.8	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
Perfluorooctanesulfonic acid (PFOS)	33	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH
Perfluorononanoic acid (PFNA)	1.8	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:07	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	116	50-200	7/1/22 22:07
M2-8:2FTS	134	50-200	7/1/22 22:07
MPFBA	102	50-200	7/1/22 22:07
M3HFPO-DA	75.2	50-200	7/1/22 22:07
M6PFDA	102	50-200	7/1/22 22:07
M3PFBS	110	50-200	7/1/22 22:07
M7PFUnA	88.1	50-200	7/1/22 22:07
M2-6:2FTS	139	50-200	7/1/22 22:07
M5PFPeA	131	50-200	7/1/22 22:07
M5PFHxA	96.0	50-200	7/1/22 22:07
M3PFHxS	112	50-200	7/1/22 22:07
M4PFHpA	91.5	50-200	7/1/22 22:07
M8PFOA	102	50-200	7/1/22 22:07
M8PFOS	106	50-200	7/1/22 22:07
M9PFNA	87.9	50-200	7/1/22 22:07
MPFDoA	84.9	50-200	7/1/22 22:07

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: MC-1A-M

Sampled: 6/14/2022 13:15

Sample ID: 22F1159-13

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	7.0	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
Perfluorobutanesulfonic acid (PFBS)	3.5	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
Perfluoropentanoic acid (PFPeA)	3.8	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
Perfluorohexanoic acid (PFHxA)	3.1	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
Perfluorohexanesulfonic acid (PFHxS)	3.9	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
Perfluoroheptanoic acid (PFHpA)	2.4	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
Perfluorooctanoic acid (PFOA)	5.9	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
Perfluorooctanesulfonic acid (PFOS)	9.8	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	7/5/22	7/11/22 12:18	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	133	50-200	7/11/22 12:18
M2-8:2FTS	155	50-200	7/11/22 12:18
MPFBA	85.9	50-200	7/11/22 12:18
M3HFPO-DA	52.5	50-200	7/11/22 12:18
M6PFDA	87.6	50-200	7/11/22 12:18
M3PFBS	82.5	50-200	7/11/22 12:18
M7PFUnA	86.8	50-200	7/11/22 12:18
M2-6:2FTS	176	50-200	7/11/22 12:18
M5PFPeA	136	50-200	7/11/22 12:18
M5PFHxA	75.7	50-200	7/11/22 12:18
M3PFHxS	84.6	50-200	7/11/22 12:18
M4PFHpA	81.0	50-200	7/11/22 12:18
M8PFOA	85.6	50-200	7/11/22 12:18
M8PFOS	78.1	50-200	7/11/22 12:18
M9PFNA	80.1	50-200	7/11/22 12:18
MPFDoA	78.7	50-200	7/11/22 12:18

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: MC-3A(SW)

Sampled: 6/14/2022 15:05

Sample ID: 22F1159-14

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	5.3	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
Perfluorobutanesulfonic acid (PFBS)	2.1	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
Perfluoropentanoic acid (PFPeA)	3.9	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
Perfluorohexanoic acid (PFHxA)	4.0	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
Perfluorohexanesulfonic acid (PFHxS)	3.7	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
Perfluoroheptanoic acid (PFHpA)	2.1	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
Perfluorooctanoic acid (PFOA)	4.8	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
Perfluorooctanesulfonic acid (PFOS)	14	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:22	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	137	50-200	7/1/22 22:22
M2-8:2FTS	165	50-200	7/1/22 22:22
MPFBA	109	50-200	7/1/22 22:22
M3HFPO-DA	75.5	50-200	7/1/22 22:22
M6PFDA	107	50-200	7/1/22 22:22
M3PFBS	120	50-200	7/1/22 22:22
M7PFUnA	118	50-200	7/1/22 22:22
M2-6:2FTS	163	50-200	7/1/22 22:22
M5PFPeA	154	50-200	7/1/22 22:22
M5PFHxA	103	50-200	7/1/22 22:22
M3PFHxS	122	50-200	7/1/22 22:22
M4PFHpA	98.5	50-200	7/1/22 22:22
M8PFOA	98.6	50-200	7/1/22 22:22
M8PFOS	105	50-200	7/1/22 22:22
M9PFNA	92.2	50-200	7/1/22 22:22
MPFDoA	106	50-200	7/1/22 22:22

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: MC-3A(6'')

Sampled: 6/14/2022 15:00

Sample ID: 22F1159-15

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	5.2	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
Perfluorobutanesulfonic acid (PFBS)	2.2	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
Perfluoropentanoic acid (PFPeA)	6.9	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
Perfluorohexanoic acid (PFHxA)	4.3	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
Perfluorohexanesulfonic acid (PFHxS)	3.9	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
Perfluoroheptanoic acid (PFHpA)	2.2	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
Perfluorooctanoic acid (PFOA)	4.2	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
Perfluorooctanesulfonic acid (PFOS)	11	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:29	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	133	50-200	7/1/22 22:29
M2-8:2FTS	152	50-200	7/1/22 22:29
MPFBA	108	50-200	7/1/22 22:29
M3HFPO-DA	79.2	50-200	7/1/22 22:29
M6PFDA	113	50-200	7/1/22 22:29
M3PFBS	113	50-200	7/1/22 22:29
M7PFUnA	106	50-200	7/1/22 22:29
M2-6:2FTS	168	50-200	7/1/22 22:29
M5PFPeA	154	50-200	7/1/22 22:29
M5PFHxA	107	50-200	7/1/22 22:29
M3PFHxS	109	50-200	7/1/22 22:29
M4PFHpA	105	50-200	7/1/22 22:29
M8PFOA	110	50-200	7/1/22 22:29
M8PFOS	101	50-200	7/1/22 22:29
M9PFNA	99.0	50-200	7/1/22 22:29
MPFDoA	112	50-200	7/1/22 22:29

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: MC-4A(6'')

Sampled: 6/14/2022 15:30

Sample ID: 22F1159-16

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	5.5	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
Perfluorobutanesulfonic acid (PFBS)	2.5	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
Perfluoropentanoic acid (PFPeA)	9.2	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
Perfluorohexanoic acid (PFHxA)	4.2	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
Perfluorohexanesulfonic acid (PFHxS)	3.6	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
Perfluoroheptanoic acid (PFHpA)	2.0	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
Perfluorooctanoic acid (PFOA)	5.1	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
Perfluorooctanesulfonic acid (PFOS)	12	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	6/24/22	7/1/22 22:36	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	137	50-200	7/1/22 22:36
M2-8:2FTS	192	50-200	7/1/22 22:36
MPFBA	107	50-200	7/1/22 22:36
M3HFPO-DA	76.4	50-200	7/1/22 22:36
M6PFDA	108	50-200	7/1/22 22:36
M3PFBS	118	50-200	7/1/22 22:36
M7PFUnA	99.6	50-200	7/1/22 22:36
M2-6:2FTS	184	50-200	7/1/22 22:36
M5PFPeA	149	50-200	7/1/22 22:36
M5PFHxA	107	50-200	7/1/22 22:36
M3PFHxS	121	50-200	7/1/22 22:36
M4PFHpA	106	50-200	7/1/22 22:36
M8PFOA	93.7	50-200	7/1/22 22:36
M8PFOS	105	50-200	7/1/22 22:36
M9PFNA	89.9	50-200	7/1/22 22:36
MPFDoA	97.0	50-200	7/1/22 22:36

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: MC-4A(SW)

Sampled: 6/14/2022 15:35

Sample ID: 22F1159-17

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	5.5	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
Perfluorobutanesulfonic acid (PFBS)	2.1	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
Perfluoropentanoic acid (PFPeA)	6.7	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
Perfluorohexanoic acid (PFHxA)	4.4	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
Perfluorohexanesulfonic acid (PFHxS)	4.1	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
Perfluoroheptanoic acid (PFHpA)	2.3	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
Perfluorooctanoic acid (PFOA)	4.7	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
Perfluorooctanesulfonic acid (PFOS)	11	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	6/24/22	7/1/22 22:43	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	121	50-200	7/1/22 22:43
M2-8:2FTS	149	50-200	7/1/22 22:43
MPFBA	96.9	50-200	7/1/22 22:43
M3HFPO-DA	76.4	50-200	7/1/22 22:43
M6PFDA	99.7	50-200	7/1/22 22:43
M3PFBS	102	50-200	7/1/22 22:43
M7PFUnA	97.0	50-200	7/1/22 22:43
M2-6:2FTS	141	50-200	7/1/22 22:43
M5PFPeA	131	50-200	7/1/22 22:43
M5PFHxA	94.6	50-200	7/1/22 22:43
M3PFHxS	100	50-200	7/1/22 22:43
M4PFHpA	89.2	50-200	7/1/22 22:43
M8PFOA	93.9	50-200	7/1/22 22:43
M8PFOS	93.6	50-200	7/1/22 22:43
M9PFNA	85.9	50-200	7/1/22 22:43
MPFDoA	96.4	50-200	7/1/22 22:43

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: MC-2A(6'')

Sampled: 6/14/2022 16:30

Sample ID: 22F1159-18

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	5.5	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
Perfluorobutanesulfonic acid (PFBS)	2.4	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
Perfluoropentanoic acid (PFPeA)	11	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
Perfluorohexanoic acid (PFHxA)	7.0	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
Perfluorohexanesulfonic acid (PFHxS)	7.4	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
Perfluoroheptanoic acid (PFHpA)	4.1	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
Perfluorooctanoic acid (PFOA)	7.3	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
Perfluorooctanesulfonic acid (PFOS)	21	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:03	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	135	50-200	7/13/22 2:03
M2-8:2FTS	149	50-200	7/13/22 2:03
MPFBA	91.2	50-200	7/13/22 2:03
M3HFPO-DA	87.0	50-200	7/13/22 2:03
M6PFDA	87.1	50-200	7/13/22 2:03
M3PFBS	119	50-200	7/13/22 2:03
M7PFUnA	94.2	50-200	7/13/22 2:03
M2-6:2FTS	177	50-200	7/13/22 2:03
M5PFPeA	138	50-200	7/13/22 2:03
M5PFHxA	105	50-200	7/13/22 2:03
M3PFHxS	116	50-200	7/13/22 2:03
M4PFHpA	99.2	50-200	7/13/22 2:03
M8PFOA	93.6	50-200	7/13/22 2:03
M8PFOS	99.3	50-200	7/13/22 2:03
M9PFNA	72.7	50-200	7/13/22 2:03
MPFDoA	86.2	50-200	7/13/22 2:03

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: MC-2A(SW)

Sampled: 6/14/2022 16:35

Sample ID: 22F1159-19

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	5.8	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
Perfluorobutanesulfonic acid (PFBS)	2.4	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
Perfluoropentanoic acid (PFPeA)	11	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
Perfluorohexanoic acid (PFHxA)	7.1	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
Perfluorohexanesulfonic acid (PFHxS)	7.9	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
Perfluoroheptanoic acid (PFHpA)	4.5	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
Perfluorooctanoic acid (PFOA)	8.5	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
Perfluorooctanesulfonic acid (PFOS)	31	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL
Perfluorononanoic acid (PFNA)	2.1	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:10	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	133	50-200	7/13/22 2:10
M2-8:2FTS	130	50-200	7/13/22 2:10
MPFBA	96.7	50-200	7/13/22 2:10
M3HFPO-DA	89.1	50-200	7/13/22 2:10
M6PFDA	72.6	50-200	7/13/22 2:10
M3PFBS	116	50-200	7/13/22 2:10
M7PFUnA	78.0	50-200	7/13/22 2:10
M2-6:2FTS	145	50-200	7/13/22 2:10
M5PFPeA	154	50-200	7/13/22 2:10
M5PFHxA	94.8	50-200	7/13/22 2:10
M3PFHxS	115	50-200	7/13/22 2:10
M4PFHpA	84.9	50-200	7/13/22 2:10
M8PFOA	82.0	50-200	7/13/22 2:10
M8PFOS	95.7	50-200	7/13/22 2:10
M9PFNA	63.6	50-200	7/13/22 2:10
MPFDoA	77.7	50-200	7/13/22 2:10

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: MC-1A(6'')

Sampled: 6/14/2022 16:45

Sample ID: 22F1159-20

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	3.2	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
Perfluorobutanesulfonic acid (PFBS)	1.8	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
Perfluoropentanoic acid (PFPeA)	4.8	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
Perfluorohexanoic acid (PFHxA)	3.3	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
Perfluorohexanesulfonic acid (PFHxS)	2.6	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
Perfluoroheptanoic acid (PFHpA)	1.8	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
Perfluorooctanoic acid (PFOA)	4.6	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
Perfluorooctanesulfonic acid (PFOS)	7.2	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:18	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	129	50-200	7/13/22 2:18
M2-8:2FTS	141	50-200	7/13/22 2:18
MPFBA	95.0	50-200	7/13/22 2:18
M3HFPO-DA	71.8	50-200	7/13/22 2:18
M6PFDA	61.9	50-200	7/13/22 2:18
M3PFBS	117	50-200	7/13/22 2:18
M7PFUnA	69.8	50-200	7/13/22 2:18
M2-6:2FTS	166	50-200	7/13/22 2:18
M5PFPeA	146	50-200	7/13/22 2:18
M5PFHxA	93.6	50-200	7/13/22 2:18
M3PFHxS	114	50-200	7/13/22 2:18
M4PFHpA	88.7	50-200	7/13/22 2:18
M8PFOA	81.5	50-200	7/13/22 2:18
M8PFOS	96.6	50-200	7/13/22 2:18
M9PFNA	56.0	50-200	7/13/22 2:18
MPFDoA	70.1	50-200	7/13/22 2:18

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: MC-1A(SW)

Sampled: 6/14/2022 16:50

Sample ID: 22F1159-21

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	3.2	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
Perfluorobutanesulfonic acid (PFBS)	1.8	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
Perfluoropentanoic acid (PFPeA)	4.8	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
Perfluorohexanoic acid (PFHxA)	3.2	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
Perfluorohexanesulfonic acid (PFHxS)	2.4	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
Perfluoroheptanoic acid (PFHpA)	1.8	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
Perfluorooctanoic acid (PFOA)	4.3	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
Perfluorooctanesulfonic acid (PFOS)	6.7	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:25	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	138	50-200	7/13/22 2:25
M2-8:2FTS	155	50-200	7/13/22 2:25
MPFBA	99.2	50-200	7/13/22 2:25
M3HFPO-DA	94.6	50-200	7/13/22 2:25
M6PFDA	73.6	50-200	7/13/22 2:25
M3PFBS	120	50-200	7/13/22 2:25
M7PFUnA	82.3	50-200	7/13/22 2:25
M2-6:2FTS	167	50-200	7/13/22 2:25
M5PFPeA	139	50-200	7/13/22 2:25
M5PFHxA	108	50-200	7/13/22 2:25
M3PFHxS	118	50-200	7/13/22 2:25
M4PFHpA	102	50-200	7/13/22 2:25
M8PFOA	94.6	50-200	7/13/22 2:25
M8PFOS	97.2	50-200	7/13/22 2:25
M9PFNA	65.4	50-200	7/13/22 2:25
MPFDoA	82.8	50-200	7/13/22 2:25

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: SS-6A(6'')

Sampled: 6/14/2022 17:00

Sample ID: 22F1159-22

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	12	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
Perfluorobutanesulfonic acid (PFBS)	4.0	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
Perfluoropentanoic acid (PFPeA)	26	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
Perfluorohexanoic acid (PFHxA)	18	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
Perfluorodecanoic acid (PFDA)	1.9	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
Perfluorohexanesulfonic acid (PFHxS)	20	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
Perfluoropetanesulfonic acid (PFPeS)	2.1	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
Perfluoroheptanoic acid (PFHpA)	10	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
Perfluorooctanoic acid (PFOA)	15	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
Perfluorooctanesulfonic acid (PFOS)	62	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL
Perfluorononanoic acid (PFNA)	4.0	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:32	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	152	50-200	7/13/22 2:32
M2-8:2FTS	187	50-200	7/13/22 2:32
MPFBA	109	50-200	7/13/22 2:32
M3HFPO-DA	97.0	50-200	7/13/22 2:32
M6PFDA	93.0	50-200	7/13/22 2:32
M3PFBS	124	50-200	7/13/22 2:32
M7PFUnA	98.5	50-200	7/13/22 2:32
M2-6:2FTS	189	50-200	7/13/22 2:32
M5PFPeA	174	50-200	7/13/22 2:32
M5PFHxA	113	50-200	7/13/22 2:32
M3PFHxS	124	50-200	7/13/22 2:32
M4PFHpA	110	50-200	7/13/22 2:32
M8PFOA	98.2	50-200	7/13/22 2:32
M8PFOS	95.6	50-200	7/13/22 2:32
M9PFNA	75.9	50-200	7/13/22 2:32
MPFDoA	93.3	50-200	7/13/22 2:32

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: SS-6A(SW)

Sampled: 6/14/2022 17:05

Sample ID: 22F1159-23

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	12	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
Perfluorobutanesulfonic acid (PFBS)	4.2	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
Perfluoropentanoic acid (PFPeA)	27	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
Perfluorohexanoic acid (PFHxA)	18	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
Perfluorodecanoic acid (PFDA)	1.8	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
Perfluorohexanesulfonic acid (PFHxS)	23	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.0	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
Perfluoropetanesulfonic acid (PFPeS)	2.2	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
Perfluoroheptanoic acid (PFHpA)	11	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
Perfluorooctanoic acid (PFOA)	14	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
Perfluorooctanesulfonic acid (PFOS)	52	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL
Perfluorononanoic acid (PFNA)	4.6	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:39	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	149	50-200	7/13/22 2:39
M2-8:2FTS	159	50-200	7/13/22 2:39
MPFBA	98.3	50-200	7/13/22 2:39
M3HFPO-DA	88.3	50-200	7/13/22 2:39
M6PFDA	104	50-200	7/13/22 2:39
M3PFBS	120	50-200	7/13/22 2:39
M7PFUnA	100	50-200	7/13/22 2:39
M2-6:2FTS	162	50-200	7/13/22 2:39
M5PFPeA	156	50-200	7/13/22 2:39
M5PFHxA	100	50-200	7/13/22 2:39
M3PFHxS	118	50-200	7/13/22 2:39
M4PFHpA	94.1	50-200	7/13/22 2:39
M8PFOA	93.5	50-200	7/13/22 2:39
M8PFOS	116	50-200	7/13/22 2:39
M9PFNA	70.4	50-200	7/13/22 2:39
MPFDoA	81.8	50-200	7/13/22 2:39

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: SS-5A(6'')

Sampled: 6/15/2022 09:05

Sample ID: 22F1159-24

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	13	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
Perfluorobutanesulfonic acid (PFBS)	3.9	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
Perfluoropentanoic acid (PFPeA)	30	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
Perfluorohexanoic acid (PFHxA)	20	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	2.0	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
Perfluorodecanoic acid (PFDA)	3.1	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
Perfluorohexanesulfonic acid (PFHxS)	25	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	4.1	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.4	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
Perfluoroheptanoic acid (PFHpA)	11	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
Perfluorooctanoic acid (PFOA)	15	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
Perfluorooctanesulfonic acid (PFOS)	73	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL
Perfluorononanoic acid (PFNA)	4.7	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 2:46	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	152	50-200		7/13/22 2:46
M2-8:2FTS	201 *	50-200	Z-01b	7/13/22 2:46
MPFBA	92.7	50-200		7/13/22 2:46
M3HFPO-DA	82.6	50-200		7/13/22 2:46
M6PFDA	86.9	50-200		7/13/22 2:46
M3PFBS	107	50-200		7/13/22 2:46
M7PFUnA	100	50-200		7/13/22 2:46
M2-6:2FTS	197	50-200		7/13/22 2:46
M5PFPeA	153	50-200		7/13/22 2:46
M5PFHxA	103	50-200		7/13/22 2:46
M3PFHxS	106	50-200		7/13/22 2:46
M4PFHpA	97.3	50-200		7/13/22 2:46
M8PFOA	97.4	50-200		7/13/22 2:46
M8PFOS	97.3	50-200		7/13/22 2:46
M9PFNA	68.8	50-200		7/13/22 2:46
MPFDoA	88.6	50-200		7/13/22 2:46

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: SS-5A(SW)

Sampled: 6/15/2022 09:10

Sample ID: 22F1159-25

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	13	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
Perfluorobutanesulfonic acid (PFBS)	3.8	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
Perfluoropentanoic acid (PFPeA)	30	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
Perfluorohexanoic acid (PFHxA)	21	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	2.3	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
Perfluorodecanoic acid (PFDA)	3.2	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
Perfluorohexanesulfonic acid (PFHxS)	25	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	4.1	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.3	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
Perfluoroheptanoic acid (PFHpA)	11	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
Perfluorooctanoic acid (PFOA)	15	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
Perfluorooctanesulfonic acid (PFOS)	73	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL
Perfluorononanoic acid (PFNA)	4.4	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 2:54	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	163	50-200		7/13/22 2:54
M2-8:2FTS	204 *	50-200	S-29	7/13/22 2:54
MPFBA	101	50-200		7/13/22 2:54
M3HFPO-DA	88.8	50-200		7/13/22 2:54
M6PFDA	80.5	50-200		7/13/22 2:54
M3PFBS	121	50-200		7/13/22 2:54
M7PFUnA	98.2	50-200		7/13/22 2:54
M2-6:2FTS	196	50-200		7/13/22 2:54
M5PFPeA	171	50-200		7/13/22 2:54
M5PFHxA	108	50-200		7/13/22 2:54
M3PFHxS	116	50-200		7/13/22 2:54
M4PFHpA	104	50-200		7/13/22 2:54
M8PFOA	93.1	50-200		7/13/22 2:54
M8PFOS	104	50-200		7/13/22 2:54
M9PFNA	72.8	50-200		7/13/22 2:54
MPFDoA	98.2	50-200		7/13/22 2:54

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: SS-3A(6'')

Sampled: 6/15/2022 09:25

Sample ID: 22F1159-26

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	12	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
Perfluorobutanesulfonic acid (PFBS)	2.9	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
Perfluoropentanoic acid (PFPeA)	21	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
Perfluorohexanoic acid (PFHxA)	13	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
Perfluorohexanesulfonic acid (PFHxS)	19	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
Perfluoroheptanoic acid (PFHpA)	6.0	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
Perfluorooctanoic acid (PFOA)	9.1	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
Perfluorooctanesulfonic acid (PFOS)	32	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL
Perfluorononanoic acid (PFNA)	2.1	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:01	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	141	50-200	7/13/22 3:01
M2-8:2FTS	148	50-200	7/13/22 3:01
MPFBA	104	50-200	7/13/22 3:01
M3HFPO-DA	95.3	50-200	7/13/22 3:01
M6PFDA	96.3	50-200	7/13/22 3:01
M3PFBS	126	50-200	7/13/22 3:01
M7PFUnA	92.3	50-200	7/13/22 3:01
M2-6:2FTS	153	50-200	7/13/22 3:01
M5PFPeA	147	50-200	7/13/22 3:01
M5PFHxA	105	50-200	7/13/22 3:01
M3PFHxS	120	50-200	7/13/22 3:01
M4PFHpA	106	50-200	7/13/22 3:01
M8PFOA	104	50-200	7/13/22 3:01
M8PFOS	103	50-200	7/13/22 3:01
M9PFNA	74.0	50-200	7/13/22 3:01
MPFDoA	82.8	50-200	7/13/22 3:01

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: SS-3A(SW)

Sampled: 6/15/2022 09:30

Sample ID: 22F1159-27

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	13	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
Perfluorobutanoic acid (PFBA)	12	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL
Perfluorobutanesulfonic acid (PFBS)	3.4	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
Perfluorobutanesulfonic acid (PFBS)	3.1	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL
Perfluoropentanoic acid (PFPeA)	23	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
Perfluoropentanoic acid (PFPeA)	22	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL
Perfluorohexanoic acid (PFHxA)	15	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
Perfluorohexanoic acid (PFHxA)	14	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL
Perfluorohexanesulfonic acid (PFHxS)	23	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
Perfluorohexanesulfonic acid (PFHxS)	22	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
Perfluoropentanesulfonic acid (PFPeS)	1.9	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: SS-3A(SW)

Sampled: 6/15/2022 09:30

Sample ID: 22F1159-27

Sample Matrix: Drinking Water

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
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL
Perfluoroheptanoic acid (PFHpA)	8.0	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
Perfluoroheptanoic acid (PFHpA)	6.2	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL
Perfluorooctanoic acid (PFOA)	11	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
Perfluorooctanoic acid (PFOA)	10	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL
Perfluorooctanesulfonic acid (PFOS)	37	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
Perfluorooctanesulfonic acid (PFOS)	38	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL
Perfluorononanoic acid (PFNA)	1.9	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:18	BLH
Perfluorononanoic acid (PFNA)	2.3	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:08	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	108	50-200	7/17/22 16:18
M2-4:2FTS	103	50-200	7/13/22 3:08
M2-8:2FTS	202 *	50-200	7/17/22 16:18
M2-8:2FTS	127	50-200	7/13/22 3:08
MPFBA	104	50-200	7/17/22 16:18
MPFBA	95.8	50-200	7/13/22 3:08
M3HFPO-DA	75.0	50-200	7/17/22 16:18
M3HFPO-DA	102	50-200	7/13/22 3:08
M6PFDA	90.3	50-200	7/17/22 16:18
M6PFDA	86.3	50-200	7/13/22 3:08
M3PFBS	91.2	50-200	7/17/22 16:18
M3PFBS	111	50-200	7/13/22 3:08
M7PFUnA	85.1	50-200	7/17/22 16:18
M7PFUnA	89.0	50-200	7/13/22 3:08
M2-6:2FTS	177	50-200	7/17/22 16:18
M2-6:2FTS	126	50-200	7/13/22 3:08
M5PFPeA	132	50-200	7/17/22 16:18
M5PFPeA	116	50-200	7/13/22 3:08
M5PFHxA	90.1	50-200	7/17/22 16:18
M5PFHxA	101	50-200	7/13/22 3:08
M3PFHxS	96.1	50-200	7/17/22 16:18
M3PFHxS	101	50-200	7/13/22 3:08
M4PFHpA	91.1	50-200	7/17/22 16:18
M4PFHpA	102	50-200	7/13/22 3:08
M8PFOA	97.9	50-200	7/17/22 16:18
M8PFOA	102	50-200	7/13/22 3:08
M8PFOS	98.3	50-200	7/17/22 16:18
M8PFOS	96.4	50-200	7/13/22 3:08
M9PFNA	97.4	50-200	7/17/22 16:18
M9PFNA	76.4	50-200	7/13/22 3:08
MPFDoA	94.3	50-200	7/17/22 16:18
MPFDoA	86.5	50-200	7/13/22 3:08

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: SS-2A(6'')

Sampled: 6/15/2022 09:35

Sample ID: 22F1159-28

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	12	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
Perfluorobutanesulfonic acid (PFBS)	2.9	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
Perfluoropentanoic acid (PFPeA)	22	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
Perfluorohexanoic acid (PFHxA)	14	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
Perfluorohexanesulfonic acid (PFHxS)	21	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
Perfluoropetanesulfonic acid (PFPeS)	1.7	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
Perfluoroheptanoic acid (PFHpA)	6.4	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
Perfluorooctanoic acid (PFOA)	9.1	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
Perfluorooctanesulfonic acid (PFOS)	25	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL
Perfluorononanoic acid (PFNA)	1.8	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:22	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	116	50-200	7/13/22 3:22
M2-8:2FTS	126	50-200	7/13/22 3:22
MPFBA	98.4	50-200	7/13/22 3:22
M3HFPO-DA	80.3	50-200	7/13/22 3:22
M6PFDA	84.5	50-200	7/13/22 3:22
M3PFBS	120	50-200	7/13/22 3:22
M7PFUnA	91.1	50-200	7/13/22 3:22
M2-6:2FTS	127	50-200	7/13/22 3:22
M5PFPeA	134	50-200	7/13/22 3:22
M5PFHxA	90.7	50-200	7/13/22 3:22
M3PFHxS	115	50-200	7/13/22 3:22
M4PFHpA	89.7	50-200	7/13/22 3:22
M8PFOA	88.2	50-200	7/13/22 3:22
M8PFOS	101	50-200	7/13/22 3:22
M9PFNA	74.6	50-200	7/13/22 3:22
MPFDoA	84.0	50-200	7/13/22 3:22

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: SS-2A(SW)

Sampled: 6/15/2022 09:40

Sample ID: 22F1159-29

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	11	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
Perfluorobutanesulfonic acid (PFBS)	2.8	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
Perfluoropentanoic acid (PFPeA)	21	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
Perfluorohexanoic acid (PFHxA)	13	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
Perfluorohexanesulfonic acid (PFHxS)	21	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
Perfluoropentanesulfonic acid (PFPeS)	1.7	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
Perfluoroheptanoic acid (PFHpA)	6.4	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
Perfluorooctanoic acid (PFOA)	9.0	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
Perfluorooctanesulfonic acid (PFOS)	27	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:30	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	122	50-200	7/13/22 3:30
M2-8:2FTS	123	50-200	7/13/22 3:30
MPFBA	100	50-200	7/13/22 3:30
M3HFPO-DA	90.2	50-200	7/13/22 3:30
M6PFDA	90.0	50-200	7/13/22 3:30
M3PFBS	127	50-200	7/13/22 3:30
M7PFUnA	94.5	50-200	7/13/22 3:30
M2-6:2FTS	139	50-200	7/13/22 3:30
M5PFPeA	136	50-200	7/13/22 3:30
M5PFHxA	99.4	50-200	7/13/22 3:30
M3PFHxS	116	50-200	7/13/22 3:30
M4PFHpA	95.9	50-200	7/13/22 3:30
M8PFOA	92.2	50-200	7/13/22 3:30
M8PFOS	104	50-200	7/13/22 3:30
M9PFNA	73.2	50-200	7/13/22 3:30
MPFDoA	88.6	50-200	7/13/22 3:30

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: SS-1A(6'')

Sampled: 6/15/2022 09:45

Sample ID: 22F1159-30

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	8.1	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
Perfluorobutanesulfonic acid (PFBS)	4.6	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
Perfluoropentanoic acid (PFPeA)	15	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
Perfluorohexanoic acid (PFHxA)	11	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
Perfluorohexanesulfonic acid (PFHxS)	16	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
Perfluoroheptanoic acid (PFHpA)	5.6	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
Perfluorooctanoic acid (PFOA)	7.2	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
Perfluorooctanesulfonic acid (PFOS)	17	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	7/13/22	7/17/22 16:26	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	100	50-200	7/17/22 16:26
M2-8:2FTS	163	50-200	7/17/22 16:26
MPFBA	80.4	50-200	7/17/22 16:26
M3HFPO-DA	72.7	50-200	7/17/22 16:26
M6PFDA	64.1	50-200	7/17/22 16:26
M3PFBS	82.9	50-200	7/17/22 16:26
M7PFUnA	65.2	50-200	7/17/22 16:26
M2-6:2FTS	145	50-200	7/17/22 16:26
M5PFPeA	108	50-200	7/17/22 16:26
M5PFHxA	71.7	50-200	7/17/22 16:26
M3PFHxS	87.6	50-200	7/17/22 16:26
M4PFHpA	70.5	50-200	7/17/22 16:26
M8PFOA	68.9	50-200	7/17/22 16:26
M8PFOS	83.6	50-200	7/17/22 16:26
M9PFNA	73.5	50-200	7/17/22 16:26
MPFDoA	63.1	50-200	7/17/22 16:26

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: SS-1A(SW)

Sampled: 6/15/2022 09:50

Sample ID: 22F1159-31

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	6.6	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
Perfluorobutanesulfonic acid (PFBS)	3.6	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
Perfluoropentanoic acid (PFPeA)	14	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
Perfluorohexanoic acid (PFHxA)	9.1	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
Perfluorohexanesulfonic acid (PFHxS)	13	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
Perfluoroheptanoic acid (PFHpA)	4.1	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
Perfluorooctanoic acid (PFOA)	5.9	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
Perfluorooctanesulfonic acid (PFOS)	15	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	7/8/22	7/13/22 3:44	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	120	50-200	7/13/22 3:44
M2-8:2FTS	138	50-200	7/13/22 3:44
MPFBA	97.9	50-200	7/13/22 3:44
M3HFPO-DA	95.2	50-200	7/13/22 3:44
M6PFDA	91.3	50-200	7/13/22 3:44
M3PFBS	116	50-200	7/13/22 3:44
M7PFUnA	93.1	50-200	7/13/22 3:44
M2-6:2FTS	142	50-200	7/13/22 3:44
M5PFPeA	138	50-200	7/13/22 3:44
M5PFHxA	104	50-200	7/13/22 3:44
M3PFHxS	116	50-200	7/13/22 3:44
M4PFHpA	101	50-200	7/13/22 3:44
M8PFOA	98.2	50-200	7/13/22 3:44
M8PFOS	101	50-200	7/13/22 3:44
M9PFNA	78.4	50-200	7/13/22 3:44
MPFDoA	96.4	50-200	7/13/22 3:44

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: RP-1A(6")

Sampled: 6/15/2022 10:10

Sample ID: 22F1159-32

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	37	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
Perfluorobutanesulfonic acid (PFBS)	20	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
Perfluoropentanoic acid (PFPeA)	110	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
Perfluorohexanoic acid (PFHxA)	86	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	7.8	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
Perfluorodecanoic acid (PFDA)	8.9	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
Perfluoroheptanesulfonic acid (PFHpS)	11	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
Perfluorohexanesulfonic acid (PFHxS)	140	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	64	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
Perfluoropentanesulfonic acid (PFPeS)	19	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
Perfluoroheptanoic acid (PFHpA)	44	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
Perfluorooctanoic acid (PFOA)	44	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
Perfluorooctanesulfonic acid (PFOS)	570	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH
Perfluorononanoic acid (PFNA)	14	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:33	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	132	50-200		7/17/22 16:33
M2-8:2FTS	207 *	50-200	Z-01a	7/17/22 16:33
MPFBA	90.8	50-200		7/17/22 16:33
M3HFPO-DA	71.6	50-200		7/17/22 16:33
M6PFDA	82.2	50-200		7/17/22 16:33
M3PFBS	89.4	50-200		7/17/22 16:33
M7PFUnA	85.1	50-200		7/17/22 16:33
M2-6:2FTS	227 *	50-200	Z-01a	7/17/22 16:33
M5PFPeA	128	50-200		7/17/22 16:33
M5PFHxA	86.1	50-200		7/17/22 16:33
M3PFHxS	92.3	50-200		7/17/22 16:33
M4PFHpA	87.1	50-200		7/17/22 16:33
M8PFOA	86.2	50-200		7/17/22 16:33
M8PFOS	88.4	50-200		7/17/22 16:33
M9PFNA	84.6	50-200		7/17/22 16:33
MPFDoA	86.8	50-200		7/17/22 16:33

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: RP-1A(SW)

Sampled: 6/15/2022 10:15

Sample ID: 22F1159-33

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	32	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
Perfluorobutanesulfonic acid (PFBS)	16	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
Perfluoropentanoic acid (PFPeA)	87	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
Perfluorohexanoic acid (PFHxA)	71	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	5.0	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
Perfluorodecanoic acid (PFDA)	7.0	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
Perfluoroheptanesulfonic acid (PFHpS)	9.2	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
Perfluorohexanesulfonic acid (PFHxS)	110	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	60	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
Perfluoropentanesulfonic acid (PFPeS)	16	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
Perfluoroheptanoic acid (PFHpA)	36	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
Perfluorooctanoic acid (PFOA)	35	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
Perfluorooctanesulfonic acid (PFOS)	490	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL
Perfluorononanoic acid (PFNA)	13	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 3:58	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	161	50-200	7/13/22 3:58
M2-8:2FTS	181	50-200	7/13/22 3:58
MPFBA	104	50-200	7/13/22 3:58
M3HFPO-DA	97.0	50-200	7/13/22 3:58
M6PFDA	97.2	50-200	7/13/22 3:58
M3PFBS	128	50-200	7/13/22 3:58
M7PFUnA	100	50-200	7/13/22 3:58
M2-6:2FTS	194	50-200	7/13/22 3:58
M5PFPeA	168	50-200	7/13/22 3:58
M5PFHxA	112	50-200	7/13/22 3:58
M3PFHxS	129	50-200	7/13/22 3:58
M4PFHpA	108	50-200	7/13/22 3:58
M8PFOA	104	50-200	7/13/22 3:58
M8PFOS	109	50-200	7/13/22 3:58
M9PFNA	69.9	50-200	7/13/22 3:58
MPFDoA	91.8	50-200	7/13/22 3:58

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: RP-2A(6'')

Sampled: 6/15/2022 10:35

Sample ID: 22F1159-34

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	34	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
Perfluorobutanesulfonic acid (PFBS)	17	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
Perfluoropentanoic acid (PFPeA)	92	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
Perfluorohexanoic acid (PFHxA)	76	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	5.9	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
Perfluorodecanoic acid (PFDA)	5.4	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
Perfluoroheptanesulfonic acid (PFHpS)	9.8	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
Perfluorohexanesulfonic acid (PFHxS)	120	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	58	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
Perfluoropentanesulfonic acid (PFPeS)	17	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
Perfluoroheptanoic acid (PFHpA)	37	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
Perfluorooctanoic acid (PFOA)	39	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
Perfluorooctanesulfonic acid (PFOS)	520	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL
Perfluorononanoic acid (PFNA)	12	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:06	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	136	50-200	7/13/22 4:06
M2-8:2FTS	180	50-200	7/13/22 4:06
MPFBA	91.6	50-200	7/13/22 4:06
M3HFPO-DA	73.6	50-200	7/13/22 4:06
M6PFDA	98.5	50-200	7/13/22 4:06
M3PFBS	110	50-200	7/13/22 4:06
M7PFUnA	91.4	50-200	7/13/22 4:06
M2-6:2FTS	174	50-200	7/13/22 4:06
M5PFPeA	133	50-200	7/13/22 4:06
M5PFHxA	93.8	50-200	7/13/22 4:06
M3PFHxS	107	50-200	7/13/22 4:06
M4PFHpA	91.8	50-200	7/13/22 4:06
M8PFOA	86.2	50-200	7/13/22 4:06
M8PFOS	88.5	50-200	7/13/22 4:06
M9PFNA	63.4	50-200	7/13/22 4:06
MPFDoA	88.1	50-200	7/13/22 4:06

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: RP-2A(SW)

Sampled: 6/15/2022 10:40

Sample ID: 22F1159-35

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	38	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
Perfluorobutanesulfonic acid (PFBS)	20	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
Perfluoropentanoic acid (PFPeA)	110	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
Perfluorohexanoic acid (PFHxA)	87	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	10	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
Perfluorodecanoic acid (PFDA)	9.4	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
Perfluoroheptanesulfonic acid (PFHpS)	12	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
Perfluorohexanesulfonic acid (PFHxS)	140	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	69	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
Perfluoropentanesulfonic acid (PFPeS)	20	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
Perfluoroheptanoic acid (PFHpA)	43	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
Perfluorooctanoic acid (PFOA)	42	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
Perfluorooctanesulfonic acid (PFOS)	590	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH
Perfluorononanoic acid (PFNA)	13	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:47	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	140	50-200		7/17/22 16:47
M2-8:2FTS	210 *	50-200	Z-01a	7/17/22 16:47
MPFBA	94.4	50-200		7/17/22 16:47
M3HFPO-DA	84.7	50-200		7/17/22 16:47
M6PFDA	84.5	50-200		7/17/22 16:47
M3PFBS	96.3	50-200		7/17/22 16:47
M7PFUnA	91.8	50-200		7/17/22 16:47
M2-6:2FTS	212 *	50-200	Z-01a	7/17/22 16:47
M5PFPeA	133	50-200		7/17/22 16:47
M5PFHxA	91.8	50-200		7/17/22 16:47
M3PFHxS	96.7	50-200		7/17/22 16:47
M4PFHpA	91.1	50-200		7/17/22 16:47
M8PFOA	93.9	50-200		7/17/22 16:47
M8PFOS	86.4	50-200		7/17/22 16:47
M9PFNA	82.1	50-200		7/17/22 16:47
MPFDoA	90.2	50-200		7/17/22 16:47

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: RPT-1A(6'')

Sampled: 6/15/2022 10:45

Sample ID: 22F1159-36

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	17	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
Perfluorobutanoic acid (PFBA)	18	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
Perfluorobutanesulfonic acid (PFBS)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
Perfluoropentanoic acid (PFPeA)	20	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
Perfluoropentanoic acid (PFPeA)	26	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
Perfluorohexanoic acid (PFHxA)	5.9	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
Perfluorohexanoic acid (PFHxA)	7.2	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: RPT-1A(6'')

Sampled: 6/15/2022 10:45

Sample ID: 22F1159-36

Sample Matrix: Drinking Water

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
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
Perfluoroheptanoic acid (PFHpA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
Perfluoroheptanoic acid (PFHpA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
Perfluorooctanoic acid (PFOA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
Perfluorooctanoic acid (PFOA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
Perfluorooctanesulfonic acid (PFOS)	8.6	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
Perfluorooctanesulfonic acid (PFOS)	6.4	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	7/13/22	7/17/22 16:54	BLH
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:20	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	103	50-200	7/17/22 16:54
M2-4:2FTS	125	50-200	7/13/22 4:20
M2-8:2FTS	178	50-200	7/17/22 16:54
M2-8:2FTS	105	50-200	7/13/22 4:20
MPFBA	107	50-200	7/13/22 4:20
MPFBA	98.0	50-200	7/17/22 16:54
M3HFPO-DA	77.4	50-200	7/17/22 16:54
M3HFPO-DA	131	50-200	7/13/22 4:20
M6PFDA	91.4	50-200	7/17/22 16:54
M6PFDA	102	50-200	7/13/22 4:20
M3PFBS	104	50-200	7/17/22 16:54
M3PFBS	144	50-200	7/13/22 4:20
M7PFUnA	88.2	50-200	7/17/22 16:54
M7PFUnA	112	50-200	7/13/22 4:20
M2-6:2FTS	202 *	50-200	Z-01 7/17/22 16:54
M2-6:2FTS	122	50-200	7/13/22 4:20
M5PFPeA	121	50-200	7/17/22 16:54
M5PFPeA	151	50-200	7/13/22 4:20
M5PFHxA	89.6	50-200	7/17/22 16:54
M5PFHxA	131	50-200	7/13/22 4:20
M3PFHxS	109	50-200	7/17/22 16:54
M3PFHxS	122	50-200	7/13/22 4:20
M4PFHpA	93.4	50-200	7/17/22 16:54
M4PFHpA	120	50-200	7/13/22 4:20
M8PFOA	93.4	50-200	7/17/22 16:54
M8PFOA	102	50-200	7/13/22 4:20
M8PFOS	107	50-200	7/17/22 16:54
M8PFOS	112	50-200	7/13/22 4:20
M9PFNA	76.3	50-200	7/13/22 4:20
M9PFNA	97.2	50-200	7/17/22 16:54
MPFDoA	91.0	50-200	7/13/22 4:20
MPFDoA	93.2	50-200	7/17/22 16:54

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22F1159

Date Received: 6/17/2022

Field Sample #: RPT-1A(SW)

Sampled: 6/15/2022 10:50

Sample ID: 22F1159-37

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	17	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
Perfluoropentanoic acid (PFPeA)	22	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
Perfluorohexanoic acid (PFHxA)	6.1	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
11Cl-PF3OUdS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
9Cl-PF3ONS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
Perfluorooctanoic acid (PFOA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
Perfluorooctanesulfonic acid (PFOS)	7.0	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	7/8/22	7/13/22 4:27	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	132	50-200	7/13/22 4:27
M2-8:2FTS	123	50-200	7/13/22 4:27
MPFBA	112	50-200	7/13/22 4:27
M3HFPO-DA	135	50-200	7/13/22 4:27
M6PFDA	110	50-200	7/13/22 4:27
M3PFBS	161	50-200	7/13/22 4:27
M7PFUnA	122	50-200	7/13/22 4:27
M2-6:2FTS	120	50-200	7/13/22 4:27
M5PFPeA	153	50-200	7/13/22 4:27
M5PFHxA	136	50-200	7/13/22 4:27
M3PFHxS	149	50-200	7/13/22 4:27
M4PFHpA	132	50-200	7/13/22 4:27
M8PFOA	110	50-200	7/13/22 4:27
M8PFOS	115	50-200	7/13/22 4:27
M9PFNA	81.2	50-200	7/13/22 4:27
MPFDoA	109	50-200	7/13/22 4:27

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

Sample Extraction Data

Prep Method: EPA 533-EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22F1159-01 [WL-3A-B]	B311032	285	1.00	06/24/22
22F1159-02 [WL-3A-T]	B311032	295	1.00	06/24/22
22F1159-03 [WL-2A-M]	B311032	282	1.00	06/24/22
22F1159-05 [WL-1A-B]	B311032	297	1.00	06/24/22
22F1159-06 [WL-1A-T]	B311032	291	1.00	06/24/22
22F1159-07 [WL-6A-B]	B311032	297	1.00	06/24/22
22F1159-08 [WL-6A-M]	B311032	295	1.00	06/24/22
22F1159-09 [WL-6A-T]	B311032	292	1.00	06/24/22
22F1159-10 [WL-5A-B]	B311032	289	1.00	06/24/22
22F1159-11 [WL-5A-M]	B311032	298	1.00	06/24/22
22F1159-12 [WL-5A-T]	B311032	297	1.00	06/24/22
22F1159-14 [MC-3A(SW)]	B311032	284	1.00	06/24/22
22F1159-15 [MC-3A(6")]	B311032	290	1.00	06/24/22
22F1159-16 [MC-4A(6")]	B311032	286	1.00	06/24/22
22F1159-17 [MC-4A(SW)]	B311032	289	1.00	06/24/22

Prep Method: EPA 533-EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22F1159-18 [MC-2A(6")]	B311289	282	1.00	07/08/22
22F1159-19 [MC-2A(SW)]	B311289	288	1.00	07/08/22
22F1159-20 [MC-1A(6")]	B311289	289	1.00	07/08/22
22F1159-21 [MC-1A(SW)]	B311289	294	1.00	07/08/22
22F1159-22 [SS-6A(6")]	B311289	282	1.00	07/08/22
22F1159-23 [SS-6A(SW)]	B311289	287	1.00	07/08/22
22F1159-24 [SS-5A(6")]	B311289	283	1.00	07/08/22
22F1159-25 [SS-5A(SW)]	B311289	288	1.00	07/08/22
22F1159-26 [SS-3A(6")]	B311289	283	1.00	07/08/22
22F1159-27 [SS-3A(SW)]	B311289	282	1.00	07/08/22
22F1159-28 [SS-2A(6")]	B311289	287	1.00	07/08/22
22F1159-29 [SS-2A(SW)]	B311289	287	1.00	07/08/22
22F1159-31 [SS-1A(SW)]	B311289	279	1.00	07/08/22
22F1159-33 [RP-1A(SW)]	B311289	299	1.00	07/08/22
22F1159-34 [RP-2A(6")]	B311289	298	1.00	07/08/22
22F1159-36 [RPT-1A(6")]	B311289	294	1.00	07/08/22
22F1159-37 [RPT-1A(SW)]	B311289	292	1.00	07/08/22

Prep Method: EPA 533-EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22F1159-04RE1 [WL-4A-M]	B312205	291	1.00	07/05/22
22F1159-13RE1 [MC-1A-M]	B312205	297	1.00	07/05/22

Prep Method: EPA 533-EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22F1159-27RE1 [SS-3A(SW)]	B312869	283	1.00	07/13/22
22F1159-30RE1 [SS-1A(6")]	B312869	280	1.00	07/13/22
22F1159-32RE1 [RP-1A(6")]	B312869	292	1.00	07/13/22
22F1159-35RE1 [RP-2A(SW)]	B312869	286	1.00	07/13/22
22F1159-36RE1 [RPT-1A(6")]	B312869	287	1.00	07/13/22

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

Sample Extraction Data

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B311032 - EPA 533
Blank (B311032-BLK1)

Prepared: 06/24/22 Analyzed: 07/01/22

Perfluorobutanoic acid (PFBA)	ND	1.8	ng/L
Perfluorobutanesulfonic acid (PFBS)	ND	1.8	ng/L
Perfluoropentanoic acid (PFPeA)	ND	1.8	ng/L
Perfluorohexanoic acid (PFHxA)	ND	1.8	ng/L
11Cl-PF3OUdS (F53B Minor)	ND	1.8	ng/L
9Cl-PF3ONS (F53B Major)	ND	1.8	ng/L
4,8-dioxo-3H-perfluorononanoic acid (ADONA)	ND	1.8	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8	ng/L
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8	ng/L
Perfluorodecanoic acid (PFDA)	ND	1.8	ng/L
Perfluorododecanoic acid (PFDoA)	ND	1.8	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8	ng/L
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8	ng/L
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8	ng/L
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8	ng/L
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8	ng/L
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8	ng/L
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8	ng/L
Perfluoroundecanoic acid (PFUnA)	ND	1.8	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8	ng/L
Perfluoroheptanoic acid (PFHpA)	ND	1.8	ng/L
Perfluorooctanoic acid (PFOA)	ND	1.8	ng/L
Perfluorooctanesulfonic acid (PFOS)	ND	1.8	ng/L
Perfluorononanoic acid (PFNA)	ND	1.8	ng/L

Surrogate: M2-4:2FTS	31.4		ng/L	32.9	95.4	50-200
Surrogate: M2-8:2FTS	35.8		ng/L	33.7	106	50-200
Surrogate: MPFBA	38.0		ng/L	35.1	108	50-200
Surrogate: M3HFPO-DA	27.8		ng/L	35.1	79.2	50-200
Surrogate: M6PFDA	38.3		ng/L	35.1	109	50-200
Surrogate: M3PFBS	35.9		ng/L	32.7	110	50-200
Surrogate: M7PFUnA	36.2		ng/L	35.1	103	50-200
Surrogate: M2-6:2FTS	36.2		ng/L	33.4	108	50-200
Surrogate: M5PFPeA	38.1		ng/L	35.1	109	50-200
Surrogate: M5PFHxA	33.9		ng/L	35.1	96.6	50-200
Surrogate: M3PFHxS	40.1		ng/L	33.3	120	50-200
Surrogate: M4PFHpA	37.4		ng/L	35.1	107	50-200
Surrogate: M8PFOA	34.2		ng/L	35.1	97.5	50-200
Surrogate: M8PFOS	37.3		ng/L	33.7	111	50-200
Surrogate: M9PFNA	34.6		ng/L	35.1	98.4	50-200
Surrogate: MPFDoA	35.0		ng/L	35.1	99.8	50-200

LCS (B311032-BS1)

Prepared: 06/24/22 Analyzed: 07/01/22

Perfluorobutanoic acid (PFBA)	17.7	1.9	ng/L	18.6	94.9	70-130
Perfluorobutanesulfonic acid (PFBS)	15.4	1.9	ng/L	16.5	93.6	70-130
Perfluoropentanoic acid (PFPeA)	17.5	1.9	ng/L	18.6	94.2	70-130
Perfluorohexanoic acid (PFHxA)	17.4	1.9	ng/L	18.6	93.7	70-130
11Cl-PF3OUdS (F53B Minor)	13.6	1.9	ng/L	17.5	77.8	70-130

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B311032 - EPA 533
LCS (B311032-BS1)

Prepared: 06/24/22 Analyzed: 07/01/22

9Cl-PF3ONS (F53B Major)	13.9	1.9		ng/L	17.3		80.1	70-130			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	14.0	1.9		ng/L	17.5		79.6	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	14.3	1.9		ng/L	18.6		76.8	70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	17.0	1.9		ng/L	17.9		95.2	70-130			
Perfluorodecanoic acid (PFDA)	15.9	1.9		ng/L	18.6		85.2	70-130			
Perfluorododecanoic acid (PFDoA)	19.8	1.9		ng/L	18.6		106	70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	16.4	1.9		ng/L	16.6		98.9	70-130			
Perfluoroheptanesulfonic acid (PFHpS)	15.2	1.9		ng/L	17.8		85.7	70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	16.8	1.9		ng/L	17.4		96.4	70-130			
Perfluorohexanesulfonic acid (PFHxS)	16.1	1.9		ng/L	17.0		94.5	70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	17.7	1.9		ng/L	18.6		95.1	70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	15.4	1.9		ng/L	18.6		82.8	70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	15.2	1.9		ng/L	17.7		85.8	70-130			
Perfluoropentanesulfonic acid (PFPeS)	16.1	1.9		ng/L	17.5		91.9	70-130			
Perfluoroundecanoic acid (PFUnA)	21.8	1.9		ng/L	18.6		117	70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	17.8	1.9		ng/L	18.6		95.5	70-130			
Perfluoroheptanoic acid (PFHpA)	15.6	1.9		ng/L	18.6		83.6	70-130			
Perfluorooctanoic acid (PFOA)	15.7	1.9		ng/L	18.6		84.5	70-130			
Perfluorooctanesulfonic acid (PFOS)	16.6	1.9		ng/L	17.2		96.3	70-130			
Perfluorononanoic acid (PFNA)	14.3	1.9		ng/L	18.6		77.0	70-130			
Surrogate: M2-4:2FTS	28.3			ng/L	34.9		81.2	50-200			
Surrogate: M2-8:2FTS	30.8			ng/L	35.7		86.3	50-200			
Surrogate: MPFBA	38.5			ng/L	37.2		103	50-200			
Surrogate: M3HFPO-DA	34.1			ng/L	37.2		91.6	50-200			
Surrogate: M6PFDA	37.7			ng/L	37.2		101	50-200			
Surrogate: M3PFBS	34.8			ng/L	34.7		100	50-200			
Surrogate: M7PFUnA	37.6			ng/L	37.2		101	50-200			
Surrogate: M2-6:2FTS	33.9			ng/L	35.4		95.8	50-200			
Surrogate: M5PFPeA	38.1			ng/L	37.2		102	50-200			
Surrogate: M5PFHxA	37.3			ng/L	37.2		100	50-200			
Surrogate: M3PFHxS	36.2			ng/L	35.3		103	50-200			
Surrogate: M4PFHpA	37.6			ng/L	37.2		101	50-200			
Surrogate: M8PFOA	38.7			ng/L	37.2		104	50-200			
Surrogate: M8PFOS	37.2			ng/L	35.7		104	50-200			
Surrogate: M9PFNA	40.1			ng/L	37.2		108	50-200			
Surrogate: MPFDoA	39.1			ng/L	37.2		105	50-200			

Batch B311289 - EPA 533
Blank (B311289-BLK1)

Prepared: 07/08/22 Analyzed: 07/13/22

Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L							
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L							
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L							
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L							

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B311289 - EPA 533
Blank (B311289-BLK1)

Prepared: 07/08/22 Analyzed: 07/13/22

Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L							
Surrogate: M2-4:2FTS	32.1			ng/L	33.8		95.0	50-200			
Surrogate: M2-8:2FTS	29.8			ng/L	34.6		86.1	50-200			
Surrogate: MPFBA	34.7			ng/L	36.0		96.4	50-200			
Surrogate: M3HFPO-DA	41.3			ng/L	36.0		115	50-200			
Surrogate: M6PFDA	34.3			ng/L	36.0		95.1	50-200			
Surrogate: M3PFBS	40.6			ng/L	33.6		121	50-200			
Surrogate: M7PFUnA	38.9			ng/L	36.0		108	50-200			
Surrogate: M2-6:2FTS	29.3			ng/L	34.3		85.4	50-200			
Surrogate: M5PFPeA	37.8			ng/L	36.0		105	50-200			
Surrogate: M5PFHxA	39.8			ng/L	36.0		111	50-200			
Surrogate: M3PFHxS	37.7			ng/L	34.1		110	50-200			
Surrogate: M4PFHpA	37.6			ng/L	36.0		104	50-200			
Surrogate: M8PFOA	36.8			ng/L	36.0		102	50-200			
Surrogate: M8PFOS	35.6			ng/L	34.5		103	50-200			
Surrogate: M9PFNA	31.7			ng/L	36.0		88.1	50-200			
Surrogate: MPFDoA	34.0			ng/L	36.0		94.4	50-200			

LCS (B311289-BS1)

Prepared: 07/08/22 Analyzed: 07/13/22

Perfluorobutanoic acid (PFBA)	9.74	1.8		ng/L	8.89		110	70-130			
Perfluorobutanesulfonic acid (PFBS)	7.98	1.8		ng/L	7.87		101	70-130			
Perfluoropentanoic acid (PFPeA)	9.29	1.8		ng/L	8.89		104	70-130			
Perfluorohexanoic acid (PFHxA)	9.55	1.8		ng/L	8.89		107	70-130			
11Cl-PF3OUdS (F53B Minor)	9.86	1.8		ng/L	8.38		118	70-130			
9Cl-PF3ONS (F53B Major)	9.15	1.8		ng/L	8.29		110	70-130			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	8.53	1.8		ng/L	8.38		102	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	9.48	1.8		ng/L	8.89		107	70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	10.0	1.8		ng/L	8.54		117	70-130			
Perfluorodecanoic acid (PFDA)	8.66	1.8		ng/L	8.89		97.4	70-130			
Perfluorododecanoic acid (PFDoA)	9.62	1.8		ng/L	8.89		108	70-130			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B311289 - EPA 533
LCS (B311289-BS1)

Prepared: 07/08/22 Analyzed: 07/13/22

Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	8.22	1.8		ng/L	7.91		104	70-130			
Perfluoroheptanesulfonic acid (PFHpS)	8.79	1.8		ng/L	8.49		104	70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	8.61	1.8		ng/L	8.31		104	70-130			
Perfluorohexanesulfonic acid (PFHxS)	8.19	1.8		ng/L	8.14		101	70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	9.11	1.8		ng/L	8.89		102	70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	9.50	1.8		ng/L	8.89		107	70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	8.87	1.8		ng/L	8.45		105	70-130			
Perfluoropetanesulfonic acid (PFPeS)	9.09	1.8		ng/L	8.36		109	70-130			
Perfluoroundecanoic acid (PFUnA)	9.35	1.8		ng/L	8.89		105	70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.25	1.8		ng/L	8.89		92.8	70-130			
Perfluoroheptanoic acid (PFHpA)	9.10	1.8		ng/L	8.89		102	70-130			
Perfluorooctanoic acid (PFOA)	9.28	1.8		ng/L	8.89		104	70-130			
Perfluorooctanesulfonic acid (PFOS)	8.29	1.8		ng/L	8.22		101	70-130			
Perfluorononanoic acid (PFNA)	11.1	1.8		ng/L	8.89		125	70-130			
Surrogate: M2-4:2FTS	34.5			ng/L	33.4		104	50-200			
Surrogate: M2-8:2FTS	31.9			ng/L	34.1		93.4	50-200			
Surrogate: MPFBA	38.9			ng/L	35.6		109	50-200			
Surrogate: M3HFPO-DA	43.7			ng/L	35.6		123	50-200			
Surrogate: M6PFDA	38.8			ng/L	35.6		109	50-200			
Surrogate: M3PFBS	44.5			ng/L	33.1		134	50-200			
Surrogate: M7PFUnA	39.1			ng/L	35.6		110	50-200			
Surrogate: M2-6:2FTS	32.0			ng/L	33.8		94.5	50-200			
Surrogate: M5PFPeA	42.3			ng/L	35.6		119	50-200			
Surrogate: M5PFHxA	42.8			ng/L	35.6		120	50-200			
Surrogate: M3PFHxS	43.4			ng/L	33.7		129	50-200			
Surrogate: M4PFHpA	42.1			ng/L	35.6		118	50-200			
Surrogate: M8PFOA	37.5			ng/L	35.6		105	50-200			
Surrogate: M8PFOS	36.7			ng/L	34.1		108	50-200			
Surrogate: M9PFNA	32.5			ng/L	35.6		91.5	50-200			
Surrogate: MPFDoA	37.3			ng/L	35.6		105	50-200			

LCS Dup (B311289-BS1)

Prepared: 07/08/22 Analyzed: 07/13/22

Perfluorobutanoic acid (PFBA)	10.4	1.8		ng/L	9.13		114	70-130	7.00	30	
Perfluorobutanesulfonic acid (PFBS)	9.23	1.8		ng/L	8.08		114	70-130	14.6	30	
Perfluoropentanoic acid (PFPeA)	10.3	1.8		ng/L	9.13		113	70-130	10.4	30	
Perfluorohexanoic acid (PFHxA)	10.6	1.8		ng/L	9.13		116	70-130	10.1	30	
11Cl-PF3OUdS (F53B Minor)	9.53	1.8		ng/L	8.60		111	70-130	3.49	30	
9Cl-PF3ONS (F53B Major)	9.36	1.8		ng/L	8.51		110	70-130	2.27	30	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	9.40	1.8		ng/L	8.60		109	70-130	9.67	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	10.5	1.8		ng/L	9.13		115	70-130	10.3	30	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	9.21	1.8		ng/L	8.76		105	70-130	8.37	30	
Perfluorodecanoic acid (PFDA)	8.94	1.8		ng/L	9.13		98.0	70-130	3.15	30	
Perfluorododecanoic acid (PFDoA)	9.96	1.8		ng/L	9.13		109	70-130	3.47	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	8.99	1.8		ng/L	8.12		111	70-130	8.93	30	
Perfluoroheptanesulfonic acid (PFHpS)	9.47	1.8		ng/L	8.72		109	70-130	7.50	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	9.57	1.8		ng/L	8.53		112	70-130	10.6	30	
Perfluorohexanesulfonic acid (PFHxS)	8.32	1.8		ng/L	8.35		99.7	70-130	1.66	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	10.1	1.8		ng/L	9.13		111	70-130	10.3	30	

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B311289 - EPA 533
LCS Dup (B311289-BSD1)

Prepared: 07/08/22 Analyzed: 07/13/22

Perfluoro-5-oxahexanoic acid (PFMBA)	10.6	1.8		ng/L	9.13		117	70-130	11.3	30	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	8.81	1.8		ng/L	8.67		102	70-130	0.755	30	
Perfluoropentanesulfonic acid (PFPeS)	9.91	1.8		ng/L	8.58		116	70-130	8.63	30	
Perfluoroundecanoic acid (PFUnA)	9.12	1.8		ng/L	9.13		99.9	70-130	2.49	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	9.23	1.8		ng/L	9.13		101	70-130	11.2	30	
Perfluoroheptanoic acid (PFHpA)	9.80	1.8		ng/L	9.13		107	70-130	7.38	30	
Perfluorooctanoic acid (PFOA)	10.5	1.8		ng/L	9.13		115	70-130	12.4	30	
Perfluorooctanesulfonic acid (PFOS)	7.72	1.8		ng/L	8.44		91.4	70-130	7.14	30	
Perfluorononanoic acid (PFNA)	10.7	1.8		ng/L	9.13		117	70-130	3.57	30	
Surrogate: M2-4:2FTS	33.8			ng/L	34.2		98.6	50-200			
Surrogate: M2-8:2FTS	33.8			ng/L	35.0		96.5	50-200			
Surrogate: MPFBA	37.5			ng/L	36.5		103	50-200			
Surrogate: M3HFPO-DA	42.4			ng/L	36.5		116	50-200			
Surrogate: M6PFDA	35.1			ng/L	36.5		96.1	50-200			
Surrogate: M3PFBS	41.7			ng/L	34.0		122	50-200			
Surrogate: M7PFUnA	37.2			ng/L	36.5		102	50-200			
Surrogate: M2-6:2FTS	31.9			ng/L	34.7		91.8	50-200			
Surrogate: M5PFPeA	40.7			ng/L	36.5		112	50-200			
Surrogate: M5PFHxA	40.6			ng/L	36.5		111	50-200			
Surrogate: M3PFHxS	41.5			ng/L	34.6		120	50-200			
Surrogate: M4PFHpA	39.0			ng/L	36.5		107	50-200			
Surrogate: M8PFOA	37.2			ng/L	36.5		102	50-200			
Surrogate: M8PFOS	37.1			ng/L	35.0		106	50-200			
Surrogate: M9PFNA	30.5			ng/L	36.5		83.6	50-200			
Surrogate: MPFDoA	36.8			ng/L	36.5		101	50-200			

Batch B312205 - EPA 533
Blank (B312205-BLK1)

Prepared: 07/05/22 Analyzed: 07/11/22

Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L							
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L							
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L							
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	ND	1.8		ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L							

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B312205 - EPA 533
Blank (B312205-BLK1)

Prepared: 07/05/22 Analyzed: 07/11/22

Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L							
Surrogate: M2-4:2FTS	35.8			ng/L	34.5		104	50-200			
Surrogate: M2-8:2FTS	42.2			ng/L	35.3		120	50-200			
Surrogate: MPFBA	36.5			ng/L	36.7		99.4	50-200			
Surrogate: M3HFPO-DA	33.7			ng/L	36.7		91.8	50-200			
Surrogate: M6PFDA	36.3			ng/L	36.7		98.7	50-200			
Surrogate: M3PFBS	33.9			ng/L	34.2		99.1	50-200			
Surrogate: M7PFUnA	34.8			ng/L	36.7		94.7	50-200			
Surrogate: M2-6:2FTS	41.7			ng/L	34.9		119	50-200			
Surrogate: M5PFPeA	36.0			ng/L	36.7		97.9	50-200			
Surrogate: M5PFHxA	33.5			ng/L	36.7		91.1	50-200			
Surrogate: M3PFHxS	33.9			ng/L	34.8		97.2	50-200			
Surrogate: M4PFHpA	35.7			ng/L	36.7		97.2	50-200			
Surrogate: M8PFOA	37.2			ng/L	36.7		101	50-200			
Surrogate: M8PFOS	37.2			ng/L	35.2		106	50-200			
Surrogate: M9PFNA	35.8			ng/L	36.7		97.5	50-200			
Surrogate: MPFDoA	34.3			ng/L	36.7		93.4	50-200			

LCs (B312205-BS1)

Prepared: 07/05/22 Analyzed: 07/11/22

Perfluorobutanoic acid (PFBA)	8.52	1.9		ng/L	9.58		89.0	70-130			
Perfluorobutanesulfonic acid (PFBS)	7.38	1.9		ng/L	8.48		87.1	70-130			
Perfluoropentanoic acid (PFPeA)	8.55	1.9		ng/L	9.58		89.2	70-130			
Perfluorohexanoic acid (PFHxA)	8.44	1.9		ng/L	9.58		88.1	70-130			
11Cl-PF3OUdS (F53B Minor)	7.51	1.9		ng/L	9.02		83.3	70-130			
9Cl-PF3ONS (F53B Major)	8.56	1.9		ng/L	8.93		95.9	70-130			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	7.13	1.9		ng/L	9.02		79.0	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.99	1.9		ng/L	9.58		83.4	70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	8.72	1.9		ng/L	9.19		94.8	70-130			
Perfluorodecanoic acid (PFDA)	7.47	1.9		ng/L	9.58		77.9	70-130			
Perfluorododecanoic acid (PFDoA)	9.64	1.9		ng/L	9.58		101	70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	7.25	1.9		ng/L	8.52		85.1	70-130			
Perfluoroheptanesulfonic acid (PFHpS)	7.57	1.9		ng/L	9.15		82.8	70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	7.86	1.9		ng/L	8.95		87.8	70-130			
Perfluorohexanesulfonic acid (PFHxS)	7.09	1.9		ng/L	8.76		81.0	70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	8.22	1.9		ng/L	9.58		85.9	70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	8.74	1.9		ng/L	9.58		91.2	70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	8.53	1.9		ng/L	9.10		93.7	70-130			
Perfluoropentanesulfonic acid (PFPeS)	7.28	1.9		ng/L	9.00		80.8	70-130			
Perfluoroundecanoic acid (PFUnA)	8.51	1.9		ng/L	9.58		88.9	70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.52	1.9		ng/L	9.58		89.0	70-130			
Perfluoroheptanoic acid (PFHpA)	9.05	1.9		ng/L	9.58		94.5	70-130			
Perfluorooctanoic acid (PFOA)	8.41	1.9		ng/L	9.58		87.8	70-130			
Perfluorooctanesulfonic acid (PFOS)	7.71	1.9		ng/L	8.86		87.1	70-130			
Perfluorononanoic acid (PFNA)	9.27	1.9		ng/L	9.58		96.8	70-130			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B312205 - EPA 533
LCS (B312205-BS1)

Prepared: 07/05/22 Analyzed: 07/11/22

Surrogate: M2-4:2FTS	37.2			ng/L	35.9		104	50-200			
Surrogate: M2-8:2FTS	38.0			ng/L	36.8		103	50-200			
Surrogate: MPFBA	40.3			ng/L	38.3		105	50-200			
Surrogate: M3HFPO-DA	32.1			ng/L	38.3		83.8	50-200			
Surrogate: M6PFDA	41.1			ng/L	38.3		107	50-200			
Surrogate: M3PFBS	35.7			ng/L	35.7		100	50-200			
Surrogate: M7PFUnA	41.7			ng/L	38.3		109	50-200			
Surrogate: M2-6:2FTS	39.2			ng/L	36.4		108	50-200			
Surrogate: M5PFPeA	39.8			ng/L	38.3		104	50-200			
Surrogate: M5PFHxA	36.1			ng/L	38.3		94.2	50-200			
Surrogate: M3PFHxS	37.8			ng/L	36.3		104	50-200			
Surrogate: M4PFHpA	36.2			ng/L	38.3		94.4	50-200			
Surrogate: M8PFOA	40.4			ng/L	38.3		106	50-200			
Surrogate: M8PFOS	37.8			ng/L	36.7		103	50-200			
Surrogate: M9PFNA	38.9			ng/L	38.3		102	50-200			
Surrogate: MPFDoA	36.1			ng/L	38.3		94.1	50-200			

Batch B312869 - EPA 533
Blank (B312869-BLK1)

Prepared: 07/13/22 Analyzed: 07/17/22

Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L							
11Cl-PF3OUdS (F53B Minor)	ND	1.8		ng/L							
9Cl-PF3ONS (F53B Major)	ND	1.8		ng/L							
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L							
Surrogate: M2-4:2FTS	31.3			ng/L	33.8		92.6	50-200			
Surrogate: M2-8:2FTS	38.9			ng/L	34.6		112	50-200			
Surrogate: MPFBA	37.4			ng/L	36.0		104	50-200			
Surrogate: M3HFPO-DA	38.2			ng/L	36.0		106	50-200			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B312869 - EPA 533
Blank (B312869-BLK1)

Prepared: 07/13/22 Analyzed: 07/17/22

Surrogate: M6PFDA	36.8			ng/L	36.0		102	50-200			
Surrogate: M3PFBS	33.6			ng/L	33.6		100	50-200			
Surrogate: M7PFUnA	36.8			ng/L	36.0		102	50-200			
Surrogate: M2-6:2FTS	34.4			ng/L	34.3		100	50-200			
Surrogate: M5PFPeA	36.7			ng/L	36.0		102	50-200			
Surrogate: M5PFHxA	36.1			ng/L	36.0		100	50-200			
Surrogate: M3PFHxS	34.4			ng/L	34.1		101	50-200			
Surrogate: M4PFHpA	35.7			ng/L	36.0		99.1	50-200			
Surrogate: M8PFOA	36.7			ng/L	36.0		102	50-200			
Surrogate: M8PFOS	36.1			ng/L	34.5		104	50-200			
Surrogate: M9PFNA	39.4			ng/L	36.0		109	50-200			
Surrogate: MPFDoA	36.1			ng/L	36.0		100	50-200			

LCS (B312869-BS1)

Prepared: 07/13/22 Analyzed: 07/17/22

Perfluorobutanoic acid (PFBA)	2.09	1.8		ng/L	1.82		115	50-150			
Perfluorobutanesulfonic acid (PFBS)	1.73	1.8		ng/L	1.61		107	50-150			
Perfluoropentanoic acid (PFPeA)	1.98	1.8		ng/L	1.82		109	50-150			
Perfluorohexanoic acid (PFHxA)	1.98	1.8		ng/L	1.82		109	50-150			
11Cl-PF3OUdS (F53B Minor)	1.43	1.8		ng/L	1.71		83.6	50-150			
9Cl-PF3ONS (F53B Major)	1.81	1.8		ng/L	1.70		107	50-150			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.68	1.8		ng/L	1.71		98.0	50-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.54	1.8		ng/L	1.82		84.4	50-150			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.62	1.8		ng/L	1.75		92.8	50-150			
Perfluorodecanoic acid (PFDA)	1.81	1.8		ng/L	1.82		99.4	50-150			
Perfluorododecanoic acid (PFDoA)	2.00	1.8		ng/L	1.82		110	50-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	1.64	1.8		ng/L	1.62		102	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.85	1.8		ng/L	1.74		106	50-150			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.79	1.8		ng/L	1.70		105	50-150			
Perfluorohexanesulfonic acid (PFHxS)	1.73	1.8		ng/L	1.67		104	50-150			
Perfluoro-4-oxapentanoic acid (PFMPA)	1.83	1.8		ng/L	1.82		101	50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.90	1.8		ng/L	1.82		104	50-150			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.80	1.8		ng/L	1.73		104	50-150			
Perfluoropentanesulfonic acid (PFPeS)	1.70	1.8		ng/L	1.71		99.2	50-150			
Perfluoroundecanoic acid (PFUnA)	1.80	1.8		ng/L	1.82		99.0	50-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.91	1.8		ng/L	1.82		105	50-150			
Perfluoroheptanoic acid (PFHpA)	1.92	1.8		ng/L	1.82		105	50-150			
Perfluorooctanoic acid (PFOA)	2.27	1.8		ng/L	1.82		125	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.49	1.8		ng/L	1.68		88.4	50-150			
Perfluorononanoic acid (PFNA)	1.80	1.8		ng/L	1.82		98.8	50-150			
Surrogate: M2-4:2FTS	32.0			ng/L	34.1		93.7	50-200			
Surrogate: M2-8:2FTS	39.4			ng/L	34.9		113	50-200			
Surrogate: MPFBA	38.5			ng/L	36.4		106	50-200			
Surrogate: M3HFPO-DA	40.4			ng/L	36.4		111	50-200			
Surrogate: M6PFDA	35.4			ng/L	36.4		97.3	50-200			
Surrogate: M3PFBS	33.8			ng/L	33.9		99.7	50-200			
Surrogate: M7PFUnA	36.1			ng/L	36.4		99.2	50-200			
Surrogate: M2-6:2FTS	34.6			ng/L	34.6		99.8	50-200			
Surrogate: M5PFPeA	37.6			ng/L	36.4		103	50-200			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B312869 - EPA 533
LCS (B312869-BS1)

Prepared: 07/13/22 Analyzed: 07/17/22

Surrogate: M5PFHxA	35.1			ng/L	36.4		96.5	50-200			
Surrogate: M3PFHxS	34.9			ng/L	34.5		101	50-200			
Surrogate: M4PFHpA	36.4			ng/L	36.4		100	50-200			
Surrogate: M8PFOA	37.5			ng/L	36.4		103	50-200			
Surrogate: M8PFOS	35.8			ng/L	34.9		103	50-200			
Surrogate: M9PFNA	36.8			ng/L	36.4		101	50-200			
Surrogate: MPFDoA	33.4			ng/L	36.4		91.8	50-200			

LCS Dup (B312869-BSD1)

Prepared: 07/13/22 Analyzed: 07/17/22

Perfluorobutanoic acid (PFBA)	1.97	1.8		ng/L	1.82		108	50-150	6.07	50	
Perfluorobutanesulfonic acid (PFBS)	1.63	1.8		ng/L	1.61		101	50-150	5.81	50	
Perfluoropentanoic acid (PFPeA)	1.87	1.8		ng/L	1.82		102	50-150	5.92	50	
Perfluorohexanoic acid (PFHxA)	1.95	1.8		ng/L	1.82		107	50-150	1.20	50	
11Cl-PF3OUdS (F53B Minor)	1.55	1.8		ng/L	1.72		90.4	50-150	7.86	50	
9Cl-PF3ONS (F53B Major)	1.67	1.8		ng/L	1.70		98.4	50-150	8.35	50	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.67	1.8		ng/L	1.72		97.2	50-150	0.749	50	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.51	1.8		ng/L	1.82		83.1	50-150	1.50	50	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.78	1.8		ng/L	1.75		102	50-150	9.11	50	
Perfluorodecanoic acid (PFDA)	1.82	1.8		ng/L	1.82		100	50-150	0.697	50	
Perfluorododecanoic acid (PFDoA)	1.72	1.8		ng/L	1.82		94.3	50-150	15.3	50	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	1.62	1.8		ng/L	1.62		99.9	50-150	1.62	50	
Perfluoroheptanesulfonic acid (PFHpS)	1.69	1.8		ng/L	1.74		97.1	50-150	9.17	50	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.74	1.8		ng/L	1.70		102	50-150	3.18	50	
Perfluorohexanesulfonic acid (PFHxS)	1.59	1.8		ng/L	1.67		95.5	50-150	8.56	50	
Perfluoro-4-oxapentanoic acid (PFMPA)	1.79	1.8		ng/L	1.82		98.3	50-150	2.34	50	
Perfluoro-5-oxahexanoic acid (PFMBA)	1.84	1.8		ng/L	1.82		101	50-150	2.84	50	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.67	1.8		ng/L	1.73		96.6	50-150	7.68	50	
Perfluoropentanesulfonic acid (PFPeS)	1.66	1.8		ng/L	1.71		97.0	50-150	2.14	50	
Perfluoroundecanoic acid (PFUnA)	1.86	1.8		ng/L	1.82		102	50-150	3.38	50	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.87	1.8		ng/L	1.82		103	50-150	2.43	50	
Perfluoroheptanoic acid (PFHpA)	1.94	1.8		ng/L	1.82		107	50-150	1.22	50	
Perfluorooctanoic acid (PFOA)	2.03	1.8		ng/L	1.82		111	50-150	11.3	50	
Perfluorooctanesulfonic acid (PFOS)	1.64	1.8		ng/L	1.68		97.6	50-150	9.97	50	
Perfluorononanoic acid (PFNA)	1.76	1.8		ng/L	1.82		96.9	50-150	1.92	50	
Surrogate: M2-4:2FTS	35.8			ng/L	34.2		105	50-200			
Surrogate: M2-8:2FTS	45.7			ng/L	35.0		131	50-200			
Surrogate: MPFBA	42.2			ng/L	36.4		116	50-200			
Surrogate: M3HFPO-DA	46.6			ng/L	36.4		128	50-200			
Surrogate: M6PFDA	40.1			ng/L	36.4		110	50-200			
Surrogate: M3PFBS	39.5			ng/L	33.9		116	50-200			
Surrogate: M7PFUnA	39.4			ng/L	36.4		108	50-200			
Surrogate: M2-6:2FTS	40.7			ng/L	34.6		117	50-200			
Surrogate: M5PFPeA	41.4			ng/L	36.4		114	50-200			
Surrogate: M5PFHxA	39.8			ng/L	36.4		109	50-200			
Surrogate: M3PFHxS	40.7			ng/L	34.5		118	50-200			
Surrogate: M4PFHpA	39.9			ng/L	36.4		110	50-200			
Surrogate: M8PFOA	42.1			ng/L	36.4		116	50-200			
Surrogate: M8PFOS	43.1			ng/L	34.9		123	50-200			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B312869 - EPA 533
LCS Dup (B312869-BSD1)

Prepared: 07/13/22 Analyzed: 07/17/22

Surrogate: M9PFNA	42.5			ng/L	36.4		117	50-200			
Surrogate: MPFDoA	42.4			ng/L	36.4		116	50-200			

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.
PF-01	Surrogate recovery is outside of control limits. Sample not re-extracted past holding time per method.
S-29	Extracted Internal Standard is outside of control limits.
Z-01	Extracted internal standard outside of conformance limits. Data not significantly affected as associated analyte is not detected and the bias is on the high side.
Z-01a	Extracted internal standard outside of conformance limits. Sample re-extract confirmed non-conformance.
Z-01b	Extracted internal standard outside of conformance limits. Sample re-extract confirmed non-conformance. Original results reported.
Z-01c	Internal standard area <50% of associated calibration internal standard area. Sample re-extract confirmed non-conformance. Original result reported.
Z-01d	Internal standard area <50% of associated continuing calibration standard internal standard area.
Z-01e	Internal standard area <50% of associated continuing calibration standard internal standard area. Original result reported.

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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 533 in Drinking Water</i>	
Perfluorobutanoic acid (PFBA)	VT-DW,ME,NJ,NH-P
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME,NJ,NH-P
Perfluoropentanoic acid (PFPeA)	VT-DW,ME,NJ,NH-P
Perfluorohexanoic acid (PFHxA)	VT-DW,ME,NJ,NH-P
11Cl-PF3OUdS (F53B Minor)	VT-DW,ME,NJ,NH-P
9Cl-PF3ONS (F53B Major)	VT-DW,ME,NJ,NH-P
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	VT-DW,ME,NJ,NH-P
Hexafluoropropylene oxide dimer acid (HFPO-DA)	VT-DW,ME,NJ,NH-P
8:2 Fluorotelomersulfonic acid (8:2FTS A)	VT-DW,ME,NJ,NH-P
Perfluorodecanoic acid (PFDA)	VT-DW,ME,NJ,NH-P
Perfluorododecanoic acid (PFDoA)	VT-DW,ME,NJ,NH-P
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	VT-DW,ME,NJ,NH-P
Perfluoroheptanesulfonic acid (PFHpS)	VT-DW,ME,NJ,NH-P
4:2 Fluorotelomersulfonic acid (4:2FTS A)	VT-DW,ME,NJ,NH-P
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME,NJ,NH-P
Perfluoro-4-oxapentanoic acid (PFMPA)	VT-DW,ME,NJ,NH-P
Perfluoro-5-oxahexanoic acid (PFMBA)	VT-DW,ME,NJ,NH-P
6:2 Fluorotelomersulfonic acid (6:2FTS A)	VT-DW,ME,NJ,NH-P
Perfluoropentanesulfonic acid (PFPeS)	VT-DW,ME,NJ,NH-P
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME,NJ,NH-P
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	VT-DW,ME,NJ,NH-P
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME,NJ,NH-P
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,NJ
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,NJ
Perfluorononanoic acid (PFNA)	VT-DW,ME,NJ,NH-P

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

22-1154



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

http://www.contestlabs.com

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 4

Project Name: Archie's

Address: 110 W Fayette St., Suite 300, Syracuse

Phone: NY 13202 (315) 559-6075

Project Location: Newburgh, NY

Project Number: See Contract

Project Manager: Dana Bryant

Con-Test Quote Name/Number: See Contract

Invoice Recipient: See Contract

Sampled By: Nick Firman

Requested Turnaround Time: ☒ 7-Day ☐ 10-Day

Due Date: _____

Rush Approval Required: ☒ 1-Day ☐ 3-Day ☐ 4-Day

Data Delivery: ☒ EXCEL ☐ PDF

Other: _____

CLP Like Data Pkg Required: ☐

Email To: _____

Fax To #: _____

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	WL-3A-B	6/14/22	930		X	W	
2	WL-3A-T		935				
3	WL-2A-M		1020				
4	WL-4A-M		1045				
5	WL-1A-B		1105				
6	WL-1A-T		1110				
7	WL-6A-B		1130				
8	WL-6A-M		1135				
9	WL-6A-T		1140				
10	WL-5A-B		1215				
	11WL-5A-M		1220				
	12WL-5A-T		1225				

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: 6/16/22 1300

Received by: (signature) _____ Date/Time: 6/17/22 916

Relinquished by: (signature) _____ Date/Time: _____

Received by: (signature) _____ Date/Time: _____

Relinquished by: (signature) _____ Date/Time: _____

Received by: (signature) _____ Date/Time: _____

Project Information

AWQ STDs ☐ NYC Sewer Discharge ☐ NYC TOGS ☐ NY CP-51 ☐ Part 360 GW (Landfill) ☐ NY Restricted Use ☐ NY Unrestricted Use ☐ NY Part 375 ☐

Project Entity: ☒ Government ☐ Federal ☐ City ☐ Municipality ☐ 21 J ☐ Brownfield ☐ MWRA ☐ School ☐ MBTA ☐ WRTA ☐ Other ☐

Enhanced Data Package

☐ NYSDEC EDD ☐ EQUS (Standard) EDD ☐ NY Regulatory EDD ☐ NY Regs Hits-Only EDD

Other: _____

NETAC and AIHA-LAP, LLC Accredited

of Containers: _____

Preservation Code: _____

Container Code: _____

Field Filtered ☐ Lab to Filter ☐

Field Filtered ☐ Lab to Filter ☐

1 Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
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)

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet



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

Arundis

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

Doc # 380 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

Page 3 of 4

Address: _____
Phone: _____
Project Location: _____
Project Number: _____
Project Manager: _____
Con-Test Quote Name/Number: _____
Invoice Recipient: _____
Sampled By: _____

Requested Turnaround Time: _____
Due Date: _____
7-Day ☐ 10-Day ☒
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐
Format: PDF ☒ EXCEL ☒
Other: _____
CLP Like Data Pkg Required: ☐
Email To: _____
Fax To #: _____

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
24 21	SS-5A (6")	6/15/22	905		X	W	
25 22	SS-5A (SW)		910				
26 23	SS-3A (6")		925				
27 24	SS-3A (SW)		930				
28 25	SS-2A (6")		935				
29 26	SS-2A (SW)		940				
30 27	SS-1A (6")		945				
31 28	SS-1A (SW)		950				
32 29	RP-1A (6")		1010				
33 30	RP-1A (SW)		1015				

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: 6/16/22 1300
Received by: (signature) _____ Date/Time: 6/17 912
Relinquished by: (signature) _____ Date/Time: _____
Received by: (signature) _____ Date/Time: _____
Relinquished by: (signature) _____ Date/Time: _____
Received by: (signature) _____ Date/Time: _____

Project Information:
Project Name: _____
Project Number: _____
Project Location: _____
Project Manager: _____
Project Date: _____
Project Time: _____

Regulatory Information:
AWQ STDS ☐ NY TOGS ☐
NYC Sewer Discharge ☐ NY CP-51 ☐
Part 360 GW (Landfill) ☐
NY Restricted Use ☐
NY Unrestricted Use ☐
NY Part 375 ☐

Enhanced Data Package:
NYSDEC EQUIS EDD ☐
EQUIS (Standard) EDD ☐
NY Regulatory EDD ☐
NY Regs Hits-Only EDD ☐

Other:
Municipality ☐ WRTA ☐
Government ☐ School ☐
Federal ☐ MBTA ☐
City ☐ Brownfield ☐
21 J ☐
Chromatogram ☐
AIHA-LAP, LLC ☐

PCB ONLY:
Soxhlet ☐
Non Soxhlet ☐

https://www.fedex.com
USPS Tracking



FedEx® Tracking



274418924572



ADD NICKNAME

Delivered
Friday, 6/17/2022 at 9:16 am

SHIPMENT IS 1 OF 2 PIECES



DELIVERED

Signed for by: R.PETRAITIS

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

SYRACUSE, NY US

TO

Feeding Hills, MA US

MANAGE DELIVERY

2 Piece Shipment

TRACKING ID	STATUS	SHIP DATE	DELIVERY DATE	HANDLING PIECE UNITS	SHIPPER CITY, STATE	RECIPIENT CITY, STATE
274418924561 (master)	Delivered	6/16/22	6/17/22	0	SYRACUSE NY	Feeding Hills MA
274418924572	Delivered	6/16/22	6/17/22	0	SYRACUSE NY	Feeding Hills MA

Travel History

TIME ZONE

Local Scan Time



Friday, June 17, 2022

9:16 AM	Feeding Hills, MA	Delivered
8:28 AM	WINDSOR LOCKS, CT	On FedEx vehicle for delivery

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



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 Acadia's
 Received By LA Date 6/17/22 Time 9/6

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

Were samples within Temperature? 2-6°C T By Gun # 5 Actual Temp - 3.6
 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
 Was COC Relinquished? F Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? T
 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 T
 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? N/A MS/MSD? F
 Proper Media/Containers Used? T Is splitting samples required? T
 Were trip blanks received? F On COC? F
 Do all samples have the proper pH? N/A 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:

August 16, 2022

David Chiusano
NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065

Project Location: Newburgh, NY
Client Job Number:
Project Number: Spill # 336089
Laboratory Work Order Number: 22G0012

Enclosed are results of analyses for samples as received by the laboratory on July 1, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

Table of Contents

Sample Summary	5
Case Narrative	6
Sample Results	9
22G0012-01	9
22G0012-02	10
22G0012-03	11
22G0012-04	12
22G0012-05	13
22G0012-06	14
22G0012-07	15
22G0012-08	16
22G0012-09	17
22G0012-10	18
22G0012-11	19
22G0012-12	20
22G0012-13	21
22G0012-14	22
22G0012-15	23
22G0012-16	24
22G0012-17	25
22G0012-18	26
22G0012-19	27
22G0012-20	28
22G0012-21	29
22G0012-22	30

Table of Contents (continued)

22G0012-23	31
22G0012-24	32
22G0012-25	33
22G0012-26	34
22G0012-27	35
22G0012-28	36
22G0012-29	37
22G0012-30	38
22G0012-31	39
22G0012-32	40
22G0012-33	41
22G0012-34	42
22G0012-35	43
22G0012-36	44
22G0012-37	45
22G0012-38	46
22G0012-39	47
22G0012-40	48
22G0012-41	49
QC Data	50
Semivolatile Organic Compounds by - LC/MS-MS	50
B312650	50
B312651	52
B312870	55
B314147	58

Table of Contents (continued)

Flag/Qualifier Summary	60
Certifications	61
Chain of Custody/Sample Receipt	62

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

 NYDEC_Arcadis US, Inc. - Clifton Park-NY
 855 Route 146, Suite 210
 Clifton Park, NY 12065
 ATTN: David Chiusano

REPORT DATE: 8/16/2022

PURCHASE ORDER NUMBER: 141589

PROJECT NUMBER: Spill # 336089

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22G0012

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Newburgh, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WL-3A-B	22G0012-01	Drinking Water		EPA 533	
WL-3A-T	22G0012-02	Drinking Water		EPA 533	
WL-4A-M	22G0012-03	Drinking Water		EPA 533	
WL-2A-M	22G0012-04	Drinking Water		EPA 533	
WL-1A-B	22G0012-05	Drinking Water		EPA 533	
WL-1A-T	22G0012-06	Drinking Water		EPA 533	
WL-6A-B	22G0012-07	Drinking Water		EPA 533	
WL-6A-M	22G0012-08	Drinking Water		EPA 533	
WL-6A-T	22G0012-09	Drinking Water		EPA 533	
WL-5A-B	22G0012-10	Drinking Water		EPA 533	
WL-5A-M	22G0012-11	Drinking Water		EPA 533	
WL-5A-T	22G0012-12	Drinking Water		EPA 533	
ML-1A-M	22G0012-13	Drinking Water		EPA 533	
MC-4A- (6")	22G0012-14	Drinking Water		EPA 533	
MC-4A (SW)	22G0012-15	Drinking Water		EPA 533	
MC-3A (6")	22G0012-16	Drinking Water		EPA 533	
MC-3A (SW)	22G0012-17	Drinking Water		EPA 533	
ML-2A (6")	22G0012-18	Drinking Water		EPA 533	
ML-2A (SW)	22G0012-19	Drinking Water		EPA 533	
ML-3A (6")	22G0012-20	Drinking Water		EPA 533	
ML-3A (SW)	22G0012-21	Drinking Water		EPA 533	
MC-2A (6")	22G0012-22	Drinking Water		EPA 533	
MC-2A (SW)	22G0012-23	Drinking Water		EPA 533	
MC-1A (6")	22G0012-24	Drinking Water		EPA 533	
MC-1A (SW)	22G0012-25	Drinking Water		EPA 533	
SS-6A (6")	22G0012-26	Drinking Water		EPA 533	
SS-6A (SW)	22G0012-27	Drinking Water		EPA 533	
SS-5A (6")	22G0012-28	Drinking Water		EPA 533	
SS-5A (SW)	22G0012-29	Drinking Water		EPA 533	
SS-3A	22G0012-30	Drinking Water		EPA 533	
SS-3A	22G0012-31	Drinking Water		EPA 533	
SS-2A	22G0012-32	Drinking Water		EPA 533	
SS-2A	22G0012-33	Drinking Water		EPA 533	
SS-1A	22G0012-34	Drinking Water		EPA 533	
SS-1A	22G0012-35	Drinking Water		EPA 533	
RP-1A	22G0012-36	Drinking Water		EPA 533	
RP-1A	22G0012-37	Drinking Water		EPA 533	
RP-2A	22G0012-38	Drinking Water		EPA 533	
RP-2A	22G0012-39	Drinking Water		EPA 533	
RPT-1A	22G0012-40	Drinking Water		EPA 533	
RPT-1A	22G0012-41	Drinking Water		EPA 533	

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

CASE NARRATIVE SUMMARY

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

Revised Report for PFAS 533 8/16/22: Revision to correct error on PFOS.

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

EPA 533**Qualifications:****H-04**

Initial analysis within holding time. Reanalysis for the required dilution was past holding time.

Analyte & Samples(s) Qualified:

22G0012-36RE1[RP-1A], 22G0012-37RE1[RP-1A], 22G0012-38RE1[RP-2A], 22G0012-39RE1[RP-2A]

L-04

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

Analyte & Samples(s) Qualified:**Hexafluoropropylene oxide dimer :**

B312870-BS1, B312870-BSD1

L-06

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

Analyte & Samples(s) Qualified:**Perfluorobutanesulfonic acid (PFB**

22G0012-01[WL-3A-B], 22G0012-02[WL-3A-T], 22G0012-03[WL-4A-M], 22G0012-04[WL-2A-M], 22G0012-05[WL-1A-B], 22G0012-06[WL-1A-T], 22G0012-07[WL-6A-B], 22G0012-08[WL-6A-M], 22G0012-09[WL-6A-T], 22G0012-10[WL-5A-B], 22G0012-11[WL-5A-M], 22G0012-12[WL-5A-T], 22G0012-13[ML-1A-M], 22G0012-14[MC-4A- (6")], 22G0012-15[MC-4A (SW)], 22G0012-16[MC-3A (6")], 22G0012-17[MC-3A (SW)], 22G0012-18[ML-2A (6")], 22G0012-19[ML-2A (SW)], 22G0012-20[ML-3A (6")], B312650-BS1, B312650-BSD1

PF-01

Surrogate recovery is outside of control limits. Sample not re-extracted past holding time per method.

Analyte & Samples(s) Qualified:**M2-6:2FTS**

22G0012-29[SS-5A (SW)], 22G0012-35[SS-1A], 22G0012-36[RP-1A], 22G0012-37[RP-1A], 22G0012-38[RP-2A]

M2-8:2FTS

22G0012-38[RP-2A]

M3HFPO-DA

22G0012-21[ML-3A (SW)], 22G0012-28[SS-5A (6")], 22G0012-38[RP-2A], 22G0012-39[RP-2A]

M3PFHxS

22G0012-39[RP-2A]

M4PFHpA

22G0012-39[RP-2A]

M5PFHxA

22G0012-39[RP-2A]

M6PFDA

22G0012-39[RP-2A]

M7PFUnA

22G0012-39[RP-2A]

M8PFOA

22G0012-39[RP-2A]

M8PFOS

22G0012-39[RP-2A]

M9PFNA

22G0012-39[RP-2A]

MPFBA

22G0012-39[RP-2A]

MPFDoA

22G0012-39[RP-2A]

PF-20

Sample extracted at a dilution. Elevated reporting limits due to adjusted sample volume during preparation.

Analyte & Samples(s) Qualified:

22G0012-36RE1[RP-1A], 22G0012-37RE1[RP-1A], 22G0012-38RE1[RP-2A], 22G0012-39RE1[RP-2A]

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

Z-01

Detection >1/3 the MRL in blank.

Analyte & Samples(s) Qualified:**Perfluorobutanesulfonic acid (PFB)**

22G0012-01[WL-3A-B], 22G0012-02[WL-3A-T], 22G0012-03[WL-4A-M], 22G0012-04[WL-2A-M], 22G0012-05[WL-1A-B], 22G0012-06[WL-1A-T],
22G0012-07[WL-6A-B], 22G0012-08[WL-6A-M], 22G0012-09[WL-6A-T], 22G0012-10[WL-5A-B], 22G0012-11[WL-5A-M], 22G0012-12[WL-5A-T],
22G0012-13[ML-1A-M], 22G0012-14[MC-4A- (6")], 22G0012-15[MC-4A (SW)], 22G0012-16[MC-3A (6")], 22G0012-17[MC-3A (SW)], 22G0012-18[ML-2A (6")],
22G0012-19[ML-2A (SW)], 22G0012-20[ML-3A (6")], B312650-BLK1

Z-01a

Extracted Internal Standard is outside of control limits. Sample not re-extracted past hold per method criteria.

Analyte & Samples(s) Qualified:**M2-6:2FTS**

22G0012-19[ML-2A (SW)]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace 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.



Lisa A. Worthington
Technical Representative

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: WL-3A-B

Sampled: 6/28/2022 08:15

Sample ID: 22G0012-01

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	12	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL
Perfluorobutanesulfonic acid (PFBS)	6.2	1.7		ng/L	1	L-06, Z-01	EPA 533	7/26/22	7/29/22 11:46	DRL
Perfluoropentanoic acid (PFPeA)	33	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL
Perfluorohexanoic acid (PFHxA)	24	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL
Perfluorodecanoic acid (PFDA)	1.7	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL
Perfluorohexanesulfonic acid (PFHxS)	15	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.2	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL
Perfluoroheptanoic acid (PFHpA)	11	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL
Perfluorooctanoic acid (PFOA)	11	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL
Perfluorooctanesulfonic acid (PFOS)	36	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL
Perfluorononanoic acid (PFNA)	2.5	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:46	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	102	50-200	7/29/22 11:46
M2-8:2FTS	160	50-200	7/29/22 11:46
MPFBA	93.4	50-200	7/29/22 11:46
M3HFPO-DA	75.6	50-200	7/29/22 11:46
M6PFDA	80.6	50-200	7/29/22 11:46
M3PFBS	97.8	50-200	7/29/22 11:46
M7PFUnA	75.9	50-200	7/29/22 11:46
M2-6:2FTS	156	50-200	7/29/22 11:46
M5PFPeA	149	50-200	7/29/22 11:46
M5PFHxA	90.1	50-200	7/29/22 11:46
M3PFHxS	100	50-200	7/29/22 11:46
M4PFHpA	85.7	50-200	7/29/22 11:46
M8PFOA	85.5	50-200	7/29/22 11:46
M8PFOS	96.5	50-200	7/29/22 11:46
M9PFNA	84.5	50-200	7/29/22 11:46
MPFDoA	70.4	50-200	7/29/22 11:46

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: WL-3A-T

Sampled: 6/28/2022 08:20

Sample ID: 22G0012-02

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	14	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL
Perfluorobutanesulfonic acid (PFBS)	6.0	1.7		ng/L	1	L-06, Z-01	EPA 533	7/26/22	7/29/22 11:54	DRL
Perfluoropentanoic acid (PFPeA)	34	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL
Perfluorohexanoic acid (PFHxA)	25	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL
Perfluorodecanoic acid (PFDA)	1.9	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL
Perfluorohexanesulfonic acid (PFHxS)	16	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.3	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL
Perfluoroheptanoic acid (PFHpA)	12	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL
Perfluorooctanoic acid (PFOA)	11	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL
Perfluorooctanesulfonic acid (PFOS)	39	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL
Perfluorononanoic acid (PFNA)	2.8	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 11:54	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	95.1	50-200	7/29/22 11:54
M2-8:2FTS	145	50-200	7/29/22 11:54
MPFBA	87.8	50-200	7/29/22 11:54
M3HFPO-DA	77.9	50-200	7/29/22 11:54
M6PFDA	80.8	50-200	7/29/22 11:54
M3PFBS	92.1	50-200	7/29/22 11:54
M7PFUnA	75.2	50-200	7/29/22 11:54
M2-6:2FTS	135	50-200	7/29/22 11:54
M5PFPeA	117	50-200	7/29/22 11:54
M5PFHxA	82.5	50-200	7/29/22 11:54
M3PFHxS	93.3	50-200	7/29/22 11:54
M4PFHpA	81.2	50-200	7/29/22 11:54
M8PFOA	85.1	50-200	7/29/22 11:54
M8PFOS	97.1	50-200	7/29/22 11:54
M9PFNA	79.6	50-200	7/29/22 11:54
MPFDoA	77.5	50-200	7/29/22 11:54

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: WL-4A-M

Sampled: 6/28/2022 08:40

Sample ID: 22G0012-03

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	13	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL
Perfluorobutanesulfonic acid (PFBS)	6.4	1.7		ng/L	1	L-06, Z-01	EPA 533	7/26/22	7/29/22 12:01	DRL
Perfluoropentanoic acid (PFPeA)	33	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL
Perfluorohexanoic acid (PFHxA)	24	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL
Perfluorodecanoic acid (PFDA)	1.8	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL
Perfluorohexanesulfonic acid (PFHxS)	15	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.2	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL
Perfluoroheptanoic acid (PFHpA)	11	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL
Perfluorooctanoic acid (PFOA)	12	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL
Perfluorooctanesulfonic acid (PFOS)	39	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL
Perfluorononanoic acid (PFNA)	2.5	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:01	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	91.9	50-200	7/29/22 12:01
M2-8:2FTS	136	50-200	7/29/22 12:01
MPFBA	89.4	50-200	7/29/22 12:01
M3HFPO-DA	67.3	50-200	7/29/22 12:01
M6PFDA	74.0	50-200	7/29/22 12:01
M3PFBS	91.1	50-200	7/29/22 12:01
M7PFUnA	70.4	50-200	7/29/22 12:01
M2-6:2FTS	128	50-200	7/29/22 12:01
M5PFPeA	162	50-200	7/29/22 12:01
M5PFHxA	84.1	50-200	7/29/22 12:01
M3PFHxS	92.8	50-200	7/29/22 12:01
M4PFHpA	82.7	50-200	7/29/22 12:01
M8PFOA	82.8	50-200	7/29/22 12:01
M8PFOS	92.4	50-200	7/29/22 12:01
M9PFNA	77.1	50-200	7/29/22 12:01
MPFDoA	64.4	50-200	7/29/22 12:01

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: WL-2A-M

Sampled: 6/28/2022 09:05

Sample ID: 22G0012-04

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	14	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL
Perfluorobutanesulfonic acid (PFBS)	5.7	1.7		ng/L	1	L-06, Z-01	EPA 533	7/26/22	7/29/22 12:08	DRL
Perfluoropentanoic acid (PFPeA)	34	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL
Perfluorohexanoic acid (PFHxA)	25	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL
Perfluorohexanesulfonic acid (PFHxS)	16	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.2	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL
Perfluoroheptanoic acid (PFHpA)	11	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL
Perfluorooctanoic acid (PFOA)	12	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL
Perfluorooctanesulfonic acid (PFOS)	37	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL
Perfluorononanoic acid (PFNA)	2.5	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:08	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	90.7	50-200	7/29/22 12:08
M2-8:2FTS	147	50-200	7/29/22 12:08
MPFBA	86.7	50-200	7/29/22 12:08
M3HFPO-DA	73.7	50-200	7/29/22 12:08
M6PFDA	71.4	50-200	7/29/22 12:08
M3PFBS	88.6	50-200	7/29/22 12:08
M7PFUnA	67.0	50-200	7/29/22 12:08
M2-6:2FTS	130	50-200	7/29/22 12:08
M5PFPeA	127	50-200	7/29/22 12:08
M5PFHxA	80.8	50-200	7/29/22 12:08
M3PFHxS	90.1	50-200	7/29/22 12:08
M4PFHpA	78.9	50-200	7/29/22 12:08
M8PFOA	78.0	50-200	7/29/22 12:08
M8PFOS	92.2	50-200	7/29/22 12:08
M9PFNA	73.9	50-200	7/29/22 12:08
MPFDoA	59.6	50-200	7/29/22 12:08

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: WL-1A-B

Sampled: 6/28/2022 09:45

Sample ID: 22G0012-05

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	13	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL
Perfluorobutanesulfonic acid (PFBS)	5.8	1.7		ng/L	1	L-06, Z-01	EPA 533	7/26/22	7/29/22 12:15	DRL
Perfluoropentanoic acid (PFPeA)	35	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL
Perfluorohexanoic acid (PFHxA)	25	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL
Perfluorodecanoic acid (PFDA)	1.7	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL
Perfluorohexanesulfonic acid (PFHxS)	15	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.2	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL
Perfluoroheptanoic acid (PFHpA)	12	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL
Perfluorooctanoic acid (PFOA)	12	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL
Perfluorooctanesulfonic acid (PFOS)	37	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL
Perfluorononanoic acid (PFNA)	2.7	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:15	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	104	50-200	7/29/22 12:15
M2-8:2FTS	158	50-200	7/29/22 12:15
MPFBA	104	50-200	7/29/22 12:15
M3HFPO-DA	89.1	50-200	7/29/22 12:15
M6PFDA	78.7	50-200	7/29/22 12:15
M3PFBS	101	50-200	7/29/22 12:15
M7PFUnA	67.1	50-200	7/29/22 12:15
M2-6:2FTS	142	50-200	7/29/22 12:15
M5PFPeA	191	50-200	7/29/22 12:15
M5PFHxA	97.6	50-200	7/29/22 12:15
M3PFHxS	107	50-200	7/29/22 12:15
M4PFHpA	93.5	50-200	7/29/22 12:15
M8PFOA	90.5	50-200	7/29/22 12:15
M8PFOS	97.7	50-200	7/29/22 12:15
M9PFNA	91.2	50-200	7/29/22 12:15
MPFDoA	52.6	50-200	7/29/22 12:15

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: WL-1A-T

Sampled: 6/28/2022 09:50

Sample ID: 22G0012-06

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	14	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL
Perfluorobutanesulfonic acid (PFBS)	6.2	1.7		ng/L	1	L-06, Z-01	EPA 533	7/26/22	7/29/22 12:22	DRL
Perfluoropentanoic acid (PFPeA)	33	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL
Perfluorohexanoic acid (PFHxA)	24	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL
Perfluorohexanesulfonic acid (PFHxS)	15	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.1	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL
Perfluoroheptanoic acid (PFHpA)	11	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL
Perfluorooctanoic acid (PFOA)	11	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL
Perfluorooctanesulfonic acid (PFOS)	35	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL
Perfluorononanoic acid (PFNA)	2.3	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:22	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	108	50-200	7/29/22 12:22
M2-8:2FTS	159	50-200	7/29/22 12:22
MPFBA	105	50-200	7/29/22 12:22
M3HFPO-DA	91.1	50-200	7/29/22 12:22
M6PFDA	81.3	50-200	7/29/22 12:22
M3PFBS	102	50-200	7/29/22 12:22
M7PFUnA	70.4	50-200	7/29/22 12:22
M2-6:2FTS	142	50-200	7/29/22 12:22
M5PFPeA	167	50-200	7/29/22 12:22
M5PFHxA	98.7	50-200	7/29/22 12:22
M3PFHxS	105	50-200	7/29/22 12:22
M4PFHpA	98.0	50-200	7/29/22 12:22
M8PFOA	93.9	50-200	7/29/22 12:22
M8PFOS	104	50-200	7/29/22 12:22
M9PFNA	93.3	50-200	7/29/22 12:22
MPFDoA	63.2	50-200	7/29/22 12:22

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: WL-6A-B

Sampled: 6/28/2022 10:10

Sample ID: 22G0012-07

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	13	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL
Perfluorobutanesulfonic acid (PFBS)	5.9	1.7		ng/L	1	L-06, Z-01	EPA 533	7/26/22	7/29/22 12:30	DRL
Perfluoropentanoic acid (PFPeA)	33	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL
Perfluorohexanoic acid (PFHxA)	25	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL
Perfluorodecanoic acid (PFDA)	2.0	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL
Perfluorohexanesulfonic acid (PFHxS)	17	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.2	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL
Perfluoroheptanoic acid (PFHpA)	12	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL
Perfluorooctanoic acid (PFOA)	12	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL
Perfluorooctanesulfonic acid (PFOS)	43	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL
Perfluorononanoic acid (PFNA)	2.8	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:30	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	99.3	50-200	7/29/22 12:30
M2-8:2FTS	166	50-200	7/29/22 12:30
MPFBA	82.1	50-200	7/29/22 12:30
M3HFPO-DA	67.3	50-200	7/29/22 12:30
M6PFDA	62.6	50-200	7/29/22 12:30
M3PFBS	97.9	50-200	7/29/22 12:30
M7PFUnA	63.8	50-200	7/29/22 12:30
M2-6:2FTS	144	50-200	7/29/22 12:30
M5PFPeA	119	50-200	7/29/22 12:30
M5PFHxA	77.4	50-200	7/29/22 12:30
M3PFHxS	100	50-200	7/29/22 12:30
M4PFHpA	73.8	50-200	7/29/22 12:30
M8PFOA	72.3	50-200	7/29/22 12:30
M8PFOS	97.2	50-200	7/29/22 12:30
M9PFNA	64.0	50-200	7/29/22 12:30
MPFDoA	62.5	50-200	7/29/22 12:30

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: WL-6A-M

Sampled: 6/28/2022 10:15

Sample ID: 22G0012-08

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	14	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL
Perfluorobutanesulfonic acid (PFBS)	5.9	1.8		ng/L	1	L-06, Z-01	EPA 533	7/26/22	7/29/22 12:37	DRL
Perfluoropentanoic acid (PFPeA)	34	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL
Perfluorohexanoic acid (PFHxA)	25	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL
Perfluorodecanoic acid (PFDA)	2.0	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL
Perfluorohexanesulfonic acid (PFHxS)	16	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.2	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL
Perfluoroheptanoic acid (PFHpA)	12	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL
Perfluorooctanoic acid (PFOA)	12	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL
Perfluorooctanesulfonic acid (PFOS)	44	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL
Perfluorononanoic acid (PFNA)	2.9	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 12:37	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	97.1	50-200	7/29/22 12:37
M2-8:2FTS	150	50-200	7/29/22 12:37
MPFBA	92.0	50-200	7/29/22 12:37
M3HFPO-DA	72.3	50-200	7/29/22 12:37
M6PFDA	80.1	50-200	7/29/22 12:37
M3PFBS	95.5	50-200	7/29/22 12:37
M7PFUnA	71.0	50-200	7/29/22 12:37
M2-6:2FTS	165	50-200	7/29/22 12:37
M5PFPeA	131	50-200	7/29/22 12:37
M5PFHxA	85.4	50-200	7/29/22 12:37
M3PFHxS	98.2	50-200	7/29/22 12:37
M4PFHpA	82.7	50-200	7/29/22 12:37
M8PFOA	85.4	50-200	7/29/22 12:37
M8PFOS	95.5	50-200	7/29/22 12:37
M9PFNA	83.6	50-200	7/29/22 12:37
MPFDoA	68.0	50-200	7/29/22 12:37

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: WL-6A-T

Sampled: 6/28/2022 10:20

Sample ID: 22G0012-09

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	14	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL
Perfluorobutanesulfonic acid (PFBS)	6.5	1.7		ng/L	1	L-06, Z-01	EPA 533	7/26/22	7/29/22 12:44	DRL
Perfluoropentanoic acid (PFPeA)	34	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL
Perfluorohexanoic acid (PFHxA)	25	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL
Perfluorohexanesulfonic acid (PFHxS)	16	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.2	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL
Perfluoroheptanoic acid (PFHpA)	11	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL
Perfluorooctanoic acid (PFOA)	11	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL
Perfluorooctanesulfonic acid (PFOS)	36	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL
Perfluorononanoic acid (PFNA)	2.5	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:44	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	91.7	50-200	7/29/22 12:44
M2-8:2FTS	123	50-200	7/29/22 12:44
MPFBA	89.5	50-200	7/29/22 12:44
M3HFPO-DA	86.8	50-200	7/29/22 12:44
M6PFDA	83.2	50-200	7/29/22 12:44
M3PFBS	87.8	50-200	7/29/22 12:44
M7PFUnA	75.4	50-200	7/29/22 12:44
M2-6:2FTS	118	50-200	7/29/22 12:44
M5PFPeA	122	50-200	7/29/22 12:44
M5PFHxA	86.6	50-200	7/29/22 12:44
M3PFHxS	89.2	50-200	7/29/22 12:44
M4PFHpA	86.3	50-200	7/29/22 12:44
M8PFOA	86.8	50-200	7/29/22 12:44
M8PFOS	91.8	50-200	7/29/22 12:44
M9PFNA	84.5	50-200	7/29/22 12:44
MPFDoA	65.0	50-200	7/29/22 12:44

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: WL-5A-B

Sampled: 6/28/2022 10:35

Sample ID: 22G0012-10

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	13	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL
Perfluorobutanesulfonic acid (PFBS)	5.9	1.7		ng/L	1	L-06, Z-01	EPA 533	7/26/22	7/29/22 12:51	DRL
Perfluoropentanoic acid (PFPeA)	32	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL
Perfluorohexanoic acid (PFHxA)	24	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL
Perfluorohexanesulfonic acid (PFHxS)	17	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.2	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL
Perfluoroheptanoic acid (PFHpA)	12	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL
Perfluorooctanoic acid (PFOA)	13	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL
Perfluorooctanesulfonic acid (PFOS)	45	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL
Perfluorononanoic acid (PFNA)	2.7	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 12:51	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	93.4	50-200	7/29/22 12:51
M2-8:2FTS	157	50-200	7/29/22 12:51
MPFBA	87.4	50-200	7/29/22 12:51
M3HFPO-DA	66.1	50-200	7/29/22 12:51
M6PFDA	67.8	50-200	7/29/22 12:51
M3PFBS	91.7	50-200	7/29/22 12:51
M7PFUnA	59.5	50-200	7/29/22 12:51
M2-6:2FTS	133	50-200	7/29/22 12:51
M5PFPeA	125	50-200	7/29/22 12:51
M5PFHxA	83.2	50-200	7/29/22 12:51
M3PFHxS	93.2	50-200	7/29/22 12:51
M4PFHpA	78.8	50-200	7/29/22 12:51
M8PFOA	74.7	50-200	7/29/22 12:51
M8PFOS	91.1	50-200	7/29/22 12:51
M9PFNA	75.0	50-200	7/29/22 12:51
MPFDoA	61.9	50-200	7/29/22 12:51

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: WL-5A-M

Sampled: 6/28/2022 10:40

Sample ID: 22G0012-11

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	14	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL
Perfluorobutanesulfonic acid (PFBS)	6.5	1.7		ng/L	1	L-06, Z-01	EPA 533	7/26/22	7/29/22 13:05	DRL
Perfluoropentanoic acid (PFPeA)	35	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL
Perfluorohexanoic acid (PFHxA)	25	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL
Perfluorodecanoic acid (PFDA)	1.9	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL
Perfluorohexanesulfonic acid (PFHxS)	17	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.1	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL
Perfluoroheptanoic acid (PFHpA)	12	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL
Perfluorooctanoic acid (PFOA)	12	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL
Perfluorooctanesulfonic acid (PFOS)	43	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL
Perfluorononanoic acid (PFNA)	2.9	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:05	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	95.1	50-200	7/29/22 13:05
M2-8:2FTS	134	50-200	7/29/22 13:05
MPFBA	87.6	50-200	7/29/22 13:05
M3HFPO-DA	72.9	50-200	7/29/22 13:05
M6PFDA	77.1	50-200	7/29/22 13:05
M3PFBS	92.6	50-200	7/29/22 13:05
M7PFUnA	72.0	50-200	7/29/22 13:05
M2-6:2FTS	129	50-200	7/29/22 13:05
M5PFPeA	119	50-200	7/29/22 13:05
M5PFHxA	80.5	50-200	7/29/22 13:05
M3PFHxS	93.0	50-200	7/29/22 13:05
M4PFHpA	75.7	50-200	7/29/22 13:05
M8PFOA	76.2	50-200	7/29/22 13:05
M8PFOS	96.0	50-200	7/29/22 13:05
M9PFNA	74.5	50-200	7/29/22 13:05
MPFDoA	68.9	50-200	7/29/22 13:05

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: WL-5A-T

Sampled: 6/28/2022 10:45

Sample ID: 22G0012-12

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	15	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL
Perfluorobutanesulfonic acid (PFBS)	6.4	1.7		ng/L	1	L-06, Z-01	EPA 533	7/26/22	7/29/22 13:13	DRL
Perfluoropentanoic acid (PFPeA)	34	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL
Perfluorohexanoic acid (PFHxA)	25	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL
Perfluorohexanesulfonic acid (PFHxS)	16	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.2	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL
Perfluoroheptanoic acid (PFHpA)	11	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL
Perfluorooctanoic acid (PFOA)	12	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL
Perfluorooctanesulfonic acid (PFOS)	38	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL
Perfluorononanoic acid (PFNA)	2.7	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:13	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	101	50-200	7/29/22 13:13
M2-8:2FTS	164	50-200	7/29/22 13:13
MPFBA	91.9	50-200	7/29/22 13:13
M3HFPO-DA	76.5	50-200	7/29/22 13:13
M6PFDA	84.9	50-200	7/29/22 13:13
M3PFBS	93.6	50-200	7/29/22 13:13
M7PFUnA	74.8	50-200	7/29/22 13:13
M2-6:2FTS	133	50-200	7/29/22 13:13
M5PFPeA	125	50-200	7/29/22 13:13
M5PFHxA	92.1	50-200	7/29/22 13:13
M3PFHxS	94.5	50-200	7/29/22 13:13
M4PFHpA	90.3	50-200	7/29/22 13:13
M8PFOA	88.3	50-200	7/29/22 13:13
M8PFOS	93.5	50-200	7/29/22 13:13
M9PFNA	85.3	50-200	7/29/22 13:13
MPFDoA	66.2	50-200	7/29/22 13:13

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: ML-1A-M

Sampled: 6/28/2022 11:35

Sample ID: 22G0012-13

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	4.3	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL
Perfluorobutanesulfonic acid (PFBS)	6.5	1.7		ng/L	1	L-06, Z-01	EPA 533	7/26/22	7/29/22 13:20	DRL
Perfluoropentanoic acid (PFPeA)	5.3	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL
Perfluorohexanoic acid (PFHxA)	4.0	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL
Perfluorohexanesulfonic acid (PFHxS)	3.5	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL
Perfluoroheptanoic acid (PFHpA)	3.5	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL
Perfluorooctanoic acid (PFOA)	6.8	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL
Perfluorooctanesulfonic acid (PFOS)	11	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:20	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	114	50-200	7/29/22 13:20
M2-8:2FTS	160	50-200	7/29/22 13:20
MPFBA	88.2	50-200	7/29/22 13:20
M3HFPO-DA	64.6	50-200	7/29/22 13:20
M6PFDA	84.6	50-200	7/29/22 13:20
M3PFBS	88.2	50-200	7/29/22 13:20
M7PFUnA	77.7	50-200	7/29/22 13:20
M2-6:2FTS	150	50-200	7/29/22 13:20
M5PFPeA	130	50-200	7/29/22 13:20
M5PFHxA	85.9	50-200	7/29/22 13:20
M3PFHxS	90.2	50-200	7/29/22 13:20
M4PFHpA	84.7	50-200	7/29/22 13:20
M8PFOA	84.8	50-200	7/29/22 13:20
M8PFOS	88.7	50-200	7/29/22 13:20
M9PFNA	85.9	50-200	7/29/22 13:20
MPFDoA	67.8	50-200	7/29/22 13:20

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: MC-4A- (6")

Sampled: 6/28/2022 13:05

Sample ID: 22G0012-14

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	5.4	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL
Perfluorobutanesulfonic acid (PFBS)	5.8	1.8		ng/L	1	L-06, Z-01	EPA 533	7/26/22	7/29/22 13:27	DRL
Perfluoropentanoic acid (PFPeA)	9.5	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL
Perfluorohexanoic acid (PFHxA)	6.0	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL
Perfluorohexanesulfonic acid (PFHxS)	5.6	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL
Perfluoroheptanoic acid (PFHpA)	4.0	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL
Perfluorooctanoic acid (PFOA)	7.3	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL
Perfluorooctanesulfonic acid (PFOS)	18	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:27	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	108	50-200	7/29/22 13:27
M2-8:2FTS	165	50-200	7/29/22 13:27
MPFBA	94.9	50-200	7/29/22 13:27
M3HFPO-DA	73.6	50-200	7/29/22 13:27
M6PFDA	79.6	50-200	7/29/22 13:27
M3PFBS	92.8	50-200	7/29/22 13:27
M7PFUnA	71.9	50-200	7/29/22 13:27
M2-6:2FTS	166	50-200	7/29/22 13:27
M5PFPeA	132	50-200	7/29/22 13:27
M5PFHxA	90.9	50-200	7/29/22 13:27
M3PFHxS	92.2	50-200	7/29/22 13:27
M4PFHpA	87.0	50-200	7/29/22 13:27
M8PFOA	85.6	50-200	7/29/22 13:27
M8PFOS	88.5	50-200	7/29/22 13:27
M9PFNA	82.5	50-200	7/29/22 13:27
MPFDoA	70.8	50-200	7/29/22 13:27

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: MC-4A (SW)

Sampled: 6/28/2022 13:10

Sample ID: 22G0012-15

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	6.0	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL
Perfluorobutanesulfonic acid (PFBS)	5.4	1.7		ng/L	1	L-06, Z-01	EPA 533	7/26/22	7/29/22 13:34	DRL
Perfluoropentanoic acid (PFPeA)	9.4	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL
Perfluorohexanoic acid (PFHxA)	6.6	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL
Perfluorohexanesulfonic acid (PFHxS)	6.0	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.8	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL
Perfluoroheptanoic acid (PFHpA)	4.2	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL
Perfluorooctanoic acid (PFOA)	7.5	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL
Perfluorooctanesulfonic acid (PFOS)	20	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:34	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	106	50-200	7/29/22 13:34
M2-8:2FTS	172	50-200	7/29/22 13:34
MPFBA	87.4	50-200	7/29/22 13:34
M3HFPO-DA	66.2	50-200	7/29/22 13:34
M6PFDA	64.1	50-200	7/29/22 13:34
M3PFBS	95.0	50-200	7/29/22 13:34
M7PFUnA	62.9	50-200	7/29/22 13:34
M2-6:2FTS	139	50-200	7/29/22 13:34
M5PFPeA	102	50-200	7/29/22 13:34
M5PFHxA	81.9	50-200	7/29/22 13:34
M3PFHxS	95.8	50-200	7/29/22 13:34
M4PFHpA	77.7	50-200	7/29/22 13:34
M8PFOA	74.3	50-200	7/29/22 13:34
M8PFOS	90.7	50-200	7/29/22 13:34
M9PFNA	68.0	50-200	7/29/22 13:34
MPFDoA	63.3	50-200	7/29/22 13:34

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: MC-3A (6")

Sampled: 6/28/2022 13:30

Sample ID: 22G0012-16

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	5.6	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL
Perfluorobutanesulfonic acid (PFBS)	5.9	1.7		ng/L	1	L-06, Z-01	EPA 533	7/26/22	7/29/22 13:41	DRL
Perfluoropentanoic acid (PFPeA)	8.5	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL
Perfluorohexanoic acid (PFHxA)	5.4	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL
Perfluorohexanesulfonic acid (PFHxS)	5.5	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.8	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL
Perfluoroheptanoic acid (PFHpA)	3.6	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL
Perfluorooctanoic acid (PFOA)	7.2	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL
Perfluorooctanesulfonic acid (PFOS)	16	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:41	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	102	50-200	7/29/22 13:41
M2-8:2FTS	157	50-200	7/29/22 13:41
MPFBA	92.9	50-200	7/29/22 13:41
M3HFPO-DA	73.2	50-200	7/29/22 13:41
M6PFDA	68.2	50-200	7/29/22 13:41
M3PFBS	91.5	50-200	7/29/22 13:41
M7PFUnA	62.1	50-200	7/29/22 13:41
M2-6:2FTS	154	50-200	7/29/22 13:41
M5PFPeA	128	50-200	7/29/22 13:41
M5PFHxA	93.3	50-200	7/29/22 13:41
M3PFHxS	91.9	50-200	7/29/22 13:41
M4PFHpA	88.0	50-200	7/29/22 13:41
M8PFOA	80.5	50-200	7/29/22 13:41
M8PFOS	91.2	50-200	7/29/22 13:41
M9PFNA	83.5	50-200	7/29/22 13:41
MPFDoA	64.9	50-200	7/29/22 13:41

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: MC-3A (SW)

Sampled: 6/28/2022 13:35

Sample ID: 22G0012-17

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	5.9	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL
Perfluorobutanesulfonic acid (PFBS)	6.1	1.7		ng/L	1	L-06, Z-01	EPA 533	7/26/22	7/29/22 13:49	DRL
Perfluoropentanoic acid (PFPeA)	9.3	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL
Perfluorohexanoic acid (PFHxA)	6.3	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL
Perfluorohexanesulfonic acid (PFHxS)	5.7	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.0	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL
Perfluoroheptanoic acid (PFHpA)	3.9	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL
Perfluorooctanoic acid (PFOA)	7.3	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL
Perfluorooctanesulfonic acid (PFOS)	17	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 13:49	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	103	50-200	7/29/22 13:49
M2-8:2FTS	148	50-200	7/29/22 13:49
MPFBA	84.8	50-200	7/29/22 13:49
M3HFPO-DA	69.4	50-200	7/29/22 13:49
M6PFDA	68.6	50-200	7/29/22 13:49
M3PFBS	93.0	50-200	7/29/22 13:49
M7PFUnA	64.0	50-200	7/29/22 13:49
M2-6:2FTS	146	50-200	7/29/22 13:49
M5PFPeA	97.6	50-200	7/29/22 13:49
M5PFHxA	80.7	50-200	7/29/22 13:49
M3PFHxS	89.7	50-200	7/29/22 13:49
M4PFHpA	77.6	50-200	7/29/22 13:49
M8PFOA	74.0	50-200	7/29/22 13:49
M8PFOS	91.0	50-200	7/29/22 13:49
M9PFNA	73.0	50-200	7/29/22 13:49
MPFDoA	68.4	50-200	7/29/22 13:49

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: ML-2A (6")

Sampled: 6/28/2022 14:00

Sample ID: 22G0012-18

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	4.4	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL
Perfluorobutanesulfonic acid (PFBS)	7.3	1.8		ng/L	1	L-06, Z-01	EPA 533	7/26/22	7/29/22 13:56	DRL
Perfluoropentanoic acid (PFPeA)	8.4	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL
Perfluorohexanoic acid (PFHxA)	6.0	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL
Perfluorohexanesulfonic acid (PFHxS)	4.8	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL
Perfluoroheptanoic acid (PFHpA)	4.8	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL
Perfluorooctanoic acid (PFOA)	9.6	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL
Perfluorooctanesulfonic acid (PFOS)	15	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 13:56	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	95.8	50-200	7/29/22 13:56
M2-8:2FTS	159	50-200	7/29/22 13:56
MPFBA	85.7	50-200	7/29/22 13:56
M3HFPO-DA	62.8	50-200	7/29/22 13:56
M6PFDA	78.9	50-200	7/29/22 13:56
M3PFBS	91.0	50-200	7/29/22 13:56
M7PFUnA	75.7	50-200	7/29/22 13:56
M2-6:2FTS	146	50-200	7/29/22 13:56
M5PFPeA	106	50-200	7/29/22 13:56
M5PFHxA	83.2	50-200	7/29/22 13:56
M3PFHxS	89.5	50-200	7/29/22 13:56
M4PFHpA	81.6	50-200	7/29/22 13:56
M8PFOA	81.5	50-200	7/29/22 13:56
M8PFOS	87.7	50-200	7/29/22 13:56
M9PFNA	82.6	50-200	7/29/22 13:56
MPFDoA	78.1	50-200	7/29/22 13:56

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: ML-2A (SW)

Sampled: 6/28/2022 14:05

Sample ID: 22G0012-19

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	4.5	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL
Perfluorobutanesulfonic acid (PFBS)	8.1	1.7		ng/L	1	L-06, Z-01	EPA 533	7/26/22	7/29/22 14:03	DRL
Perfluoropentanoic acid (PFPeA)	9.2	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL
Perfluorohexanoic acid (PFHxA)	6.1	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL
Perfluorohexanesulfonic acid (PFHxS)	5.4	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL
Perfluoroheptanoic acid (PFHpA)	4.6	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL
Perfluorooctanoic acid (PFOA)	9.6	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL
Perfluorooctanesulfonic acid (PFOS)	31	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/29/22 14:03	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	103	50-200	
M2-8:2FTS	183	50-200	
MPFBA	87.7	50-200	
M3HFPO-DA	63.3	50-200	
M6PFDA	81.6	50-200	
M3PFBS	94.7	50-200	
M7PFUnA	77.0	50-200	
M2-6:2FTS	206	50-200	Z-01a
M5PFPeA	106	50-200	
M5PFHxA	82.8	50-200	
M3PFHxS	92.8	50-200	
M4PFHpA	80.6	50-200	
M8PFOA	85.1	50-200	
M8PFOS	91.3	50-200	
M9PFNA	83.3	50-200	
MPFDoA	74.0	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: ML-3A (6")

Sampled: 6/28/2022 14:20

Sample ID: 22G0012-20

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	5.7	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL
Perfluorobutanesulfonic acid (PFBS)	7.7	1.8		ng/L	1	L-06, Z-01	EPA 533	7/26/22	7/29/22 14:10	DRL
Perfluoropentanoic acid (PFPeA)	9.6	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL
Perfluorohexanoic acid (PFHxA)	6.1	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL
Perfluorohexanesulfonic acid (PFHxS)	2.9	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL
Perfluoroheptanoic acid (PFHpA)	4.8	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL
Perfluorooctanoic acid (PFOA)	8.8	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL
Perfluorooctanesulfonic acid (PFOS)	14	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/29/22 14:10	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	109	50-200	7/29/22 14:10
M2-8:2FTS	159	50-200	7/29/22 14:10
MPFBA	90.1	50-200	7/29/22 14:10
M3HFPO-DA	75.8	50-200	7/29/22 14:10
M6PFDA	88.4	50-200	7/29/22 14:10
M3PFBS	92.5	50-200	7/29/22 14:10
M7PFUnA	71.0	50-200	7/29/22 14:10
M2-6:2FTS	160	50-200	7/29/22 14:10
M5PFPeA	126	50-200	7/29/22 14:10
M5PFHxA	89.3	50-200	7/29/22 14:10
M3PFHxS	91.9	50-200	7/29/22 14:10
M4PFHpA	86.1	50-200	7/29/22 14:10
M8PFOA	86.5	50-200	7/29/22 14:10
M8PFOS	90.5	50-200	7/29/22 14:10
M9PFNA	85.5	50-200	7/29/22 14:10
MPFDoA	79.9	50-200	7/29/22 14:10

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: ML-3A (SW)

Sampled: 6/28/2022 14:25

Sample ID: 22G0012-21

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	4.4	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
Perfluorobutanesulfonic acid (PFBS)	3.9	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
Perfluoropentanoic acid (PFPeA)	7.8	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
Perfluorohexanoic acid (PFHxA)	5.3	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
Perfluorohexanesulfonic acid (PFHxS)	2.4	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
Perfluoroheptanoic acid (PFHpA)	4.0	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
Perfluorooctanoic acid (PFOA)	7.9	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
Perfluorooctanesulfonic acid (PFOS)	9.6	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:06	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	89.3	50-200	
M2-8:2FTS	135	50-200	
MPFBA	72.7	50-200	
M3HFPO-DA	45.8 *	50-200	PF-01
M6PFDA	66.3	50-200	
M3PFBS	73.9	50-200	
M7PFUnA	67.6	50-200	
M2-6:2FTS	140	50-200	
M5PFPeA	96.1	50-200	
M5PFHxA	65.7	50-200	
M3PFHxS	75.4	50-200	
M4PFHpA	65.4	50-200	
M8PFOA	65.8	50-200	
M8PFOS	74.9	50-200	
M9PFNA	68.2	50-200	
MPFDoA	71.8	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: MC-2A (6")

Sampled: 6/28/2022 15:45

Sample ID: 22G0012-22

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	5.0	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
Perfluorobutanesulfonic acid (PFBS)	2.6	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
Perfluoropentanoic acid (PFPeA)	9.1	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
Perfluorohexanoic acid (PFHxA)	6.5	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
Perfluorohexanesulfonic acid (PFHxS)	6.7	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.8	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
Perfluoroheptanoic acid (PFHpA)	3.7	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
Perfluorooctanoic acid (PFOA)	6.4	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
Perfluorooctanesulfonic acid (PFOS)	16	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:13	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	98.8	50-200	7/28/22 18:13
M2-8:2FTS	156	50-200	7/28/22 18:13
MPFBA	84.7	50-200	7/28/22 18:13
M3HFPO-DA	60.4	50-200	7/28/22 18:13
M6PFDA	80.5	50-200	7/28/22 18:13
M3PFBS	84.8	50-200	7/28/22 18:13
M7PFUnA	83.8	50-200	7/28/22 18:13
M2-6:2FTS	166	50-200	7/28/22 18:13
M5PFPeA	112	50-200	7/28/22 18:13
M5PFHxA	83.6	50-200	7/28/22 18:13
M3PFHxS	85.2	50-200	7/28/22 18:13
M4PFHpA	81.9	50-200	7/28/22 18:13
M8PFOA	86.1	50-200	7/28/22 18:13
M8PFOS	86.4	50-200	7/28/22 18:13
M9PFNA	83.5	50-200	7/28/22 18:13
MPFDoA	90.0	50-200	7/28/22 18:13

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: MC-2A (SW)

Sampled: 6/28/2022 15:50

Sample ID: 22G0012-23

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	5.1	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
Perfluorobutanesulfonic acid (PFBS)	2.6	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
Perfluoropentanoic acid (PFPeA)	9.2	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
Perfluorohexanoic acid (PFHxA)	6.5	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
Perfluorohexanesulfonic acid (PFHxS)	7.2	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.9	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
Perfluoroheptanoic acid (PFHpA)	3.8	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
Perfluorooctanoic acid (PFOA)	6.5	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
Perfluorooctanesulfonic acid (PFOS)	16	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:21	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	118	50-200	7/28/22 18:21
M2-8:2FTS	169	50-200	7/28/22 18:21
MPFBA	93.9	50-200	7/28/22 18:21
M3HFPO-DA	59.9	50-200	7/28/22 18:21
M6PFDA	79.3	50-200	7/28/22 18:21
M3PFBS	98.3	50-200	7/28/22 18:21
M7PFUnA	81.0	50-200	7/28/22 18:21
M2-6:2FTS	176	50-200	7/28/22 18:21
M5PFPeA	108	50-200	7/28/22 18:21
M5PFHxA	86.0	50-200	7/28/22 18:21
M3PFHxS	93.8	50-200	7/28/22 18:21
M4PFHpA	81.9	50-200	7/28/22 18:21
M8PFOA	82.3	50-200	7/28/22 18:21
M8PFOS	94.7	50-200	7/28/22 18:21
M9PFNA	80.9	50-200	7/28/22 18:21
MPFDoA	71.5	50-200	7/28/22 18:21

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: MC-1A (6")

Sampled: 6/28/2022 15:20

Sample ID: 22G0012-24

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	3.0	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
Perfluorobutanesulfonic acid (PFBS)	2.3	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
Perfluoropentanoic acid (PFPeA)	5.6	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
Perfluorohexanoic acid (PFHxA)	3.9	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
Perfluorohexanesulfonic acid (PFHxS)	2.8	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.2	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
Perfluoroheptanoic acid (PFHpA)	1.9	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
Perfluorooctanoic acid (PFOA)	4.7	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
Perfluorooctanesulfonic acid (PFOS)	9.1	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:28	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	95.2	50-200	7/28/22 18:28
M2-8:2FTS	145	50-200	7/28/22 18:28
MPFBA	79.8	50-200	7/28/22 18:28
M3HFPO-DA	57.9	50-200	7/28/22 18:28
M6PFDA	69.4	50-200	7/28/22 18:28
M3PFBS	82.8	50-200	7/28/22 18:28
M7PFUnA	68.0	50-200	7/28/22 18:28
M2-6:2FTS	163	50-200	7/28/22 18:28
M5PFPeA	104	50-200	7/28/22 18:28
M5PFHxA	77.0	50-200	7/28/22 18:28
M3PFHxS	82.8	50-200	7/28/22 18:28
M4PFHpA	75.6	50-200	7/28/22 18:28
M8PFOA	73.9	50-200	7/28/22 18:28
M8PFOS	82.7	50-200	7/28/22 18:28
M9PFNA	69.5	50-200	7/28/22 18:28
MPFDoA	72.0	50-200	7/28/22 18:28

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: MC-1A (SW)

Sampled: 6/28/2022 15:25

Sample ID: 22G0012-25

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	3.5	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
Perfluorobutanesulfonic acid (PFBS)	2.5	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
Perfluoropentanoic acid (PFPeA)	5.6	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
Perfluorohexanoic acid (PFHxA)	3.8	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
Perfluorohexanesulfonic acid (PFHxS)	2.6	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.3	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
Perfluoroheptanoic acid (PFHpA)	2.1	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
Perfluorooctanoic acid (PFOA)	5.1	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
Perfluorooctanesulfonic acid (PFOS)	9.2	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:35	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	110	50-200	7/28/22 18:35
M2-8:2FTS	166	50-200	7/28/22 18:35
MPFBA	89.3	50-200	7/28/22 18:35
M3HFPO-DA	74.7	50-200	7/28/22 18:35
M6PFDA	91.5	50-200	7/28/22 18:35
M3PFBS	91.5	50-200	7/28/22 18:35
M7PFUnA	65.3	50-200	7/28/22 18:35
M2-6:2FTS	190	50-200	7/28/22 18:35
M5PFPeA	119	50-200	7/28/22 18:35
M5PFHxA	93.0	50-200	7/28/22 18:35
M3PFHxS	93.3	50-200	7/28/22 18:35
M4PFHpA	92.4	50-200	7/28/22 18:35
M8PFOA	91.7	50-200	7/28/22 18:35
M8PFOS	94.8	50-200	7/28/22 18:35
M9PFNA	91.9	50-200	7/28/22 18:35
MPFDoA	63.0	50-200	7/28/22 18:35

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: SS-6A (6")

Sampled: 6/28/2022 15:05

Sample ID: 22G0012-26

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	14	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
Perfluorobutanesulfonic acid (PFBS)	4.6	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
Perfluoropentanoic acid (PFPeA)	31	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
Perfluorohexanoic acid (PFHxA)	21	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
Perfluorodecanoic acid (PFDA)	2.1	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
Perfluorohexanesulfonic acid (PFHxS)	29	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
Perfluoropetanesulfonic acid (PFPeS)	2.7	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
Perfluoroheptanoic acid (PFHpA)	13	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
Perfluorooctanoic acid (PFOA)	19	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
Perfluorooctanesulfonic acid (PFOS)	62	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL
Perfluorononanoic acid (PFNA)	4.5	1.9		ng/L	1		EPA 533	7/26/22	7/28/22 18:42	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	132	50-200	7/28/22 18:42
M2-8:2FTS	174	50-200	7/28/22 18:42
MPFBA	101	50-200	7/28/22 18:42
M3HFPO-DA	69.8	50-200	7/28/22 18:42
M6PFDA	90.8	50-200	7/28/22 18:42
M3PFBS	99.8	50-200	7/28/22 18:42
M7PFUnA	97.5	50-200	7/28/22 18:42
M2-6:2FTS	180	50-200	7/28/22 18:42
M5PFPeA	143	50-200	7/28/22 18:42
M5PFHxA	98.3	50-200	7/28/22 18:42
M3PFHxS	95.0	50-200	7/28/22 18:42
M4PFHpA	94.1	50-200	7/28/22 18:42
M8PFOA	88.6	50-200	7/28/22 18:42
M8PFOS	90.6	50-200	7/28/22 18:42
M9PFNA	93.2	50-200	7/28/22 18:42
MPFDoA	86.5	50-200	7/28/22 18:42

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: SS-6A (SW)

Sampled: 6/28/2022 15:10

Sample ID: 22G0012-27

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	15	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
Perfluorobutanesulfonic acid (PFBS)	4.8	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
Perfluoropentanoic acid (PFPeA)	32	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
Perfluorohexanoic acid (PFHxA)	22	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
Perfluorodecanoic acid (PFDA)	2.3	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
Perfluorohexanesulfonic acid (PFHxS)	30	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.8	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
Perfluoroheptanoic acid (PFHpA)	14	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
Perfluorooctanoic acid (PFOA)	19	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
Perfluorooctanesulfonic acid (PFOS)	65	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL
Perfluorononanoic acid (PFNA)	4.4	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 18:49	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	106	50-200	7/28/22 18:49
M2-8:2FTS	151	50-200	7/28/22 18:49
MPFBA	85.3	50-200	7/28/22 18:49
M3HFPO-DA	58.4	50-200	7/28/22 18:49
M6PFDA	82.4	50-200	7/28/22 18:49
M3PFBS	84.6	50-200	7/28/22 18:49
M7PFUnA	86.4	50-200	7/28/22 18:49
M2-6:2FTS	151	50-200	7/28/22 18:49
M5PFPeA	116	50-200	7/28/22 18:49
M5PFHxA	81.0	50-200	7/28/22 18:49
M3PFHxS	82.9	50-200	7/28/22 18:49
M4PFHpA	79.9	50-200	7/28/22 18:49
M8PFOA	82.3	50-200	7/28/22 18:49
M8PFOS	83.3	50-200	7/28/22 18:49
M9PFNA	83.1	50-200	7/28/22 18:49
MPFDoA	90.8	50-200	7/28/22 18:49

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: SS-5A (6'')

Sampled: 6/28/2022 16:15

Sample ID: 22G0012-28

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	16	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
Perfluorobutanesulfonic acid (PFBS)	5.2	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
Perfluoropentanoic acid (PFPeA)	38	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
Perfluorohexanoic acid (PFHxA)	27	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	2.2	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
Perfluorodecanoic acid (PFDA)	2.9	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
Perfluorohexanesulfonic acid (PFHxS)	33	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	5.4	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
Perfluoropentanesulfonic acid (PFPeS)	3.2	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
Perfluoroheptanoic acid (PFHpA)	15	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
Perfluorooctanoic acid (PFOA)	20	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
Perfluorooctanesulfonic acid (PFOS)	76	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL
Perfluorononanoic acid (PFNA)	4.8	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 18:57	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	134	50-200	
M2-8:2FTS	169	50-200	
MPFBA	86.3	50-200	
M3HFPO-DA	48.9 *	50-200	PF-01
M6PFDA	75.0	50-200	
M3PFBS	81.2	50-200	
M7PFUnA	78.1	50-200	
M2-6:2FTS	173	50-200	
M5PFPeA	114	50-200	
M5PFHxA	81.2	50-200	
M3PFHxS	83.2	50-200	
M4PFHpA	79.4	50-200	
M8PFOA	77.8	50-200	
M8PFOS	83.1	50-200	
M9PFNA	81.8	50-200	
MPFDoA	74.5	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: SS-5A (SW)

Sampled: 6/28/2022 16:20

Sample ID: 22G0012-29

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	19	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
Perfluorobutanesulfonic acid (PFBS)	6.3	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
Perfluoropentanoic acid (PFPeA)	40	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
Perfluorohexanoic acid (PFHxA)	29	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	2.3	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
Perfluorodecanoic acid (PFDA)	3.0	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
Perfluoroheptanesulfonic acid (PFHpS)	1.8	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
Perfluorohexanesulfonic acid (PFHxS)	36	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	5.3	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
Perfluoropentanesulfonic acid (PFPeS)	3.3	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
Perfluoroheptanoic acid (PFHpA)	16	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
Perfluorooctanoic acid (PFOA)	22	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
Perfluorooctanesulfonic acid (PFOS)	83	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL
Perfluorononanoic acid (PFNA)	5.6	1.7		ng/L	1		EPA 533	7/26/22	7/28/22 19:04	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	149	50-200	
M2-8:2FTS	190	50-200	
MPFBA	88.3	50-200	
M3HFPO-DA	56.8	50-200	
M6PFDA	82.0	50-200	
M3PFBS	87.7	50-200	
M7PFUnA	84.2	50-200	
M2-6:2FTS	206	50-200	PF-01
M5PFPeA	121	50-200	
M5PFHxA	87.5	50-200	
M3PFHxS	87.6	50-200	
M4PFHpA	84.9	50-200	
M8PFOA	86.0	50-200	
M8PFOS	85.7	50-200	
M9PFNA	82.0	50-200	
MPFDoA	87.2	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: SS-3A

Sampled: 6/29/2022 09:00

Sample ID: 22G0012-30

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	19	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
Perfluorobutanesulfonic acid (PFBS)	4.5	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
Perfluoropentanoic acid (PFPeA)	37	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
Perfluorohexanoic acid (PFHxA)	22	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
Perfluorohexanesulfonic acid (PFHxS)	30	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
Perfluoropetanesulfonic acid (PFPeS)	2.4	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
Perfluoroheptanoic acid (PFHpA)	11	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
Perfluorooctanoic acid (PFOA)	14	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
Perfluorooctanesulfonic acid (PFOS)	35	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL
Perfluorononanoic acid (PFNA)	2.7	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:11	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	114	50-200	7/28/22 19:11
M2-8:2FTS	166	50-200	7/28/22 19:11
MPFBA	96.7	50-200	7/28/22 19:11
M3HFPO-DA	65.5	50-200	7/28/22 19:11
M6PFDA	91.6	50-200	7/28/22 19:11
M3PFBS	98.3	50-200	7/28/22 19:11
M7PFUnA	75.1	50-200	7/28/22 19:11
M2-6:2FTS	173	50-200	7/28/22 19:11
M5PFPeA	123	50-200	7/28/22 19:11
M5PFHxA	91.8	50-200	7/28/22 19:11
M3PFHxS	97.8	50-200	7/28/22 19:11
M4PFHpA	94.0	50-200	7/28/22 19:11
M8PFOA	96.9	50-200	7/28/22 19:11
M8PFOS	93.4	50-200	7/28/22 19:11
M9PFNA	92.9	50-200	7/28/22 19:11
MPFDoA	82.0	50-200	7/28/22 19:11

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: SS-3A

Sampled: 6/29/2022 09:05

Sample ID: 22G0012-31

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	20	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
Perfluorobutanesulfonic acid (PFBS)	4.9	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
Perfluoropentanoic acid (PFPeA)	38	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
Perfluorohexanoic acid (PFHxA)	23	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
Perfluorohexanesulfonic acid (PFHxS)	33	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
Perfluoropetanesulfonic acid (PFPeS)	2.6	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
Perfluoroheptanoic acid (PFHpA)	12	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
Perfluorooctanoic acid (PFOA)	15	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
Perfluorooctanesulfonic acid (PFOS)	35	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL
Perfluorononanoic acid (PFNA)	3.0	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:25	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	103	50-200	7/28/22 19:25
M2-8:2FTS	146	50-200	7/28/22 19:25
MPFBA	84.2	50-200	7/28/22 19:25
M3HFPO-DA	61.8	50-200	7/28/22 19:25
M6PFDA	81.3	50-200	7/28/22 19:25
M3PFBS	91.7	50-200	7/28/22 19:25
M7PFUnA	70.6	50-200	7/28/22 19:25
M2-6:2FTS	156	50-200	7/28/22 19:25
M5PFPeA	94.3	50-200	7/28/22 19:25
M5PFHxA	79.6	50-200	7/28/22 19:25
M3PFHxS	88.7	50-200	7/28/22 19:25
M4PFHpA	80.5	50-200	7/28/22 19:25
M8PFOA	84.5	50-200	7/28/22 19:25
M8PFOS	93.7	50-200	7/28/22 19:25
M9PFNA	79.5	50-200	7/28/22 19:25
MPFDoA	73.6	50-200	7/28/22 19:25

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: SS-2A

Sampled: 6/29/2022 09:30

Sample ID: 22G0012-32

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	23	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
Perfluorobutanesulfonic acid (PFBS)	5.4	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
Perfluoropentanoic acid (PFPeA)	45	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
Perfluorohexanoic acid (PFHxA)	27	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
Perfluorohexanesulfonic acid (PFHxS)	37	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.9	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
Perfluoropetanesulfonic acid (PFPeS)	3.1	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
Perfluoroheptanoic acid (PFHpA)	13	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
Perfluorooctanoic acid (PFOA)	17	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
Perfluorooctanesulfonic acid (PFOS)	44	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL
Perfluorononanoic acid (PFNA)	2.5	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:33	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	83.9	50-200	7/28/22 19:33
M2-8:2FTS	119	50-200	7/28/22 19:33
MPFBA	75.1	50-200	7/28/22 19:33
M3HFPO-DA	57.4	50-200	7/28/22 19:33
M6PFDA	69.3	50-200	7/28/22 19:33
M3PFBS	79.8	50-200	7/28/22 19:33
M7PFUnA	57.5	50-200	7/28/22 19:33
M2-6:2FTS	136	50-200	7/28/22 19:33
M5PFPeA	88.2	50-200	7/28/22 19:33
M5PFHxA	70.0	50-200	7/28/22 19:33
M3PFHxS	79.3	50-200	7/28/22 19:33
M4PFHpA	68.1	50-200	7/28/22 19:33
M8PFOA	69.3	50-200	7/28/22 19:33
M8PFOS	73.6	50-200	7/28/22 19:33
M9PFNA	69.1	50-200	7/28/22 19:33
MPFDoA	71.0	50-200	7/28/22 19:33

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: SS-2A

Sampled: 6/29/2022 09:35

Sample ID: 22G0012-33

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	20	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
Perfluorobutanesulfonic acid (PFBS)	4.9	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
Perfluoropentanoic acid (PFPeA)	38	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
Perfluorohexanoic acid (PFHxA)	23	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
Perfluorohexanesulfonic acid (PFHxS)	31	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.8	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.6	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
Perfluoroheptanoic acid (PFHpA)	11	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
Perfluorooctanoic acid (PFOA)	14	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
Perfluorooctanesulfonic acid (PFOS)	36	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL
Perfluorononanoic acid (PFNA)	2.2	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:40	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	94.9	50-200	7/28/22 19:40
M2-8:2FTS	130	50-200	7/28/22 19:40
MPFBA	82.7	50-200	7/28/22 19:40
M3HFPO-DA	64.4	50-200	7/28/22 19:40
M6PFDA	78.3	50-200	7/28/22 19:40
M3PFBS	89.0	50-200	7/28/22 19:40
M7PFUnA	68.5	50-200	7/28/22 19:40
M2-6:2FTS	143	50-200	7/28/22 19:40
M5PFPeA	91.4	50-200	7/28/22 19:40
M5PFHxA	80.3	50-200	7/28/22 19:40
M3PFHxS	92.2	50-200	7/28/22 19:40
M4PFHpA	80.6	50-200	7/28/22 19:40
M8PFOA	80.9	50-200	7/28/22 19:40
M8PFOS	87.9	50-200	7/28/22 19:40
M9PFNA	81.6	50-200	7/28/22 19:40
MPFDoA	73.6	50-200	7/28/22 19:40

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: SS-1A

Sampled: 6/29/2022 09:45

Sample ID: 22G0012-34

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	13	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
Perfluorobutanesulfonic acid (PFBS)	20	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
Perfluoropentanoic acid (PFPeA)	27	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
Perfluorohexanoic acid (PFHxA)	17	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
Perfluorohexanesulfonic acid (PFHxS)	20	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.1	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
Perfluoroheptanoic acid (PFHpA)	7.3	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
Perfluorooctanoic acid (PFOA)	9.5	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
Perfluorooctanesulfonic acid (PFOS)	21	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:47	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	122	50-200	7/28/22 19:47
M2-8:2FTS	137	50-200	7/28/22 19:47
MPFBA	95.2	50-200	7/28/22 19:47
M3HFPO-DA	68.8	50-200	7/28/22 19:47
M6PFDA	82.0	50-200	7/28/22 19:47
M3PFBS	97.8	50-200	7/28/22 19:47
M7PFUnA	67.4	50-200	7/28/22 19:47
M2-6:2FTS	196	50-200	7/28/22 19:47
M5PFPeA	121	50-200	7/28/22 19:47
M5PFHxA	90.4	50-200	7/28/22 19:47
M3PFHxS	97.9	50-200	7/28/22 19:47
M4PFHpA	88.6	50-200	7/28/22 19:47
M8PFOA	94.7	50-200	7/28/22 19:47
M8PFOS	94.1	50-200	7/28/22 19:47
M9PFNA	96.5	50-200	7/28/22 19:47
MPFDoA	88.0	50-200	7/28/22 19:47

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: SS-1A

Sampled: 6/29/2022 09:50

Sample ID: 22G0012-35

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	12	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
Perfluorobutanesulfonic acid (PFBS)	19	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
Perfluoropentanoic acid (PFPeA)	26	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
Perfluorohexanoic acid (PFHxA)	16	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
Perfluorohexanesulfonic acid (PFHxS)	20	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.2	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
Perfluoropetanesulfonic acid (PFPeS)	1.8	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
Perfluoroheptanoic acid (PFHpA)	7.3	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
Perfluorooctanoic acid (PFOA)	9.5	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
Perfluorooctanesulfonic acid (PFOS)	25	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 19:54	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	141	50-200	
M2-8:2FTS	160	50-200	
MPFBA	95.2	50-200	
M3HFPO-DA	62.9	50-200	
M6PFDA	85.0	50-200	
M3PFBS	105	50-200	
M7PFUnA	77.1	50-200	
M2-6:2FTS	213	50-200	PF-01
M5PFPeA	126	50-200	
M5PFHxA	95.3	50-200	
M3PFHxS	99.2	50-200	
M4PFHpA	92.8	50-200	
M8PFOA	92.9	50-200	
M8PFOS	99.6	50-200	
M9PFNA	95.7	50-200	
MPFDoA	50.0	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: RP-1A

Sampled: 6/29/2022 10:40

Sample ID: 22G0012-36

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	55	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:01	DRL
Perfluorobutanesulfonic acid (PFBS)	24	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:01	DRL
Perfluoropentanoic acid (PFPeA)	140	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:01	DRL
Perfluorohexanoic acid (PFHxA)	110	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:01	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:01	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:01	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:01	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:01	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	15	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:01	DRL
Perfluorodecanoic acid (PFDA)	10	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:01	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:01	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:01	DRL
Perfluoroheptanesulfonic acid (PFHpS)	12	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:01	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	2.7	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:01	DRL
Perfluorohexanesulfonic acid (PFHxS)	170	20		ng/L	1		EPA 533	8/3/22	8/6/22 11:50	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:01	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:01	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	110	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:01	DRL
Perfluoropentanesulfonic acid (PFPeS)	24	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:01	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:01	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:01	DRL
Perfluoroheptanoic acid (PFHpA)	54	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:01	DRL
Perfluorooctanoic acid (PFOA)	52	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:01	DRL
Perfluorooctanesulfonic acid (PFOS)	470	20		ng/L	1		EPA 533	8/3/22	8/6/22 11:50	BLH
Perfluorononanoic acid (PFNA)	15	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:01	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	140	50-200	
M2-8:2FTS	179	50-200	
MPFBA	89.9	50-200	
M3HFPO-DA	63.1	50-200	
M6PFDA	89.5	50-200	
M3PFBS	95.3	50-200	
M7PFUnA	94.0	50-200	
M2-6:2FTS	201	50-200	PF-01
M5PFPeA	108	50-200	
M5PFHxA	92.4	50-200	
M3PFHxS	126	50-200	
M3PFHxS	92.3	50-200	
M4PFHpA	89.4	50-200	
M8PFOA	87.1	50-200	
M8PFOS	133	50-200	
M8PFOS	86.2	50-200	
M9PFNA	85.8	50-200	
MPFDoA	88.4	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: RP-1A

Sampled: 6/29/2022 10:45

Sample ID: 22G0012-37

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	55	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:08	DRL
Perfluorobutanesulfonic acid (PFBS)	25	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:08	DRL
Perfluoropentanoic acid (PFPeA)	150	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:08	DRL
Perfluorohexanoic acid (PFHxA)	120	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:08	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:08	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:08	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:08	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:08	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:08	DRL
Perfluorodecanoic acid (PFDA)	11	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:08	DRL
Perfluorododecanoic acid (PFDoA)	3.5	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:08	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:08	DRL
Perfluoroheptanesulfonic acid (PFHpS)	13	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:08	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	2.8	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:08	DRL
Perfluorohexanesulfonic acid (PFHxS)	160	20		ng/L	1		EPA 533	8/3/22	8/6/22 11:57	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:08	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:08	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	100	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:08	DRL
Perfluoropentanesulfonic acid (PFPeS)	24	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:08	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:08	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:08	DRL
Perfluoroheptanoic acid (PFHpA)	57	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:08	DRL
Perfluorooctanoic acid (PFOA)	54	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:08	DRL
Perfluorooctanesulfonic acid (PFOS)	470	20		ng/L	1		EPA 533	8/3/22	8/6/22 11:57	BLH
Perfluorononanoic acid (PFNA)	22	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:08	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	158	50-200	
M2-8:2FTS	198	50-200	
MPFBA	90.5	50-200	
M3HFPO-DA	60.6	50-200	
M6PFDA	91.7	50-200	
M3PFBS	98.6	50-200	
M7PFUnA	85.2	50-200	
M2-6:2FTS	233	50-200	PF-01
M5PFPeA	117	50-200	
M5PFHxA	96.5	50-200	
M3PFHxS	155	50-200	
M3PFHxS	97.4	50-200	
M4PFHpA	93.8	50-200	
M8PFOA	92.5	50-200	
M8PFOS	146	50-200	
M8PFOS	84.7	50-200	
M9PFNA	86.2	50-200	
MPFDoA	94.8	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: RP-2A

Sampled: 6/29/2022 10:55

Sample ID: 22G0012-38

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	52	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:16	DRL
Perfluorobutanesulfonic acid (PFBS)	24	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:16	DRL
Perfluoropentanoic acid (PFPeA)	130	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:16	DRL
Perfluorohexanoic acid (PFHxA)	110	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:16	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:16	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:16	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:16	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:16	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	20	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:16	DRL
Perfluorodecanoic acid (PFDA)	7.6	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:16	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:16	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:16	DRL
Perfluoroheptanesulfonic acid (PFHpS)	11	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:16	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	2.6	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:16	DRL
Perfluorohexanesulfonic acid (PFHxS)	190	20		ng/L	1		EPA 533	8/3/22	8/6/22 12:05	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:16	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:16	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	120	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:16	DRL
Perfluoropentanesulfonic acid (PFPeS)	24	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:16	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:16	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:16	DRL
Perfluoroheptanoic acid (PFHpA)	50	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:16	DRL
Perfluorooctanoic acid (PFOA)	46	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:16	DRL
Perfluorooctanesulfonic acid (PFOS)	510	20		ng/L	1		EPA 533	8/3/22	8/6/22 12:05	BLH
Perfluorononanoic acid (PFNA)	11	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:16	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	147	50-200	
M2-8:2FTS	226 *	50-200	PF-01
MPFBA	90.7	50-200	
M3HFPO-DA	41.2 *	50-200	PF-01
M6PFDA	85.1	50-200	
M3PFBS	100	50-200	
M7PFUnA	73.8	50-200	
M2-6:2FTS	301 *	50-200	PF-01
M5PFPeA	114	50-200	
M5PFHxA	87.7	50-200	
M3PFHxS	104	50-200	
M3PFHxS	93.7	50-200	
M4PFHpA	83.0	50-200	
M8PFOA	87.4	50-200	
M8PFOS	102	50-200	
M8PFOS	89.8	50-200	
M9PFNA	82.6	50-200	
MPFDoA	81.4	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: RP-2A

Sampled: 6/29/2022 11:00

Sample ID: 22G0012-39

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	55	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:23	DRL
Perfluorobutanesulfonic acid (PFBS)	24	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:23	DRL
Perfluoropentanoic acid (PFPeA)	150	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:23	DRL
Perfluorohexanoic acid (PFHxA)	120	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:23	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:23	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:23	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:23	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:23	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	25	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:23	DRL
Perfluorodecanoic acid (PFDA)	9.6	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:23	DRL
Perfluorododecanoic acid (PFDoA)	2.4	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:23	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:23	DRL
Perfluoroheptanesulfonic acid (PFHpS)	12	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:23	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	3.2	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:23	DRL
Perfluorohexanesulfonic acid (PFHxS)	170	20		ng/L	1		EPA 533	8/3/22	8/6/22 12:12	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:23	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:23	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	120	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:23	DRL
Perfluoropetanesulfonic acid (PFPeS)	25	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:23	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:23	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:23	DRL
Perfluoroheptanoic acid (PFHpA)	51	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:23	DRL
Perfluorooctanoic acid (PFOA)	52	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:23	DRL
Perfluorooctanesulfonic acid (PFOS)	450	20		ng/L	1		EPA 533	8/3/22	8/6/22 12:12	BLH
Perfluorononanoic acid (PFNA)	13	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:23	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	65.9	50-200	
M2-8:2FTS	95.3	50-200	
MPFBA	48.0 *	50-200	PF-01
M3HFPO-DA	31.4 *	50-200	PF-01
M6PFDA	46.9 *	50-200	PF-01
M3PFBS	50.9	50-200	
M7PFUnA	45.9 *	50-200	PF-01
M2-6:2FTS	118	50-200	
M5PFPeA	55.5	50-200	
M5PFHxA	46.8 *	50-200	PF-01
M3PFHxS	138	50-200	
M3PFHxS	46.5 *	50-200	PF-01
M4PFHpA	46.7 *	50-200	PF-01
M8PFOA	45.7 *	50-200	PF-01
M8PFOS	47.9 *	50-200	PF-01
M8PFOS	146	50-200	
M9PFNA	45.7 *	50-200	PF-01
MPFDoA	47.8 *	50-200	PF-01

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: RPT-1A

Sampled: 6/29/2022 11:10

Sample ID: 22G0012-40

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	22	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
Perfluoropentanoic acid (PFPeA)	24	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
Perfluorohexanoic acid (PFHxA)	7.8	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
Perfluorohexanesulfonic acid (PFHxS)	2.9	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.9	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
Perfluoroheptanoic acid (PFHpA)	1.9	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
Perfluorooctanesulfonic acid (PFOS)	6.6	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	7/26/22	7/28/22 20:30	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	96.4	50-200	7/28/22 20:30
M2-8:2FTS	130	50-200	7/28/22 20:30
MPFBA	89.3	50-200	7/28/22 20:30
M3HFPO-DA	60.7	50-200	7/28/22 20:30
M6PFDA	89.7	50-200	7/28/22 20:30
M3PFBS	102	50-200	7/28/22 20:30
M7PFUnA	82.7	50-200	7/28/22 20:30
M2-6:2FTS	147	50-200	7/28/22 20:30
M5PFPeA	98.9	50-200	7/28/22 20:30
M5PFHxA	86.9	50-200	7/28/22 20:30
M3PFHxS	97.3	50-200	7/28/22 20:30
M4PFHpA	86.3	50-200	7/28/22 20:30
M8PFOA	87.5	50-200	7/28/22 20:30
M8PFOS	88.7	50-200	7/28/22 20:30
M9PFNA	87.0	50-200	7/28/22 20:30
MPFDoA	67.5	50-200	7/28/22 20:30

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G0012

Date Received: 7/1/2022

Field Sample #: RPT-1A

Sampled: 6/29/2022 11:15

Sample ID: 22G0012-41

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	23	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
Perfluoropentanoic acid (PFPeA)	25	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
Perfluorohexanoic acid (PFHxA)	8.0	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
Perfluorohexanesulfonic acid (PFHxS)	2.9	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.1	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
Perfluoroheptanoic acid (PFHpA)	1.8	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
Perfluorooctanesulfonic acid (PFOS)	8.2	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	7/21/22	7/26/22 12:03	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	80.5	50-200	7/26/22 12:03
M2-8:2FTS	127	50-200	7/26/22 12:03
MPFBA	96.8	50-200	7/26/22 12:03
M3HFPO-DA	111	50-200	7/26/22 12:03
M6PFDA	80.9	50-200	7/26/22 12:03
M3PFBS	85.9	50-200	7/26/22 12:03
M7PFUnA	65.5	50-200	7/26/22 12:03
M2-6:2FTS	138	50-200	7/26/22 12:03
M5PFPeA	104	50-200	7/26/22 12:03
M5PFHxA	86.7	50-200	7/26/22 12:03
M3PFHxS	92.8	50-200	7/26/22 12:03
M4PFHpA	88.9	50-200	7/26/22 12:03
M8PFOA	92.8	50-200	7/26/22 12:03
M8PFOS	92.9	50-200	7/26/22 12:03
M9PFNA	88.0	50-200	7/26/22 12:03
MPFDoA	80.4	50-200	7/26/22 12:03

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B312650 - EPA 533
Blank (B312650-BLK1)

Prepared: 07/26/22 Analyzed: 07/29/22

Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L							Z-01
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L							
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L							
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L							
4,8-dioxo-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L							

Surrogate: M2-4:2FTS	26.9			ng/L	32.9		81.7	50-200			
Surrogate: M2-8:2FTS	37.2			ng/L	33.7		110	50-200			
Surrogate: MPFBA	34.3			ng/L	35.1		97.6	50-200			
Surrogate: M3HFPO-DA	29.6			ng/L	35.1		84.4	50-200			
Surrogate: M6PFDA	35.5			ng/L	35.1		101	50-200			
Surrogate: M3PFBS	28.8			ng/L	32.7		88.1	50-200			
Surrogate: M7PFUnA	32.8			ng/L	35.1		93.4	50-200			
Surrogate: M2-6:2FTS	29.9			ng/L	33.4		89.6	50-200			
Surrogate: M5PFPeA	33.6			ng/L	35.1		95.8	50-200			
Surrogate: M5PFHxA	32.4			ng/L	35.1		92.2	50-200			
Surrogate: M3PFHxS	30.2			ng/L	33.3		90.7	50-200			
Surrogate: M4PFHpA	32.9			ng/L	35.1		93.8	50-200			
Surrogate: M8PFOA	35.1			ng/L	35.1		99.9	50-200			
Surrogate: M8PFOS	30.1			ng/L	33.7		89.3	50-200			
Surrogate: M9PFNA	35.2			ng/L	35.1		100	50-200			
Surrogate: MPFDoA	31.6			ng/L	35.1		90.0	50-200			

LCS (B312650-BS1)

Prepared: 07/26/22 Analyzed: 07/29/22

Perfluorobutanoic acid (PFBA)	1.68	1.8		ng/L	1.80		93.7	50-150			
Perfluorobutanesulfonic acid (PFBS)	4.79	1.8		ng/L	1.59		302 *	50-150			L-06
Perfluoropentanoic acid (PFPeA)	1.63	1.8		ng/L	1.80		91.0	50-150			
Perfluorohexanoic acid (PFHxA)	1.54	1.8		ng/L	1.80		85.6	50-150			
11Cl-PF3OUdS (F53B Major)	1.18	1.8		ng/L	1.69		69.5	50-150			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B312650 - EPA 533
LCS (B312650-BS1)

Prepared: 07/26/22 Analyzed: 07/29/22

9Cl-PF3ONS (F53B Minor)	1.21	1.8		ng/L	1.67		72.4	50-150			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.50	1.8		ng/L	1.69		88.4	50-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.54	1.8		ng/L	1.80		85.7	50-150			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.32	1.8		ng/L	1.72		76.7	50-150			
Perfluorodecanoic acid (PFDA)	1.57	1.8		ng/L	1.80		87.2	50-150			
Perfluorododecanoic acid (PFDoA)	1.60	1.8		ng/L	1.80		89.3	50-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	1.32	1.8		ng/L	1.60		82.7	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	2.06	1.8		ng/L	1.71		120	50-150			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.37	1.8		ng/L	1.68		81.7	50-150			
Perfluorohexanesulfonic acid (PFHxS)	1.17	1.8		ng/L	1.64		71.1	50-150			
Perfluoro-4-oxapentanoic acid (PFMPA)	1.34	1.8		ng/L	1.80		74.4	50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.46	1.8		ng/L	1.80		81.2	50-150			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.30	1.8		ng/L	1.71		75.9	50-150			
Perfluoropentanesulfonic acid (PFPeS)	1.43	1.8		ng/L	1.69		84.9	50-150			
Perfluoroundecanoic acid (PFUnA)	1.35	1.8		ng/L	1.80		75.2	50-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.45	1.8		ng/L	1.80		80.7	50-150			
Perfluoroheptanoic acid (PFHpA)	1.61	1.8		ng/L	1.80		89.4	50-150			
Perfluorooctanoic acid (PFOA)	1.69	1.8		ng/L	1.80		94.3	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.67	1.8		ng/L	1.66		101	50-150			
Perfluorononanoic acid (PFNA)	1.48	1.8		ng/L	1.80		82.6	50-150			
Surrogate: M2-4:2FTS	28.5			ng/L	33.7		84.5	50-200			
Surrogate: M2-8:2FTS	38.9			ng/L	34.5		113	50-200			
Surrogate: MPFBA	34.8			ng/L	35.9		97.0	50-200			
Surrogate: M3HFPO-DA	28.9			ng/L	35.9		80.5	50-200			
Surrogate: M6PFDA	39.0			ng/L	35.9		109	50-200			
Surrogate: M3PFBS	30.1			ng/L	33.5		90.0	50-200			
Surrogate: M7PFUnA	35.9			ng/L	35.9		100	50-200			
Surrogate: M2-6:2FTS	33.7			ng/L	34.1		98.7	50-200			
Surrogate: M5PFPeA	34.3			ng/L	35.9		95.6	50-200			
Surrogate: M5PFHxA	34.8			ng/L	35.9		97.1	50-200			
Surrogate: M3PFHxS	31.2			ng/L	34.0		91.5	50-200			
Surrogate: M4PFHpA	35.4			ng/L	35.9		98.5	50-200			
Surrogate: M8PFOA	35.4			ng/L	35.9		98.7	50-200			
Surrogate: M8PFOS	30.6			ng/L	34.4		89.0	50-200			
Surrogate: M9PFNA	35.4			ng/L	35.9		98.7	50-200			
Surrogate: MPFDoA	32.9			ng/L	35.9		91.7	50-200			

LCS Dup (B312650-BSD1)

Prepared: 07/26/22 Analyzed: 07/29/22

Perfluorobutanoic acid (PFBA)	1.87	1.7		ng/L	1.75		107	50-150	10.8	50	
Perfluorobutanesulfonic acid (PFBS)	3.96	1.7		ng/L	1.55		256 *	50-150	19.0	50	L-06
Perfluoropentanoic acid (PFPeA)	1.83	1.7		ng/L	1.75		105	50-150	11.5	50	
Perfluorohexanoic acid (PFHxA)	1.85	1.7		ng/L	1.75		106	50-150	18.7	50	
11Cl-PF3OUdS (F53B Major)	1.40	1.7		ng/L	1.65		84.8	50-150	17.2	50	
9Cl-PF3ONS (F53B Minor)	1.39	1.7		ng/L	1.63		85.4	50-150	13.8	50	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.72	1.7		ng/L	1.65		104	50-150	13.9	50	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.49	1.7		ng/L	1.75		85.0	50-150	3.42	50	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.56	1.7		ng/L	1.68		92.9	50-150	16.5	50	

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B312650 - EPA 533
LCS Dup (B312650-BSD1)

Prepared: 07/26/22 Analyzed: 07/29/22

Perfluorodecanoic acid (PFDA)	1.59	1.7		ng/L	1.75		91.1	50-150	1.81	50	
Perfluorododecanoic acid (PFDoA)	1.85	1.7		ng/L	1.75		106	50-150	14.3	50	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	1.51	1.7		ng/L	1.56		96.8	50-150	13.1	50	
Perfluoroheptanesulfonic acid (PFHpS)	1.81	1.7		ng/L	1.67		108	50-150	13.1	50	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.62	1.7		ng/L	1.64		99.1	50-150	16.7	50	
Perfluorohexanesulfonic acid (PFHxS)	1.60	1.7		ng/L	1.60		99.7	50-150	30.9	50	
Perfluoro-4-oxapentanoic acid (PFMPA)	1.54	1.7		ng/L	1.75		87.9	50-150	14.1	50	
Perfluoro-5-oxahexanoic acid (PFMBA)	1.68	1.7		ng/L	1.75		95.8	50-150	14.0	50	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.48	1.7		ng/L	1.66		89.0	50-150	13.3	50	
Perfluoropentanesulfonic acid (PFPeS)	1.69	1.7		ng/L	1.64		103	50-150	16.5	50	
Perfluoroundecanoic acid (PFUnA)	1.63	1.7		ng/L	1.75		93.2	50-150	18.9	50	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.72	1.7		ng/L	1.75		98.4	50-150	17.2	50	
Perfluoroheptanoic acid (PFHpA)	1.96	1.7		ng/L	1.75		112	50-150	20.0	50	
Perfluorooctanoic acid (PFOA)	1.93	1.7		ng/L	1.75		111	50-150	13.3	50	
Perfluorooctanesulfonic acid (PFOS)	1.55	1.7		ng/L	1.62		95.9	50-150	7.60	50	
Perfluorononanoic acid (PFNA)	1.67	1.7		ng/L	1.75		95.7	50-150	12.1	50	
Surrogate: M2-4:2FTS	27.4			ng/L	32.8		83.5	50-200			
Surrogate: M2-8:2FTS	40.8			ng/L	33.6		121	50-200			
Surrogate: MPFBA	33.2			ng/L	35.0		94.9	50-200			
Surrogate: M3HFPO-DA	29.4			ng/L	35.0		84.2	50-200			
Surrogate: M6PFDA	32.2			ng/L	35.0		92.0	50-200			
Surrogate: M3PFBS	29.6			ng/L	32.6		90.6	50-200			
Surrogate: M7PFUnA	32.4			ng/L	35.0		92.6	50-200			
Surrogate: M2-6:2FTS	32.3			ng/L	33.3		97.1	50-200			
Surrogate: M5PFPeA	32.6			ng/L	35.0		93.2	50-200			
Surrogate: M5PFHxA	30.6			ng/L	35.0		87.4	50-200			
Surrogate: M3PFHxS	30.3			ng/L	33.2		91.2	50-200			
Surrogate: M4PFHpA	31.3			ng/L	35.0		89.5	50-200			
Surrogate: M8PFOA	32.4			ng/L	35.0		92.5	50-200			
Surrogate: M8PFOS	30.6			ng/L	33.6		91.1	50-200			
Surrogate: M9PFNA	31.8			ng/L	35.0		90.8	50-200			
Surrogate: MPFDoA	31.0			ng/L	35.0		88.5	50-200			

Batch B312651 - EPA 533
Blank (B312651-BLK1)

Prepared: 07/26/22 Analyzed: 07/28/22

Perfluorobutanoic acid (PFBA)	ND	1.7		ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.7		ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.7		ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.7		ng/L							
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L							
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L							
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L							

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B312651 - EPA 533
Blank (B312651-BLK1)

Prepared: 07/26/22 Analyzed: 07/28/22

Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.7		ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.7		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.7		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.7		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L							
Surrogate: M2-4:2FTS	26.4			ng/L	32.5		81.4	50-200			
Surrogate: M2-8:2FTS	37.9			ng/L	33.2		114	50-200			
Surrogate: MPFBA	30.3			ng/L	34.6		87.7	50-200			
Surrogate: M3HFPO-DA	26.3			ng/L	34.6		75.9	50-200			
Surrogate: M6PFDA	29.5			ng/L	34.6		85.2	50-200			
Surrogate: M3PFBS	27.7			ng/L	32.2		85.9	50-200			
Surrogate: M7PFUnA	27.6			ng/L	34.6		79.7	50-200			
Surrogate: M2-6:2FTS	30.5			ng/L	32.9		92.6	50-200			
Surrogate: M5PFPeA	30.3			ng/L	34.6		87.6	50-200			
Surrogate: M5PFHxA	29.1			ng/L	34.6		84.1	50-200			
Surrogate: M3PFHxS	27.5			ng/L	32.8		83.8	50-200			
Surrogate: M4PFHpA	29.2			ng/L	34.6		84.4	50-200			
Surrogate: M8PFOA	28.6			ng/L	34.6		82.8	50-200			
Surrogate: M8PFOS	29.4			ng/L	33.2		88.7	50-200			
Surrogate: M9PFNA	29.8			ng/L	34.6		86.2	50-200			
Surrogate: MPFDoA	30.1			ng/L	34.6		87.0	50-200			

LCS (B312651-BS1)

Prepared: 07/26/22 Analyzed: 07/28/22

Perfluorobutanoic acid (PFBA)	8.56	1.8		ng/L	8.88		96.3	70-130			
Perfluorobutanesulfonic acid (PFBS)	7.52	1.8		ng/L	7.86		95.6	70-130			
Perfluoropentanoic acid (PFPeA)	8.30	1.8		ng/L	8.88		93.5	70-130			
Perfluorohexanoic acid (PFHxA)	8.22	1.8		ng/L	8.88		92.6	70-130			
11Cl-PF3OUdS (F53B Major)	8.12	1.8		ng/L	8.37		97.0	70-130			
9Cl-PF3ONS (F53B Minor)	6.71	1.8		ng/L	8.28		81.0	70-130			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	7.25	1.8		ng/L	8.37		86.6	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	10.2	1.8		ng/L	8.88		115	70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	9.41	1.8		ng/L	8.53		110	70-130			
Perfluorodecanoic acid (PFDA)	8.87	1.8		ng/L	8.88		99.8	70-130			
Perfluorododecanoic acid (PFDoA)	8.51	1.8		ng/L	8.88		95.8	70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	7.17	1.8		ng/L	7.91		90.7	70-130			
Perfluoroheptanesulfonic acid (PFHpS)	7.42	1.8		ng/L	8.48		87.4	70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	7.65	1.8		ng/L	8.31		92.2	70-130			
Perfluorohexanesulfonic acid (PFHxS)	7.65	1.8		ng/L	8.13		94.1	70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	7.52	1.8		ng/L	8.88		84.6	70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	8.06	1.8		ng/L	8.88		90.8	70-130			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B312651 - EPA 533
LCS (B312651-BS1)

Prepared: 07/26/22 Analyzed: 07/28/22

6:2 Fluorotelomersulfonic acid (6:2FTS A)	6.43	1.8		ng/L	8.44		76.2	70-130			
Perfluoropentanesulfonic acid (PFPeS)	7.76	1.8		ng/L	8.35		92.9	70-130			
Perfluoroundecanoic acid (PFUnA)	9.18	1.8		ng/L	8.88		103	70-130			
Nonfluoro-3,6-dioxahexanoic acid (NFDHA)	8.02	1.8		ng/L	8.88		90.3	70-130			
Perfluoroheptanoic acid (PFHpA)	8.78	1.8		ng/L	8.88		98.8	70-130			
Perfluorooctanoic acid (PFOA)	8.98	1.8		ng/L	8.88		101	70-130			
Perfluorooctanesulfonic acid (PFOS)	6.82	1.8		ng/L	8.22		82.9	70-130			
Perfluorononanoic acid (PFNA)	8.07	1.8		ng/L	8.88		90.9	70-130			
Surrogate: M2-4:2FTS	30.3			ng/L	33.3		90.8	50-200			
Surrogate: M2-8:2FTS	35.1			ng/L	34.1		103	50-200			
Surrogate: MPFBA	34.6			ng/L	35.5		97.3	50-200			
Surrogate: M3HFPO-DA	26.3			ng/L	35.5		74.0	50-200			
Surrogate: M6PFDA	31.1			ng/L	35.5		87.5	50-200			
Surrogate: M3PFBS	31.1			ng/L	33.1		93.9	50-200			
Surrogate: M7PFUnA	30.7			ng/L	35.5		86.5	50-200			
Surrogate: M2-6:2FTS	36.3			ng/L	33.8		107	50-200			
Surrogate: M5PFPeA	34.2			ng/L	35.5		96.2	50-200			
Surrogate: M5PFHxA	32.2			ng/L	35.5		90.7	50-200			
Surrogate: M3PFHxS	31.6			ng/L	33.7		93.7	50-200			
Surrogate: M4PFHpA	31.6			ng/L	35.5		88.9	50-200			
Surrogate: M8PFOA	31.6			ng/L	35.5		88.9	50-200			
Surrogate: M8PFOS	31.2			ng/L	34.1		91.6	50-200			
Surrogate: M9PFNA	33.2			ng/L	35.5		93.4	50-200			
Surrogate: MPFDoA	32.4			ng/L	35.5		91.1	50-200			

LCS Dup (B312651-BSD1)

Prepared: 07/26/22 Analyzed: 07/28/22

Perfluorobutanoic acid (PFBA)	9.54	1.8		ng/L	8.85		108	70-130	10.9	30	
Perfluorobutanesulfonic acid (PFBS)	8.24	1.8		ng/L	7.84		105	70-130	9.20	30	
Perfluoropentanoic acid (PFPeA)	9.11	1.8		ng/L	8.85		103	70-130	9.25	30	
Perfluorohexanoic acid (PFHxA)	9.15	1.8		ng/L	8.85		103	70-130	10.6	30	
11Cl-PF3OUdS (F53B Major)	7.85	1.8		ng/L	8.34		94.1	70-130	3.38	30	
9Cl-PF3ONS (F53B Minor)	7.66	1.8		ng/L	8.25		92.8	70-130	13.2	30	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	8.33	1.8		ng/L	8.34		99.9	70-130	13.9	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	10.9	1.8		ng/L	8.85		123	70-130	6.46	30	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	8.79	1.8		ng/L	8.50		103	70-130	6.85	30	
Perfluorodecanoic acid (PFDA)	9.51	1.8		ng/L	8.85		107	70-130	6.97	30	
Perfluorododecanoic acid (PFDoA)	9.38	1.8		ng/L	8.85		106	70-130	9.72	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	7.84	1.8		ng/L	7.88		99.5	70-130	8.85	30	
Perfluoroheptanesulfonic acid (PFHpS)	9.10	1.8		ng/L	8.46		108	70-130	20.4	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	8.47	1.8		ng/L	8.28		102	70-130	10.2	30	
Perfluorohexanesulfonic acid (PFHxS)	8.13	1.8		ng/L	8.10		100	70-130	6.03	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	8.29	1.8		ng/L	8.85		93.6	70-130	9.81	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	8.71	1.8		ng/L	8.85		98.4	70-130	7.73	30	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	7.58	1.8		ng/L	8.41		90.1	70-130	16.4	30	
Perfluoropentanesulfonic acid (PFPeS)	8.13	1.8		ng/L	8.32		97.7	70-130	4.69	30	
Perfluoroundecanoic acid (PFUnA)	9.17	1.8		ng/L	8.85		104	70-130	0.192	30	
Nonfluoro-3,6-dioxahexanoic acid (NFDHA)	8.76	1.8		ng/L	8.85		99.0	70-130	8.82	30	
Perfluoroheptanoic acid (PFHpA)	9.47	1.8		ng/L	8.85		107	70-130	7.60	30	

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B312651 - EPA 533
LCS Dup (B312651-BSI1)

Prepared: 07/26/22 Analyzed: 07/28/22

Perfluorooctanoic acid (PFOA)	9.90	1.8		ng/L	8.85		112	70-130	9.81	30	
Perfluorooctanesulfonic acid (PFOS)	7.36	1.8		ng/L	8.19		89.8	70-130	7.62	30	
Perfluorononanoic acid (PFNA)	9.33	1.8		ng/L	8.85		105	70-130	14.5	30	
Surrogate: M2-4:2FTS	26.1			ng/L	33.2		78.6	50-200			
Surrogate: M2-8:2FTS	36.5			ng/L	34.0		107	50-200			
Surrogate: MPFBA	32.5			ng/L	35.4		91.8	50-200			
Surrogate: M3HFPO-DA	28.9			ng/L	35.4		81.6	50-200			
Surrogate: M6PFDA	31.1			ng/L	35.4		87.7	50-200			
Surrogate: M3PFBS	28.4			ng/L	33.0		86.2	50-200			
Surrogate: M7PFUnA	32.4			ng/L	35.4		91.4	50-200			
Surrogate: M2-6:2FTS	30.3			ng/L	33.7		89.9	50-200			
Surrogate: M5PFPeA	32.3			ng/L	35.4		91.2	50-200			
Surrogate: M5PFHxA	32.3			ng/L	35.4		91.2	50-200			
Surrogate: M3PFHxS	29.0			ng/L	33.6		86.4	50-200			
Surrogate: M4PFHpA	31.6			ng/L	35.4		89.3	50-200			
Surrogate: M8PFOA	32.6			ng/L	35.4		91.9	50-200			
Surrogate: M8PFOS	30.2			ng/L	34.0		88.9	50-200			
Surrogate: M9PFNA	32.8			ng/L	35.4		92.5	50-200			
Surrogate: MPFDoA	31.5			ng/L	35.4		89.1	50-200			

Batch B312870 - EPA 533
Blank (B312870-BLK1)

Prepared: 07/21/22 Analyzed: 07/26/22

Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L							
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L							
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L							
4,8-dioxo-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	ND	1.8		ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L							
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	ND	1.8		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L							

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B312870 - EPA 533
Blank (B312870-BLK1)

Prepared: 07/21/22 Analyzed: 07/26/22

Surrogate: M2-4:2FTS	23.1			ng/L	33.9		68.0	50-200			
Surrogate: M2-8:2FTS	34.2			ng/L	34.7		98.6	50-200			
Surrogate: MPFBA	30.6			ng/L	36.2		84.6	50-200			
Surrogate: M3HFPO-DA	44.6			ng/L	36.2		123	50-200			
Surrogate: M6PFDA	32.2			ng/L	36.2		89.1	50-200			
Surrogate: M3PFBS	26.8			ng/L	33.7		79.6	50-200			
Surrogate: M7PFUnA	31.3			ng/L	36.2		86.7	50-200			
Surrogate: M2-6:2FTS	29.9			ng/L	34.4		86.9	50-200			
Surrogate: M5PFPeA	29.9			ng/L	36.2		82.7	50-200			
Surrogate: M5PFHxA	28.4			ng/L	36.2		78.5	50-200			
Surrogate: M3PFHxS	29.1			ng/L	34.3		84.9	50-200			
Surrogate: M4PFHpA	29.5			ng/L	36.2		81.6	50-200			
Surrogate: M8PFOA	32.0			ng/L	36.2		88.4	50-200			
Surrogate: M8PFOS	31.2			ng/L	34.7		90.0	50-200			
Surrogate: M9PFNA	33.6			ng/L	36.2		93.0	50-200			
Surrogate: MPFDoA	31.7			ng/L	36.2		87.7	50-200			

LCS (B312870-BS1)

Prepared: 07/21/22 Analyzed: 07/26/22

Perfluorobutanoic acid (PFBA)	9.51	1.8		ng/L	8.99		106	70-130			
Perfluorobutanesulfonic acid (PFBS)	8.20	1.8		ng/L	7.95		103	70-130			
Perfluoropentanoic acid (PFPeA)	9.19	1.8		ng/L	8.99		102	70-130			
Perfluorohexanoic acid (PFHxA)	9.26	1.8		ng/L	8.99		103	70-130			
11Cl-PF3OUdS (F53B Major)	8.96	1.8		ng/L	8.47		106	70-130			
9Cl-PF3ONS (F53B Minor)	7.86	1.8		ng/L	8.38		93.8	70-130			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	8.35	1.8		ng/L	8.47		98.7	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	6.00	1.8		ng/L	8.99		66.8	* 70-130			L-04
8:2 Fluorotelomersulfonic acid (8:2FTS A)	9.78	1.8		ng/L	8.63		113	70-130			
Perfluorodecanoic acid (PFDA)	9.30	1.8		ng/L	8.99		103	70-130			
Perfluorododecanoic acid (PFDoA)	8.16	1.8		ng/L	8.99		90.8	70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	7.80	1.8		ng/L	8.00		97.5	70-130			
Perfluoroheptanesulfonic acid (PFHpS)	9.35	1.8		ng/L	8.58		109	70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	8.80	1.8		ng/L	8.40		105	70-130			
Perfluorohexanesulfonic acid (PFHxS)	8.16	1.8		ng/L	8.22		99.2	70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	7.83	1.8		ng/L	8.99		87.2	70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	8.66	1.8		ng/L	8.99		96.4	70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	8.10	1.8		ng/L	8.54		94.8	70-130			
Perfluoropentanesulfonic acid (PFPeS)	8.31	1.8		ng/L	8.45		98.4	70-130			
Perfluoroundecanoic acid (PFUnA)	8.49	1.8		ng/L	8.99		94.5	70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.78	1.8		ng/L	8.99		97.7	70-130			
Perfluoroheptanoic acid (PFHpA)	9.32	1.8		ng/L	8.99		104	70-130			
Perfluorooctanoic acid (PFOA)	9.40	1.8		ng/L	8.99		105	70-130			
Perfluorooctanesulfonic acid (PFOS)	8.37	1.8		ng/L	8.31		101	70-130			
Perfluorononanoic acid (PFNA)	9.61	1.8		ng/L	8.99		107	70-130			
Surrogate: M2-4:2FTS	25.8			ng/L	33.7		76.6	50-200			
Surrogate: M2-8:2FTS	36.1			ng/L	34.5		105	50-200			
Surrogate: MPFBA	29.5			ng/L	35.9		82.1	50-200			
Surrogate: M3HFPO-DA	39.0			ng/L	35.9		109	50-200			
Surrogate: M6PFDA	29.0			ng/L	35.9		80.8	50-200			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B312870 - EPA 533
LCS (B312870-BS1)

Prepared: 07/21/22 Analyzed: 07/26/22

Surrogate: M3PFBS	27.2			ng/L	33.5		81.2	50-200			
Surrogate: M7PFUnA	30.2			ng/L	35.9		84.1	50-200			
Surrogate: M2-6:2FTS	29.4			ng/L	34.2		86.0	50-200			
Surrogate: M5PFPeA	29.2			ng/L	35.9		81.3	50-200			
Surrogate: M5PFHxA	27.5			ng/L	35.9		76.6	50-200			
Surrogate: M3PFHxS	28.8			ng/L	34.1		84.4	50-200			
Surrogate: M4PFHpA	28.4			ng/L	35.9		78.9	50-200			
Surrogate: M8PFOA	30.6			ng/L	35.9		85.2	50-200			
Surrogate: M8PFOS	30.2			ng/L	34.5		87.7	50-200			
Surrogate: M9PFNA	31.3			ng/L	35.9		87.1	50-200			
Surrogate: MPFDoA	31.2			ng/L	35.9		86.8	50-200			

LCS Dup (B312870-BSD1)

Prepared: 07/21/22 Analyzed: 07/26/22

Perfluorobutanoic acid (PFBA)	9.12	1.9		ng/L	9.31		97.9	70-130	4.23	30	
Perfluorobutanesulfonic acid (PFBS)	7.99	1.9		ng/L	8.24		96.9	70-130	2.66	30	
Perfluoropentanoic acid (PFPeA)	9.19	1.9		ng/L	9.31		98.7	70-130	0.0216	30	
Perfluorohexanoic acid (PFHxA)	9.19	1.9		ng/L	9.31		98.7	70-130	0.789	30	
11Cl-PF3OUdS (F53B Major)	8.60	1.9		ng/L	8.77		98.1	70-130	4.05	30	
9Cl-PF3ONS (F53B Minor)	7.34	1.9		ng/L	8.68		84.6	70-130	6.72	30	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	8.56	1.9		ng/L	8.77		97.6	70-130	2.45	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	5.80	1.9		ng/L	9.31		62.3	* 70-130	3.45	30	L-04
8:2 Fluorotelomersulfonic acid (8:2FTS A)	10.4	1.9		ng/L	8.94		116	70-130	5.95	30	
Perfluorodecanoic acid (PFDA)	9.36	1.9		ng/L	9.31		101	70-130	0.646	30	
Perfluorododecanoic acid (PFDoA)	8.82	1.9		ng/L	9.31		94.7	70-130	7.81	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	7.58	1.9		ng/L	8.29		91.5	70-130	2.82	30	
Perfluoroheptanesulfonic acid (PFHpS)	8.91	1.9		ng/L	8.89		100	70-130	4.85	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	8.27	1.9		ng/L	8.71		95.0	70-130	6.13	30	
Perfluorohexanesulfonic acid (PFHxS)	8.45	1.9		ng/L	8.52		99.2	70-130	3.49	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	8.05	1.9		ng/L	9.31		86.4	70-130	2.67	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	8.54	1.9		ng/L	9.31		91.8	70-130	1.35	30	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	8.29	1.9		ng/L	8.85		93.7	70-130	2.33	30	
Perfluoropentanesulfonic acid (PFPeS)	8.33	1.9		ng/L	8.75		95.1	70-130	0.223	30	
Perfluoroundecanoic acid (PFUnA)	8.95	1.9		ng/L	9.31		96.1	70-130	5.28	30	
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	8.92	1.9		ng/L	9.31		95.7	70-130	1.48	30	
Perfluoroheptanoic acid (PFHpA)	9.41	1.9		ng/L	9.31		101	70-130	0.984	30	
Perfluorooctanoic acid (PFOA)	9.36	1.9		ng/L	9.31		101	70-130	0.487	30	
Perfluorooctanesulfonic acid (PFOS)	7.72	1.9		ng/L	8.61		89.6	70-130	8.07	30	
Perfluorononanoic acid (PFNA)	9.73	1.9		ng/L	9.31		104	70-130	1.20	30	
Surrogate: M2-4:2FTS	27.6			ng/L	34.9		79.1	50-200			
Surrogate: M2-8:2FTS	35.7			ng/L	35.8		99.9	50-200			
Surrogate: MPFBA	34.4			ng/L	37.2		92.2	50-200			
Surrogate: M3HFPO-DA	44.1			ng/L	37.2		118	50-200			
Surrogate: M6PFDA	34.1			ng/L	37.2		91.5	50-200			
Surrogate: M3PFBS	29.8			ng/L	34.7		85.9	50-200			
Surrogate: M7PFUnA	33.8			ng/L	37.2		90.8	50-200			
Surrogate: M2-6:2FTS	33.4			ng/L	35.4		94.2	50-200			
Surrogate: M5PFPeA	33.5			ng/L	37.2		90.0	50-200			
Surrogate: M5PFHxA	31.3			ng/L	37.2		84.1	50-200			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B312870 - EPA 533
LCS Dup (B312870-BSD1)

Prepared: 07/21/22 Analyzed: 07/26/22

Surrogate: M3PFHxS	30.9			ng/L	35.3		87.4	50-200			
Surrogate: M4PFHpA	31.8			ng/L	37.2		85.4	50-200			
Surrogate: M8PFOA	35.0			ng/L	37.2		94.0	50-200			
Surrogate: M8PFOS	34.1			ng/L	35.7		95.6	50-200			
Surrogate: M9PFNA	35.4			ng/L	37.2		95.0	50-200			
Surrogate: MPFDoA	34.7			ng/L	37.2		93.0	50-200			

Batch B314147 - EPA 533
Blank (B314147-BLK1)

Prepared: 08/03/22 Analyzed: 08/06/22

Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L							
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L							
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L							
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L							
Surrogate: M2-4:2FTS	41.4			ng/L	34.5		120	50-200			
Surrogate: M2-8:2FTS	42.9			ng/L	35.3		121	50-200			
Surrogate: MPFBA	47.2			ng/L	36.8		128	50-200			
Surrogate: M3HFPO-DA	43.1			ng/L	36.8		117	50-200			
Surrogate: M6PFDA	45.3			ng/L	36.8		123	50-200			
Surrogate: M3PFBS	43.5			ng/L	34.3		127	50-200			
Surrogate: M7PFUnA	44.7			ng/L	36.8		121	50-200			
Surrogate: M2-6:2FTS	50.6			ng/L	35.0		144	50-200			
Surrogate: M5PFPeA	46.7			ng/L	36.8		127	50-200			
Surrogate: M5PFHxA	41.7			ng/L	36.8		113	50-200			
Surrogate: M3PFHxS	45.6			ng/L	34.9		131	50-200			
Surrogate: M4PFHpA	44.6			ng/L	36.8		121	50-200			
Surrogate: M8PFOA	48.8			ng/L	36.8		133	50-200			
Surrogate: M8PFOS	45.4			ng/L	35.3		129	50-200			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B314147 - EPA 533
Blank (B314147-BLK1)

Prepared: 08/03/22 Analyzed: 08/06/22

Surrogate: M9PFNA	45.3			ng/L	36.8		123	50-200			
Surrogate: MPFDoA	46.4			ng/L	36.8		126	50-200			

LCS (B314147-BS1)

Prepared: 08/03/22 Analyzed: 08/06/22

Perfluorobutanoic acid (PFBA)	9.22	1.9		ng/L	9.28		99.3	70-130			
Perfluorobutanesulfonic acid (PFBS)	8.31	1.9		ng/L	8.21		101	70-130			
Perfluoropentanoic acid (PFPeA)	9.38	1.9		ng/L	9.28		101	70-130			
Perfluorohexanoic acid (PFHxA)	9.40	1.9		ng/L	9.28		101	70-130			
11Cl-PF3OUdS (F53B Major)	8.63	1.9		ng/L	8.74		98.8	70-130			
9Cl-PF3ONS (F53B Minor)	8.13	1.9		ng/L	8.65		93.9	70-130			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	8.21	1.9		ng/L	8.74		93.9	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.97	1.9		ng/L	9.28		96.6	70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	7.96	1.9		ng/L	8.91		89.4	70-130			
Perfluorodecanoic acid (PFDA)	9.21	1.9		ng/L	9.28		99.2	70-130			
Perfluorododecanoic acid (PFDoA)	10.3	1.9		ng/L	9.28		111	70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	7.38	1.9		ng/L	8.26		89.4	70-130			
Perfluoroheptanesulfonic acid (PFHpS)	8.96	1.9		ng/L	8.86		101	70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	8.81	1.9		ng/L	8.68		101	70-130			
Perfluorohexanesulfonic acid (PFHxS)	8.37	1.9		ng/L	8.49		98.6	70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	7.61	1.9		ng/L	9.28		82.0	70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	8.24	1.9		ng/L	9.28		88.8	70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	10.0	1.9		ng/L	8.82		114	70-130			
Perfluoropentanesulfonic acid (PFPeS)	8.61	1.9		ng/L	8.72		98.6	70-130			
Perfluoroundecanoic acid (PFUnA)	10.7	1.9		ng/L	9.28		115	70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.36	1.9		ng/L	9.28		90.1	70-130			
Perfluoroheptanoic acid (PFHpA)	9.72	1.9		ng/L	9.28		105	70-130			
Perfluorooctanoic acid (PFOA)	10.2	1.9		ng/L	9.28		110	70-130			
Perfluorooctanesulfonic acid (PFOS)	8.55	1.9		ng/L	8.58		99.6	70-130			
Perfluorononanoic acid (PFNA)	9.69	1.9		ng/L	9.28		104	70-130			
Surrogate: M2-4:2FTS	38.3			ng/L	34.8		110	50-200			
Surrogate: M2-8:2FTS	45.8			ng/L	35.6		129	50-200			
Surrogate: MPFBA	40.8			ng/L	37.1		110	50-200			
Surrogate: M3HFPO-DA	33.1			ng/L	37.1		89.2	50-200			
Surrogate: M6PFDA	41.0			ng/L	37.1		110	50-200			
Surrogate: M3PFBS	39.3			ng/L	34.6		114	50-200			
Surrogate: M7PFUnA	40.0			ng/L	37.1		108	50-200			
Surrogate: M2-6:2FTS	41.3			ng/L	35.3		117	50-200			
Surrogate: M5PFPeA	40.6			ng/L	37.1		109	50-200			
Surrogate: M5PFHxA	38.3			ng/L	37.1		103	50-200			
Surrogate: M3PFHxS	39.8			ng/L	35.2		113	50-200			
Surrogate: M4PFHpA	38.9			ng/L	37.1		105	50-200			
Surrogate: M8PFOA	41.4			ng/L	37.1		111	50-200			
Surrogate: M8PFOS	43.4			ng/L	35.6		122	50-200			
Surrogate: M9PFNA	41.2			ng/L	37.1		111	50-200			
Surrogate: MPFDoA	39.2			ng/L	37.1		106	50-200			

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
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.
H-04	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-06	Laboratory fortified blank/laboratory control sample recovery and/or duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the high side.
PF-01	Surrogate recovery is outside of control limits. Sample not re-extracted past holding time per method.
PF-20	Sample extracted at a dilution. Elevated reporting limits due to adjusted sample volume during preparation.
Z-01	Detection > 1/3 the MRL in blank.
Z-01a	Extracted Internal Standard is outside of control limits. Sample not re-extracted past hold per method criteria.

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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 533 in Drinking Water</i>	
Perfluorobutanoic acid (PFBA)	VT-DW,ME,NJ,NH-P
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME,NJ,NH-P
Perfluoropentanoic acid (PFPeA)	VT-DW,ME,NJ,NH-P
Perfluorohexanoic acid (PFHxA)	VT-DW,ME,NJ,NH-P
11Cl-PF3OUdS (F53B Major)	VT-DW,ME,NJ,NH-P
9Cl-PF3ONS (F53B Minor)	VT-DW,ME,NJ,NH-P
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	VT-DW,ME,NJ,NH-P
Hexafluoropropylene oxide dimer acid (HFPO-DA)	VT-DW,ME,NJ,NH-P
8:2 Fluorotelomersulfonic acid (8:2FTS A)	VT-DW,ME,NJ,NH-P
Perfluorodecanoic acid (PFDA)	VT-DW,ME,NJ,NH-P
Perfluorododecanoic acid (PFDoA)	VT-DW,ME,NJ,NH-P
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	VT-DW,ME,NJ,NH-P
Perfluoroheptanesulfonic acid (PFHpS)	VT-DW,ME,NJ,NH-P
4:2 Fluorotelomersulfonic acid (4:2FTS A)	VT-DW,ME,NJ,NH-P
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME,NJ,NH-P
Perfluoro-4-oxapentanoic acid (PFMPA)	VT-DW,ME,NJ,NH-P
Perfluoro-5-oxahexanoic acid (PFMBA)	VT-DW,ME,NJ,NH-P
6:2 Fluorotelomersulfonic acid (6:2FTS A)	VT-DW,ME,NJ,NH-P
Perfluoropentanesulfonic acid (PFPeS)	VT-DW,ME,NJ,NH-P
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME,NJ,NH-P
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	VT-DW,ME,NJ,NH-P
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME,NJ,NH-P
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,NJ
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,NJ
Perfluorononanoic acid (PFNA)	VT-DW,ME,NJ,NH-P

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO 17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2023
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
NC-DW	North Carolina Department of Health and Human Services	25703	07/31/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022



ARCADIS

CHAIN OF CUSTODY & LABORATORY
ANALYSIS REQUEST FORM

ID#:

Lab Work Order #

Page 1 of 3

Table of Contents

Contact & Company Name:		Telephone:	Preservative	PARAMETER ANALYSIS & METHOD		Matrix	
Address:		Fax:	Filtered (✓)	# of Containers	Container Information	Type (✓)	Comp
City		State	Zip	Email Address:		Date	Time
Project Name/Location (City, State):		Project #	Sample's Signature:		Collection		
Sample's Printed Name:		Sample's Signature:	Sample ID		Date	Time	Matrix
1	WL-3A-B	6/24/22	815	X	W	X	W
2	WL-3A-T	820					
3	WL-4A-M	840					
4	WL-2A-M	905					
5	WL-1A-B	945					
6	WL-1A-T	950					
7	WL-6A-B	1010					
8	WL-6A-M	1015					
9	WL-6A-T	1020					
10	WL-5A-B	1035					
11	WL-5A-M	1040					
12	WL-5A-T	1045					
13	ML-1A-M	1135					
14	ML-4A (6")	1305					

Special Instructions/Comments:

Special QA/QC Instructions(✓):

Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By	
Lab Name:	Cooler Custody Seal (✓)	Printed Name:	Signature:	Printed Name:	Signature:	Printed Name:	Signature:	Printed Name:	Signature:
Con Test (Page)	☒ Intact ☐ Not Intact	Nick Firman	[Signature]	Raisa Buta (H)	[Signature]				
Specify Turnaround Requirements:	Sample Receipt:	Firm:	Firm/Courier:	Firm:	Firm/Courier:				
Shipping Tracking #	Condition/Cooler Temp	Date/Time:	Date/Time:	Date/Time:	Date/Time:				

WHITE - Laboratory returns with results

YELLOW - Lab copy

PINK - Retained by Arcadis

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

ID#:

Lab Work Order #

Page 2 of 3

Contact & Company Name: Arcadis		Telephone:	Preservative:		Filtered (✓)		F	
Address:		Fax:	# of Containers:		2		No	
City:		State:	Container Information:		3			
Project Name/Location (City, State):		Project #:	PARAMETER ANALYSIS & METHOD					
Sampler's Printed Name:		Sampler's Signature:						
Sample ID	Collection Date	Time	Type (✓)	Comp	Grab	Matrix		
15 MC-4A (SW)	6/25/22	1310	X			W	X	
16 MC-3A (6")		1330						
17 MC-3A (SW)		1335						
18 ML-2A (6")		1400						
19 ML-2A (3W)		1405						
20 ML-3A (6")		1420						
21 ML-3A (SW)		1425						
22 MC-2A (6")		1545						
23 MC-2A (SW)		1550						
24 MC-1A (6")		1520						
25 MC-1A (SW)		1525						
26 SS-6A (6")		1505						
27 SS-6A (SW)		1510						
28 SS-5A (6")		1615						
Special Instructions/Comments:								
☐ Special QA/QC Instructions (✓):								
Laboratory Information and Receipt Lab Name: Con Test (Pae) Cooler Custody Seal (✓) ☐ Intact ☐ Not Intact Sample Receipt: Condition/Cooler Temp:			Relinquished By Printed Name: Nick Firman Signature: <i>[Signature]</i> Firm: Arcadis Date/Time: 6/30/22 1300			Received By Printed Name: David Beatty Signature: <i>[Signature]</i> Firm: 2010 Date/Time: 7/1		
Relinquished By Printed Name: Signature: Firm: Date/Time:			Received By Printed Name: Signature: Firm: Date/Time:			Laboratory Received By Printed Name: Signature: Firm: Date/Time:		

REMARKS

See page 1

PARAMETER ANALYSIS & METHOD

EPA Method 533



Infrastructure Water Environment Buildings

ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 3 of 3

Lab Work Order #

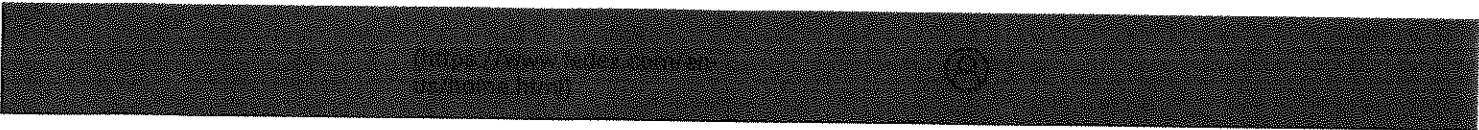
Contact & Company Name:		Telephone:	Preservative	F	Container Information Key:
Arcadis			Filtered (✓)	No	1. 40 ml Vial
Address:		Fax:	# of Containers	2/pt	2. 1 L Amber
City:		State:	Container Information	3	3. 250 ml Plastic
Zip:		E-mail:			4. 500 ml Plastic
Project Name/Location (City, State):		Project #:			5. Eucora
Sampler's Printed Name:		Sampler's Signature:			6. 2 oz. Glass
					7. 4 oz. Glass
					8. 8 oz. Glass
					9. Other
					10. Other

PARAMETER ANALYSIS & METHOD			
Sample ID	Collection Date	Type (✓)	Matrix
29 SS-5A (SW)	6/29/22 1620	X	W
30 SS-3A	6/29/22 900		
31 SS-3A	905		
32 SS-2A	930		
33 SS-2A	935		
34 SS-1A	945		
35 SS-1A	950		
36 RP-1A	1040		
37 RP-1A	1045		
38 RP-2A	1055		
39 RP-2A	1100		
40 RPT-1A	1110		
41 RPT-1A	1115		

Laboratory Information and Receipt		Received By		Relinquished By		Laboratory Received By	
Lab Name:	Can Test (pacc)	Printed Name:	Nice Firm	Printed Name:		Printed Name:	
Cooler Custody Seal (✓)	☐ Intact ☐ Not Intact	Signature:	[Signature]	Signature:		Signature:	
Sample Receipt:		Firm/Courier:	20/20	Firm/Courier:		Firm:	
Condition/Cooler Temp:		Date/Time:	6/30/22 1300	Date/Time:		Date/Time:	

Special Instructions/Comments:	
☐ Special QA/QC Instructions (✓):	

Distribution:	
WHITE - Laboratory returns with results	YELLOW - Lab copy
PINK - Retained by ARCADIS	



FedEx® Tracking



DELIVERED

Friday

7/1/2022 at 9:56 am

Signed for by: R.PETRAITIS

No signature required

↓ Obtain Proof of delivery

DELIVERY STATUS

Delivered

✉ Get Status Updates

TRACKING ID

274983142291

FROM
SYRACUSE, NY US
Label Created
6/30/2022 11:41

PACKAGE RECEIVED BY FEDEX
NORTH SYRACUSE, NY
6/30/2022 15:15

IN TRANSIT
WINDSOR LOCKS, CT
7/1/2022 07:48

OUT FOR DELIVERY
WINDSOR LOCKS, CT
7/1/2022 07:56

DELIVERED
East Longmeadow, MA US
DELIVERED
7/1/2022 at 9:56 AM

↓ View travel history

Manage Delivery



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

Pace

Doc# 277 Rev 5 2017

Pace

**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 Arcadis
Received By LA Date 8/11/22 Time 9:56
How were the samples received? In Cooler T No Cooler F On Ice T No Ice F
Direct from Sampling F Ambient F Melted Ice F
Were samples within Temperature? 2-6°C T By Gun # 5 Actual Temp -2.0/4.0
By Blank # Actual Temp
Was Custody Seal Intact? MA Were Samples Tamped with? F
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 T
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? D
Is there Headspace where applicable? MA 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? MA 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	<u>82</u>	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:

August 15, 2022

David Chiusano
NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065

Project Location: NY
Client Job Number:
Project Number: Spill # 336089
Laboratory Work Order Number: 22G0869

Enclosed are results of analyses for samples as received by the laboratory on July 15, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

Table of Contents

Sample Summary	5
Case Narrative	6
Sample Results	9
22G0869-01	9
22G0869-02	10
22G0869-03	11
22G0869-04	12
22G0869-05	13
22G0869-06	14
22G0869-07	15
22G0869-08	16
22G0869-09	17
22G0869-10	18
22G0869-11	19
22G0869-12	20
22G0869-13	21
22G0869-14	22
22G0869-15	23
22G0869-16	24
22G0869-17	25
22G0869-18	26
22G0869-19	27
22G0869-20	28
22G0869-21	29
22G0869-22	30

Table of Contents (continued)

22G0869-23	32
22G0869-24	33
22G0869-25	35
22G0869-26	36
22G0869-27	37
22G0869-28	39
22G0869-29	40
22G0869-30	41
22G0869-31	42
22G0869-32	43
22G0869-33	44
22G0869-34	45
22G0869-35	47
22G0869-36	49
22G0869-37	50
22G0869-38	51
22G0869-39	52
22G0869-40	53
22G0869-41	54
QC Data	55
Semivolatile Organic Compounds by - LC/MS-MS	55
B313072	55
B313855	57
B313856	60
B314147	62

Table of Contents (continued)

B314648	64
Flag/Qualifier Summary	67
Certifications	68
Chain of Custody/Sample Receipt	69

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

 NYDEC_Arcadis US, Inc. - Clifton Park-NY
 855 Route 146, Suite 210
 Clifton Park, NY 12065
 ATTN: David Chiusano

REPORT DATE: 8/15/2022

PURCHASE ORDER NUMBER: 141589

PROJECT NUMBER: Spill # 336089

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22G0869

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
ML-1A-M	22G0869-01	Drinking Water		EPA 533	
WL-3A-B	22G0869-02	Drinking Water		EPA 533	
WL-3A-T	22G0869-03	Drinking Water		EPA 533	
WL-4A-M	22G0869-04	Drinking Water		EPA 533	
WL-2A-M	22G0869-05	Drinking Water		EPA 533	
WL-1A-B	22G0869-06	Drinking Water		EPA 533	
WL-1A-T	22G0869-07	Drinking Water		EPA 533	
WL-6A-B	22G0869-08	Drinking Water		EPA 533	
WL-6A-M	22G0869-09	Drinking Water		EPA 533	
WL-6A-T	22G0869-10	Drinking Water		EPA 533	
WL-5A-B	22G0869-11	Drinking Water		EPA 533	
WL-5A-M	22G0869-12	Drinking Water		EPA 533	
WL-5A-T	22G0869-13	Drinking Water		EPA 533	
ML-2A(6")	22G0869-14	Drinking Water		EPA 533	
ML-2A-(SW)	22G0869-15	Drinking Water		EPA 533	
ML-3A-(6")	22G0869-16	Drinking Water		EPA 533	
SS-3A(SW)	22G0869-17	Drinking Water		EPA 533	
SS-6A(6")	22G0869-18	Drinking Water		EPA 533	
SS-6A(SW)	22G0869-19	Drinking Water		EPA 533	
MC-2A(6")	22G0869-20	Drinking Water		EPA 533	
MC-2A(SW)	22G0869-21	Drinking Water		EPA 533	
MC-1A(6")	22G0869-22	Drinking Water		EPA 533	
MC-1A(SW)	22G0869-23	Drinking Water		EPA 533	
MC-3A(6")	22G0869-24	Drinking Water		EPA 533	
MC-3A(SW)	22G0869-25	Drinking Water		EPA 533	
MC-4A(6")	22G0869-26	Drinking Water		EPA 533	
MC-4A(SW)	22G0869-27	Drinking Water		EPA 533	
SS-5A(6")	22G0869-28	Drinking Water		EPA 533	
SS-5A(SW)	22G0869-29	Drinking Water		EPA 533	
SS-3A(6")	22G0869-30	Drinking Water		EPA 533	
SS-3A(SW)	22G0869-31	Drinking Water		EPA 533	
SS-2A(6")	22G0869-32	Drinking Water		EPA 533	
SS-2A(SW)	22G0869-33	Drinking Water		EPA 533	
SS-1A(6")	22G0869-34	Drinking Water		EPA 533	
SS-1A(SW)	22G0869-35	Drinking Water		EPA 533	
RP-1A(6")	22G0869-36	Drinking Water		EPA 533	
RP-1A(SW)	22G0869-37	Drinking Water		EPA 533	
RP-2A(6")	22G0869-38	Drinking Water		EPA 533	
RP-2A(SW)	22G0869-39	Drinking Water		EPA 533	
RPT-1A(6")	22G0869-40	Drinking Water		EPA 533	
RPT-1A(SW)	22G0869-41	Drinking Water		EPA 533	

CASE NARRATIVE SUMMARY

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

For PFAS 533: Due to analyst oversight during re-extraction, samples 36-39 were extracted without necessary dilution. No sample remained to extract a third time at a dilution suggested by method. Target compounds over calibration range qualified appropriately.

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

EPA 533**Qualifications:****B**

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:**6:2 Fluorotelomersulfonic acid (6:2**

22G0869-10RE1[WL-6A-T], B313856-BLK1, B313856-BS1

E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:**Perfluorohexanesulfonic acid (PFH**

22G0869-36RE1[RP-1A(6")], 22G0869-38RE1[RP-2A(6")]

Perfluorooctanesulfonic acid (PFO:

22G0869-36RE1[RP-1A(6")], 22G0869-37RE1[RP-1A(SW)], 22G0869-38RE1[RP-2A(6")], 22G0869-39RE1[RP-2A(SW)]

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:**Perfluoroheptanesulfonic acid (PF1**

B313855-BS1

PF-18

Duplicate analysis confirmed Extracted Internal Standard failure due to matrix effects.

Analyte & Samples(s) Qualified:**M2-6:2FTS**

22G0869-23[MC-1A(SW)], 22G0869-36RE1[RP-1A(6")], 22G0869-38RE1[RP-2A(6")], 22G0869-39RE1[RP-2A(SW)]

M2-8:2FTS

22G0869-36RE1[RP-1A(6")], 22G0869-38RE1[RP-2A(6")], 22G0869-39RE1[RP-2A(SW)]

MPFDoA

22G0869-21RE1[MC-2A(SW)], 22G0869-23[MC-1A(SW)], 22G0869-35[SS-1A(SW)], 22G0869-35RE1[SS-1A(SW)]

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:**M3HFPO-DA**

S074678-CCV3, S075252-CCV3

V-06

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.

Analyte & Samples(s) Qualified:**Perfluoroheptanesulfonic acid (PF1**

22G0869-28RE1[SS-5A(6")], 22G0869-29RE1[SS-5A(SW)], 22G0869-32RE1[SS-2A(6")], 22G0869-36RE1[RP-1A(6")], 22G0869-37RE1[RP-1A(SW)], 22G0869-38RE1[RP-2A(6")], 22G0869-39RE1[RP-2A(SW)], S075252-CCV2

Perfluoropetanesulfonic acid (PFPe

22G0869-11[WL-5A-B], 22G0869-12[WL-5A-M], 22G0869-13[WL-5A-T], 22G0869-18[SS-6A(6")], 22G0869-19[SS-6A(SW)], S074678-CCV3

Z-01

Extracted internal standard outside of control limits. Re-extraction yielded different non-conformances. Both results reported.

Analyte & Samples(s) Qualified:**M2-6:2FTS**

22G0869-22[MC-1A(6")], 22G0869-24[MC-3A(6")], 22G0869-27[MC-4A(SW)], 22G0869-34[SS-1A(6")], 22G0869-35[SS-1A(SW)]

M2-8:2FTS

22G0869-34[SS-1A(6")], 22G0869-35[SS-1A(SW)]

M7PFUnA

22G0869-24RE1[MC-3A(6")], 22G0869-34RE1[SS-1A(6")], 22G0869-35RE1[SS-1A(SW)]

MPFDoA

22G0869-22RE1[MC-1A(6")], 22G0869-24RE1[MC-3A(6")], 22G0869-27RE1[MC-4A(SW)], 22G0869-34RE1[SS-1A(6")]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace 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.



Lisa A. Worthington
Technical Representative

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: ML-1A-M

Sampled: 7/12/2022 08:15

Sample ID: 22G0869-01

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	3.1	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
Perfluorobutanesulfonic acid (PFBS)	4.4	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
Perfluoropentanoic acid (PFPeA)	5.9	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
Perfluorohexanoic acid (PFHxA)	4.3	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
Perfluorohexanesulfonic acid (PFHxS)	4.2	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
Perfluoroheptanoic acid (PFHpA)	3.7	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
Perfluorooctanoic acid (PFOA)	7.9	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
Perfluorooctanesulfonic acid (PFOS)	12	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:21	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	104	50-200	7/29/22 15:21
M2-8:2FTS	147	50-200	7/29/22 15:21
MPFBA	85.2	50-200	7/29/22 15:21
M3HFPO-DA	74.2	50-200	7/29/22 15:21
M6PFDA	81.9	50-200	7/29/22 15:21
M3PFBS	88.2	50-200	7/29/22 15:21
M7PFUnA	83.2	50-200	7/29/22 15:21
M2-6:2FTS	123	50-200	7/29/22 15:21
M5PFPeA	127	50-200	7/29/22 15:21
M5PFHxA	86.7	50-200	7/29/22 15:21
M3PFHxS	86.3	50-200	7/29/22 15:21
M4PFHpA	84.7	50-200	7/29/22 15:21
M8PFOA	81.9	50-200	7/29/22 15:21
M8PFOS	87.5	50-200	7/29/22 15:21
M9PFNA	83.9	50-200	7/29/22 15:21
MPFDoA	70.2	50-200	7/29/22 15:21

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: WL-3A-B

Sampled: 7/12/2022 09:05

Sample ID: 22G0869-02

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	15	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
Perfluorobutanesulfonic acid (PFBS)	4.4	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
Perfluoropentanoic acid (PFPeA)	36	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
Perfluorohexanoic acid (PFHxA)	27	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
Perfluorodecanoic acid (PFDA)	1.7	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
Perfluorohexanesulfonic acid (PFHxS)	16	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.2	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
Perfluoroheptanoic acid (PFHpA)	12	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
Perfluorooctanoic acid (PFOA)	12	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
Perfluorooctanesulfonic acid (PFOS)	40	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL
Perfluorononanoic acid (PFNA)	2.9	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:28	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	80.3	50-200	7/29/22 15:28
M2-8:2FTS	123	50-200	7/29/22 15:28
MPFBA	82.8	50-200	7/29/22 15:28
M3HFPO-DA	84.3	50-200	7/29/22 15:28
M6PFDA	83.1	50-200	7/29/22 15:28
M3PFBS	81.2	50-200	7/29/22 15:28
M7PFUnA	74.1	50-200	7/29/22 15:28
M2-6:2FTS	106	50-200	7/29/22 15:28
M5PFPeA	110	50-200	7/29/22 15:28
M5PFHxA	81.4	50-200	7/29/22 15:28
M3PFHxS	80.7	50-200	7/29/22 15:28
M4PFHpA	78.3	50-200	7/29/22 15:28
M8PFOA	79.1	50-200	7/29/22 15:28
M8PFOS	79.4	50-200	7/29/22 15:28
M9PFNA	78.7	50-200	7/29/22 15:28
MPFDoA	67.9	50-200	7/29/22 15:28

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: WL-3A-T

Sampled: 7/12/2022 09:10

Sample ID: 22G0869-03

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	15	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
Perfluorobutanesulfonic acid (PFBS)	4.3	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
Perfluoropentanoic acid (PFPeA)	34	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
Perfluorohexanoic acid (PFHxA)	25	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
Perfluorodecanoic acid (PFDA)	2.0	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
Perfluorohexanesulfonic acid (PFHxS)	15	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	25	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.2	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
Perfluoroheptanoic acid (PFHpA)	12	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
Perfluorooctanoic acid (PFOA)	11	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
Perfluorooctanesulfonic acid (PFOS)	40	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL
Perfluorononanoic acid (PFNA)	2.8	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 15:35	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	86.5	50-200	7/29/22 15:35
M2-8:2FTS	136	50-200	7/29/22 15:35
MPFBA	83.7	50-200	7/29/22 15:35
M3HFPO-DA	71.0	50-200	7/29/22 15:35
M6PFDA	72.5	50-200	7/29/22 15:35
M3PFBS	86.1	50-200	7/29/22 15:35
M7PFUnA	74.7	50-200	7/29/22 15:35
M2-6:2FTS	117	50-200	7/29/22 15:35
M5PFPeA	110	50-200	7/29/22 15:35
M5PFHxA	79.8	50-200	7/29/22 15:35
M3PFHxS	87.5	50-200	7/29/22 15:35
M4PFHpA	77.2	50-200	7/29/22 15:35
M8PFOA	77.5	50-200	7/29/22 15:35
M8PFOS	82.4	50-200	7/29/22 15:35
M9PFNA	76.9	50-200	7/29/22 15:35
MPFDoA	67.0	50-200	7/29/22 15:35

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: WL-4A-M

Sampled: 7/12/2022 09:30

Sample ID: 22G0869-04

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	14	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
Perfluorobutanesulfonic acid (PFBS)	4.3	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
Perfluoropentanoic acid (PFPeA)	33	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
Perfluorohexanoic acid (PFHxA)	25	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
Perfluorodecanoic acid (PFDA)	2.0	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
Perfluorohexanesulfonic acid (PFHxS)	15	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.8	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.3	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
Perfluoroheptanoic acid (PFHpA)	12	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
Perfluorooctanoic acid (PFOA)	12	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
Perfluorooctanesulfonic acid (PFOS)	39	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL
Perfluorononanoic acid (PFNA)	2.9	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:43	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	81.8	50-200	7/29/22 15:43
M2-8:2FTS	127	50-200	7/29/22 15:43
MPFBA	82.3	50-200	7/29/22 15:43
M3HFPO-DA	69.6	50-200	7/29/22 15:43
M6PFDA	81.1	50-200	7/29/22 15:43
M3PFBS	83.7	50-200	7/29/22 15:43
M7PFUnA	78.6	50-200	7/29/22 15:43
M2-6:2FTS	108	50-200	7/29/22 15:43
M5PFPeA	115	50-200	7/29/22 15:43
M5PFHxA	82.5	50-200	7/29/22 15:43
M3PFHxS	82.4	50-200	7/29/22 15:43
M4PFHpA	79.1	50-200	7/29/22 15:43
M8PFOA	77.7	50-200	7/29/22 15:43
M8PFOS	88.1	50-200	7/29/22 15:43
M9PFNA	80.7	50-200	7/29/22 15:43
MPFDoA	70.1	50-200	7/29/22 15:43

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: WL-2A-M

Sampled: 7/12/2022 09:45

Sample ID: 22G0869-05

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	14	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
Perfluorobutanesulfonic acid (PFBS)	4.2	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
Perfluoropentanoic acid (PFPeA)	32	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
Perfluorohexanoic acid (PFHxA)	24	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
Perfluorodecanoic acid (PFDA)	1.7	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
Perfluorohexanesulfonic acid (PFHxS)	15	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	31	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.2	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
Perfluoroheptanoic acid (PFHpA)	11	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
Perfluorooctanoic acid (PFOA)	11	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
Perfluorooctanesulfonic acid (PFOS)	36	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL
Perfluorononanoic acid (PFNA)	2.8	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:50	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	96.6	50-200	7/29/22 15:50
M2-8:2FTS	137	50-200	7/29/22 15:50
MPFBA	88.6	50-200	7/29/22 15:50
M3HFPO-DA	80.0	50-200	7/29/22 15:50
M6PFDA	88.5	50-200	7/29/22 15:50
M3PFBS	94.6	50-200	7/29/22 15:50
M7PFUnA	81.1	50-200	7/29/22 15:50
M2-6:2FTS	133	50-200	7/29/22 15:50
M5PFPeA	120	50-200	7/29/22 15:50
M5PFHxA	88.5	50-200	7/29/22 15:50
M3PFHxS	93.3	50-200	7/29/22 15:50
M4PFHpA	87.3	50-200	7/29/22 15:50
M8PFOA	89.1	50-200	7/29/22 15:50
M8PFOS	96.0	50-200	7/29/22 15:50
M9PFNA	85.4	50-200	7/29/22 15:50
MPFDoA	66.7	50-200	7/29/22 15:50

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: WL-1A-B

Sampled: 7/12/2022 10:15

Sample ID: 22G0869-06

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	13	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
Perfluorobutanesulfonic acid (PFBS)	4.0	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
Perfluoropentanoic acid (PFPeA)	31	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
Perfluorohexanoic acid (PFHxA)	23	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
4,8-dioxo-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
Perfluorohexanesulfonic acid (PFHxS)	15	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.2	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
Perfluoroheptanoic acid (PFHpA)	11	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
Perfluorooctanoic acid (PFOA)	11	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
Perfluorooctanesulfonic acid (PFOS)	38	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL
Perfluorononanoic acid (PFNA)	2.6	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 15:57	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	81.1	50-200	7/29/22 15:57
M2-8:2FTS	118	50-200	7/29/22 15:57
MPFBA	81.2	50-200	7/29/22 15:57
M3HFPO-DA	64.1	50-200	7/29/22 15:57
M6PFDA	78.0	50-200	7/29/22 15:57
M3PFBS	81.6	50-200	7/29/22 15:57
M7PFUnA	69.2	50-200	7/29/22 15:57
M2-6:2FTS	105	50-200	7/29/22 15:57
M5PFPeA	110	50-200	7/29/22 15:57
M5PFHxA	78.9	50-200	7/29/22 15:57
M3PFHxS	81.2	50-200	7/29/22 15:57
M4PFHpA	76.3	50-200	7/29/22 15:57
M8PFOA	77.0	50-200	7/29/22 15:57
M8PFOS	77.1	50-200	7/29/22 15:57
M9PFNA	76.8	50-200	7/29/22 15:57
MPFDoA	55.3	50-200	7/29/22 15:57

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: WL-1A-T

Sampled: 7/12/2022 10:20

Sample ID: 22G0869-07

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	14	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
Perfluorobutanesulfonic acid (PFBS)	4.2	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
Perfluoropentanoic acid (PFPeA)	33	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
Perfluorohexanoic acid (PFHxA)	24	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
Perfluorodecanoic acid (PFDA)	2.0	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
Perfluorohexanesulfonic acid (PFHxS)	15	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.2	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
Perfluoroheptanoic acid (PFHpA)	11	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
Perfluorooctanoic acid (PFOA)	11	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
Perfluorooctanesulfonic acid (PFOS)	40	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL
Perfluorononanoic acid (PFNA)	2.6	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:04	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	101	50-200	7/29/22 16:04
M2-8:2FTS	138	50-200	7/29/22 16:04
MPFBA	90.8	50-200	7/29/22 16:04
M3HFPO-DA	75.4	50-200	7/29/22 16:04
M6PFDA	76.3	50-200	7/29/22 16:04
M3PFBS	99.3	50-200	7/29/22 16:04
M7PFUnA	70.2	50-200	7/29/22 16:04
M2-6:2FTS	128	50-200	7/29/22 16:04
M5PFPeA	119	50-200	7/29/22 16:04
M5PFHxA	87.0	50-200	7/29/22 16:04
M3PFHxS	96.7	50-200	7/29/22 16:04
M4PFHpA	85.9	50-200	7/29/22 16:04
M8PFOA	82.8	50-200	7/29/22 16:04
M8PFOS	91.2	50-200	7/29/22 16:04
M9PFNA	85.7	50-200	7/29/22 16:04
MPFDoA	57.9	50-200	7/29/22 16:04

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: WL-6A-B

Sampled: 7/12/2022 10:40

Sample ID: 22G0869-08

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	14	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
Perfluorobutanesulfonic acid (PFBS)	4.1	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
Perfluoropentanoic acid (PFPeA)	32	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
Perfluorohexanoic acid (PFHxA)	25	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
Perfluorodecanoic acid (PFDA)	1.8	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
Perfluorohexanesulfonic acid (PFHxS)	18	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.5	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
Perfluoroheptanoic acid (PFHpA)	13	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
Perfluorooctanoic acid (PFOA)	12	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
Perfluorooctanesulfonic acid (PFOS)	42	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL
Perfluorononanoic acid (PFNA)	2.6	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:11	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	82.8	50-200	7/29/22 16:11
M2-8:2FTS	127	50-200	7/29/22 16:11
MPFBA	75.8	50-200	7/29/22 16:11
M3HFPO-DA	59.9	50-200	7/29/22 16:11
M6PFDA	69.5	50-200	7/29/22 16:11
M3PFBS	83.1	50-200	7/29/22 16:11
M7PFUnA	66.7	50-200	7/29/22 16:11
M2-6:2FTS	109	50-200	7/29/22 16:11
M5PFPeA	100	50-200	7/29/22 16:11
M5PFHxA	70.8	50-200	7/29/22 16:11
M3PFHxS	81.7	50-200	7/29/22 16:11
M4PFHpA	69.2	50-200	7/29/22 16:11
M8PFOA	70.1	50-200	7/29/22 16:11
M8PFOS	82.9	50-200	7/29/22 16:11
M9PFNA	69.8	50-200	7/29/22 16:11
MPFDoA	60.1	50-200	7/29/22 16:11

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: WL-6A-M

Sampled: 7/12/2022 10:45

Sample ID: 22G0869-09

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	15	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
Perfluorobutanesulfonic acid (PFBS)	4.1	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
Perfluoropentanoic acid (PFPeA)	33	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
Perfluorohexanoic acid (PFHxA)	24	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
Perfluorodecanoic acid (PFDA)	1.8	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
Perfluorohexanesulfonic acid (PFHxS)	16	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	25	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.3	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
Perfluoroheptanoic acid (PFHpA)	12	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
Perfluorooctanoic acid (PFOA)	11	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
Perfluorooctanesulfonic acid (PFOS)	44	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL
Perfluorononanoic acid (PFNA)	2.8	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:19	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	104	50-200	7/29/22 16:19
M2-8:2FTS	140	50-200	7/29/22 16:19
MPFBA	96.1	50-200	7/29/22 16:19
M3HFPO-DA	87.5	50-200	7/29/22 16:19
M6PFDA	90.1	50-200	7/29/22 16:19
M3PFBS	101	50-200	7/29/22 16:19
M7PFUnA	82.6	50-200	7/29/22 16:19
M2-6:2FTS	137	50-200	7/29/22 16:19
M5PFPeA	128	50-200	7/29/22 16:19
M5PFHxA	93.6	50-200	7/29/22 16:19
M3PFHxS	101	50-200	7/29/22 16:19
M4PFHpA	90.7	50-200	7/29/22 16:19
M8PFOA	92.8	50-200	7/29/22 16:19
M8PFOS	96.9	50-200	7/29/22 16:19
M9PFNA	88.7	50-200	7/29/22 16:19
MPFDoA	71.4	50-200	7/29/22 16:19

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: WL-6A-T

Sampled: 7/12/2022 10:50

Sample ID: 22G0869-10

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	15	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH
Perfluorobutanesulfonic acid (PFBS)	3.6	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH
Perfluoropentanoic acid (PFPeA)	30	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH
Perfluorohexanoic acid (PFHxA)	22	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH
Perfluorohexanesulfonic acid (PFHxS)	14	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	30	1.7		ng/L	1	B	EPA 533	8/3/22	8/6/22 12:19	BLH
Perfluoropetanesulfonic acid (PFPeS)	1.7	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH
Perfluoroheptanoic acid (PFHpA)	9.4	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH
Perfluorooctanoic acid (PFOA)	10	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH
Perfluorooctanesulfonic acid (PFOS)	35	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH
Perfluorononanoic acid (PFNA)	2.5	1.7		ng/L	1		EPA 533	8/3/22	8/6/22 12:19	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	111	50-200	8/6/22 12:19
M2-8:2FTS	145	50-200	8/6/22 12:19
MPFBA	102	50-200	8/6/22 12:19
M3HFPO-DA	80.7	50-200	8/6/22 12:19
M6PFDA	92.0	50-200	8/6/22 12:19
M3PFBS	95.4	50-200	8/6/22 12:19
M7PFUnA	81.9	50-200	8/6/22 12:19
M2-6:2FTS	168	50-200	8/6/22 12:19
M5PFPeA	132	50-200	8/6/22 12:19
M5PFHxA	87.3	50-200	8/6/22 12:19
M3PFHxS	108	50-200	8/6/22 12:19
M4PFHpA	91.6	50-200	8/6/22 12:19
M8PFOA	98.2	50-200	8/6/22 12:19
M8PFOS	97.4	50-200	8/6/22 12:19
M9PFNA	94.2	50-200	8/6/22 12:19
MPFDoA	86.6	50-200	8/6/22 12:19

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: WL-5A-B

Sampled: 7/12/2022 10:55

Sample ID: 22G0869-11

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	14	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL
Perfluorobutanesulfonic acid (PFBS)	4.3	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL
Perfluoropentanoic acid (PFPeA)	34	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL
Perfluorohexanoic acid (PFHxA)	26	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL
Perfluorodecanoic acid (PFDA)	1.9	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL
Perfluorohexanesulfonic acid (PFHxS)	18	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.5	1.7		ng/L	1	V-06	EPA 533	7/28/22	7/29/22 16:47	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL
Perfluoroheptanoic acid (PFHpA)	12	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL
Perfluorooctanoic acid (PFOA)	13	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL
Perfluorooctanesulfonic acid (PFOS)	50	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL
Perfluorononanoic acid (PFNA)	2.9	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:47	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	99.4	50-200	7/29/22 16:47
M2-8:2FTS	152	50-200	7/29/22 16:47
MPFBA	93.2	50-200	7/29/22 16:47
M3HFPO-DA	86.6	50-200	7/29/22 16:47
M6PFDA	87.5	50-200	7/29/22 16:47
M3PFBS	100	50-200	7/29/22 16:47
M7PFUnA	83.5	50-200	7/29/22 16:47
M2-6:2FTS	146	50-200	7/29/22 16:47
M5PFPeA	125	50-200	7/29/22 16:47
M5PFHxA	91.6	50-200	7/29/22 16:47
M3PFHxS	97.0	50-200	7/29/22 16:47
M4PFHpA	90.5	50-200	7/29/22 16:47
M8PFOA	88.1	50-200	7/29/22 16:47
M8PFOS	91.2	50-200	7/29/22 16:47
M9PFNA	87.0	50-200	7/29/22 16:47
MPFDoA	74.8	50-200	7/29/22 16:47

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: WL-5A-M

Sampled: 7/12/2022 11:00

Sample ID: 22G0869-12

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	15	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL
Perfluorobutanesulfonic acid (PFBS)	4.3	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL
Perfluoropentanoic acid (PFPeA)	35	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL
Perfluorohexanoic acid (PFHxA)	26	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL
Perfluorodecanoic acid (PFDA)	2.0	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL
Perfluorohexanesulfonic acid (PFHxS)	17	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	46	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.3	1.7		ng/L	1	V-06	EPA 533	7/28/22	7/29/22 16:55	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL
Perfluoroheptanoic acid (PFHpA)	12	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL
Perfluorooctanoic acid (PFOA)	12	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL
Perfluorooctanesulfonic acid (PFOS)	45	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL
Perfluorononanoic acid (PFNA)	3.2	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 16:55	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	96.0	50-200	7/29/22 16:55
M2-8:2FTS	142	50-200	7/29/22 16:55
MPFBA	87.7	50-200	7/29/22 16:55
M3HFPO-DA	86.2	50-200	7/29/22 16:55
M6PFDA	73.8	50-200	7/29/22 16:55
M3PFBS	91.4	50-200	7/29/22 16:55
M7PFUnA	69.2	50-200	7/29/22 16:55
M2-6:2FTS	129	50-200	7/29/22 16:55
M5PFPeA	120	50-200	7/29/22 16:55
M5PFHxA	81.4	50-200	7/29/22 16:55
M3PFHxS	89.1	50-200	7/29/22 16:55
M4PFHpA	79.4	50-200	7/29/22 16:55
M8PFOA	81.7	50-200	7/29/22 16:55
M8PFOS	89.3	50-200	7/29/22 16:55
M9PFNA	77.1	50-200	7/29/22 16:55
MPFDoA	59.0	50-200	7/29/22 16:55

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: WL-5A-T

Sampled: 7/12/2022 11:05

Sample ID: 22G0869-13

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	13	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL
Perfluorobutanesulfonic acid (PFBS)	4.1	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL
Perfluoropentanoic acid (PFPeA)	31	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL
Perfluorohexanoic acid (PFHxA)	23	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL
Perfluorohexanesulfonic acid (PFHxS)	14	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	38	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.1	1.7		ng/L	1	V-06	EPA 533	7/28/22	7/29/22 17:02	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL
Perfluoroheptanoic acid (PFHpA)	11	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL
Perfluorooctanoic acid (PFOA)	10	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL
Perfluorooctanesulfonic acid (PFOS)	36	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL
Perfluorononanoic acid (PFNA)	2.2	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:02	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	94.5	50-200	7/29/22 17:02
M2-8:2FTS	150	50-200	7/29/22 17:02
MPFBA	90.0	50-200	7/29/22 17:02
M3HFPO-DA	77.0	50-200	7/29/22 17:02
M6PFDA	82.7	50-200	7/29/22 17:02
M3PFBS	94.3	50-200	7/29/22 17:02
M7PFUnA	81.7	50-200	7/29/22 17:02
M2-6:2FTS	128	50-200	7/29/22 17:02
M5PFPeA	118	50-200	7/29/22 17:02
M5PFHxA	86.0	50-200	7/29/22 17:02
M3PFHxS	93.0	50-200	7/29/22 17:02
M4PFHpA	83.6	50-200	7/29/22 17:02
M8PFOA	85.0	50-200	7/29/22 17:02
M8PFOS	91.6	50-200	7/29/22 17:02
M9PFNA	85.6	50-200	7/29/22 17:02
MPFDoA	65.4	50-200	7/29/22 17:02

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: ML-2A(6'')

Sampled: 7/12/2022 12:30

Sample ID: 22G0869-14

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	4.6	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
Perfluorobutanesulfonic acid (PFBS)	6.2	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
Perfluoropentanoic acid (PFPeA)	12	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
Perfluorohexanoic acid (PFHxA)	6.8	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
Perfluorohexanesulfonic acid (PFHxS)	4.7	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	41	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
Perfluoroheptanoic acid (PFHpA)	5.1	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
Perfluorooctanoic acid (PFOA)	11	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
Perfluorooctanesulfonic acid (PFOS)	15	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:09	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	101	50-200	7/29/22 17:09
M2-8:2FTS	160	50-200	7/29/22 17:09
MPFBA	93.3	50-200	7/29/22 17:09
M3HFPO-DA	81.0	50-200	7/29/22 17:09
M6PFDA	92.8	50-200	7/29/22 17:09
M3PFBS	94.4	50-200	7/29/22 17:09
M7PFUnA	90.6	50-200	7/29/22 17:09
M2-6:2FTS	153	50-200	7/29/22 17:09
M5PFPeA	116	50-200	7/29/22 17:09
M5PFHxA	95.1	50-200	7/29/22 17:09
M3PFHxS	95.9	50-200	7/29/22 17:09
M4PFHpA	94.6	50-200	7/29/22 17:09
M8PFOA	92.8	50-200	7/29/22 17:09
M8PFOS	90.5	50-200	7/29/22 17:09
M9PFNA	98.2	50-200	7/29/22 17:09
MPFDoA	90.3	50-200	7/29/22 17:09

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: ML-2A-(SW)

Sampled: 7/12/2022 12:35

Sample ID: 22G0869-15

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	4.9	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
Perfluorobutanesulfonic acid (PFBS)	6.5	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
Perfluoropentanoic acid (PFPeA)	10	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
Perfluorohexanoic acid (PFHxA)	7.2	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
Perfluorohexanesulfonic acid (PFHxS)	4.8	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.6	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
Perfluoroheptanoic acid (PFHpA)	5.4	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
Perfluorooctanoic acid (PFOA)	12	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
Perfluorooctanesulfonic acid (PFOS)	16	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:16	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	95.7	50-200	7/29/22 17:16
M2-8:2FTS	140	50-200	7/29/22 17:16
MPFBA	83.9	50-200	7/29/22 17:16
M3HFPO-DA	69.4	50-200	7/29/22 17:16
M6PFDA	80.6	50-200	7/29/22 17:16
M3PFBS	91.3	50-200	7/29/22 17:16
M7PFUnA	77.0	50-200	7/29/22 17:16
M2-6:2FTS	147	50-200	7/29/22 17:16
M5PFPeA	94.3	50-200	7/29/22 17:16
M5PFHxA	82.7	50-200	7/29/22 17:16
M3PFHxS	90.9	50-200	7/29/22 17:16
M4PFHpA	80.5	50-200	7/29/22 17:16
M8PFOA	81.2	50-200	7/29/22 17:16
M8PFOS	88.2	50-200	7/29/22 17:16
M9PFNA	81.1	50-200	7/29/22 17:16
MPFDoA	73.4	50-200	7/29/22 17:16

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: ML-3A-(6")

Sampled: 7/12/2022 12:45

Sample ID: 22G0869-16

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	6.7	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
Perfluorobutanesulfonic acid (PFBS)	5.5	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
Perfluoropentanoic acid (PFPeA)	11	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
Perfluorohexanoic acid (PFHxA)	7.2	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
Perfluorohexanesulfonic acid (PFHxS)	4.0	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
Perfluoroheptanoic acid (PFHpA)	5.4	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
Perfluorooctanoic acid (PFOA)	10	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
Perfluorooctanesulfonic acid (PFOS)	14	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL
Perfluorononanoic acid (PFNA)	1.9	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:23	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	124	50-200	7/29/22 17:23
M2-8:2FTS	151	50-200	7/29/22 17:23
MPFBA	102	50-200	7/29/22 17:23
M3HFPO-DA	85.6	50-200	7/29/22 17:23
M6PFDA	84.2	50-200	7/29/22 17:23
M3PFBS	103	50-200	7/29/22 17:23
M7PFUnA	77.8	50-200	7/29/22 17:23
M2-6:2FTS	189	50-200	7/29/22 17:23
M5PFPeA	126	50-200	7/29/22 17:23
M5PFHxA	98.2	50-200	7/29/22 17:23
M3PFHxS	103	50-200	7/29/22 17:23
M4PFHpA	96.1	50-200	7/29/22 17:23
M8PFOA	97.0	50-200	7/29/22 17:23
M8PFOS	99.1	50-200	7/29/22 17:23
M9PFNA	89.9	50-200	7/29/22 17:23
MPFDoA	64.3	50-200	7/29/22 17:23

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: SS-3A(SW)

Sampled: 7/12/2022 12:50

Sample ID: 22G0869-17

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	6.2	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
Perfluorobutanesulfonic acid (PFBS)	5.4	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
Perfluoropentanoic acid (PFPeA)	11	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
Perfluorohexanoic acid (PFHxA)	6.8	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
Perfluorohexanesulfonic acid (PFHxS)	3.8	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
Perfluoroheptanoic acid (PFHpA)	5.1	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
Perfluorooctanoic acid (PFOA)	10	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
Perfluorooctanesulfonic acid (PFOS)	11	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL
Perfluorononanoic acid (PFNA)	1.8	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:30	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	117	50-200	7/29/22 17:30
M2-8:2FTS	160	50-200	7/29/22 17:30
MPFBA	99.1	50-200	7/29/22 17:30
M3HFPO-DA	77.0	50-200	7/29/22 17:30
M6PFDA	95.7	50-200	7/29/22 17:30
M3PFBS	94.2	50-200	7/29/22 17:30
M7PFUnA	92.0	50-200	7/29/22 17:30
M2-6:2FTS	174	50-200	7/29/22 17:30
M5PFPeA	121	50-200	7/29/22 17:30
M5PFHxA	97.6	50-200	7/29/22 17:30
M3PFHxS	95.3	50-200	7/29/22 17:30
M4PFHpA	98.0	50-200	7/29/22 17:30
M8PFOA	96.1	50-200	7/29/22 17:30
M8PFOS	101	50-200	7/29/22 17:30
M9PFNA	93.0	50-200	7/29/22 17:30
MPFDoA	88.1	50-200	7/29/22 17:30

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: SS-6A(6'')

Sampled: 7/12/2022 13:20

Sample ID: 22G0869-18

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	16	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL
Perfluorobutanesulfonic acid (PFBS)	6.1	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL
Perfluoropentanoic acid (PFPeA)	33	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL
Perfluorohexanoic acid (PFHxA)	22	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL
Perfluorodecanoic acid (PFDA)	2.3	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL
Perfluorohexanesulfonic acid (PFHxS)	30	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL
Perfluoropentanesulfonic acid (PFPeS)	3.3	1.8		ng/L	1	V-06	EPA 533	7/28/22	7/29/22 17:38	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL
Perfluoroheptanoic acid (PFHpA)	16	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL
Perfluorooctanoic acid (PFOA)	18	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL
Perfluorooctanesulfonic acid (PFOS)	59	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL
Perfluorononanoic acid (PFNA)	4.4	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:38	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	122	50-200	7/29/22 17:38
M2-8:2FTS	155	50-200	7/29/22 17:38
MPFBA	97.9	50-200	7/29/22 17:38
M3HFPO-DA	89.7	50-200	7/29/22 17:38
M6PFDA	95.4	50-200	7/29/22 17:38
M3PFBS	110	50-200	7/29/22 17:38
M7PFUnA	98.4	50-200	7/29/22 17:38
M2-6:2FTS	167	50-200	7/29/22 17:38
M5PFPeA	135	50-200	7/29/22 17:38
M5PFHxA	105	50-200	7/29/22 17:38
M3PFHxS	110	50-200	7/29/22 17:38
M4PFHpA	104	50-200	7/29/22 17:38
M8PFOA	97.8	50-200	7/29/22 17:38
M8PFOS	106	50-200	7/29/22 17:38
M9PFNA	98.4	50-200	7/29/22 17:38
MPFDoA	75.8	50-200	7/29/22 17:38

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: SS-6A(SW)

Sampled: 7/12/2022 13:25

Sample ID: 22G0869-19

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	15	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL
Perfluorobutanesulfonic acid (PFBS)	5.6	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL
Perfluoropentanoic acid (PFPeA)	31	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL
Perfluorohexanoic acid (PFHxA)	21	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL
Perfluorodecanoic acid (PFDA)	2.4	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL
Perfluorohexanesulfonic acid (PFHxS)	28	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL
Perfluoropetanesulfonic acid (PFPeS)	3.1	1.7		ng/L	1	V-06	EPA 533	7/28/22	7/29/22 17:45	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL
Perfluoroheptanoic acid (PFHpA)	15	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL
Perfluorooctanoic acid (PFOA)	17	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL
Perfluorooctanesulfonic acid (PFOS)	59	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL
Perfluorononanoic acid (PFNA)	4.7	1.7		ng/L	1		EPA 533	7/28/22	7/29/22 17:45	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	118	50-200	7/29/22 17:45
M2-8:2FTS	152	50-200	7/29/22 17:45
MPFBA	98.0	50-200	7/29/22 17:45
M3HFPO-DA	79.8	50-200	7/29/22 17:45
M6PFDA	94.1	50-200	7/29/22 17:45
M3PFBS	103	50-200	7/29/22 17:45
M7PFUnA	94.1	50-200	7/29/22 17:45
M2-6:2FTS	161	50-200	7/29/22 17:45
M5PFPeA	134	50-200	7/29/22 17:45
M5PFHxA	101	50-200	7/29/22 17:45
M3PFHxS	102	50-200	7/29/22 17:45
M4PFHpA	98.1	50-200	7/29/22 17:45
M8PFOA	94.7	50-200	7/29/22 17:45
M8PFOS	95.6	50-200	7/29/22 17:45
M9PFNA	94.2	50-200	7/29/22 17:45
MPFDoA	80.6	50-200	7/29/22 17:45

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: MC-2A(6'')

Sampled: 7/12/2022 13:55

Sample ID: 22G0869-20

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	5.7	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
Perfluorobutanesulfonic acid (PFBS)	3.7	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
Perfluoropentanoic acid (PFPeA)	12	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
Perfluorohexanoic acid (PFHxA)	9.0	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
Perfluorohexanesulfonic acid (PFHxS)	8.2	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	5.3	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
Perfluoroheptanoic acid (PFHpA)	5.3	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
Perfluorooctanoic acid (PFOA)	7.8	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
Perfluorooctanesulfonic acid (PFOS)	24	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	7/28/22	7/29/22 17:52	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	100	50-200	7/29/22 17:52
M2-8:2FTS	136	50-200	7/29/22 17:52
MPFBA	86.5	50-200	7/29/22 17:52
M3HFPO-DA	81.0	50-200	7/29/22 17:52
M6PFDA	81.4	50-200	7/29/22 17:52
M3PFBS	95.3	50-200	7/29/22 17:52
M7PFUnA	81.6	50-200	7/29/22 17:52
M2-6:2FTS	137	50-200	7/29/22 17:52
M5PFPeA	117	50-200	7/29/22 17:52
M5PFHxA	95.7	50-200	7/29/22 17:52
M3PFHxS	93.2	50-200	7/29/22 17:52
M4PFHpA	93.5	50-200	7/29/22 17:52
M8PFOA	83.1	50-200	7/29/22 17:52
M8PFOS	79.7	50-200	7/29/22 17:52
M9PFNA	87.4	50-200	7/29/22 17:52
MPFDoA	58.1	50-200	7/29/22 17:52

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: MC-2A(SW)

Sampled: 7/12/2022 14:00

Sample ID: 22G0869-21

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	5.6	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
Perfluorobutanesulfonic acid (PFBS)	3.5	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
Perfluoropentanoic acid (PFPeA)	11	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
Perfluorohexanoic acid (PFHxA)	8.0	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
Perfluorohexanesulfonic acid (PFHxS)	7.6	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	4.7	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
Perfluoroheptanoic acid (PFHpA)	4.7	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
Perfluorooctanoic acid (PFOA)	7.1	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
Perfluorooctanesulfonic acid (PFOS)	25	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:06	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	120	50-200	8/10/22 13:06
M2-8:2FTS	121	50-200	8/10/22 13:06
MPFBA	111	50-200	8/10/22 13:06
M3HFPO-DA	105	50-200	8/10/22 13:06
M6PFDA	103	50-200	8/10/22 13:06
M3PFBS	103	50-200	8/10/22 13:06
M7PFUnA	56.3	50-200	8/10/22 13:06
M2-6:2FTS	147	50-200	8/10/22 13:06
M5PFPeA	153	50-200	8/10/22 13:06
M5PFHxA	116	50-200	8/10/22 13:06
M3PFHxS	107	50-200	8/10/22 13:06
M4PFHpA	111	50-200	8/10/22 13:06
M8PFOA	112	50-200	8/10/22 13:06
M8PFOS	94.5	50-200	8/10/22 13:06
M9PFNA	105	50-200	8/10/22 13:06
MPFDoA	41.9 *	50-200	PF-18 8/10/22 13:06

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: MC-1A(6'')

Sampled: 7/12/2022 13:35

Sample ID: 22G0869-22

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	5.1	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
Perfluorobutanoic acid (PFBA)	4.4	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
Perfluorobutanesulfonic acid (PFBS)	3.8	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
Perfluorobutanesulfonic acid (PFBS)	3.1	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
Perfluoropentanoic acid (PFPeA)	9.4	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
Perfluoropentanoic acid (PFPeA)	8.4	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
Perfluorohexanoic acid (PFHxA)	7.6	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
Perfluorohexanoic acid (PFHxA)	6.9	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
Perfluorohexanesulfonic acid (PFHxS)	6.2	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
Perfluorohexanesulfonic acid (PFHxS)	4.9	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	6.8	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	5.3	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: MC-1A(6'')

Sampled: 7/12/2022 13:35

Sample ID: 22G0869-22

Sample Matrix: Drinking Water

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
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
Perfluoroheptanoic acid (PFHpA)	4.1	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
Perfluoroheptanoic acid (PFHpA)	3.5	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
Perfluorooctanoic acid (PFOA)	6.7	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
Perfluorooctanoic acid (PFOA)	6.0	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
Perfluorooctanesulfonic acid (PFOS)	19	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
Perfluorooctanesulfonic acid (PFOS)	16	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 17:50	BLH
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:14	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	135	50-200	8/6/22 17:50
M2-4:2FTS	92.2	50-200	8/10/22 13:14
M2-8:2FTS	164	50-200	8/6/22 17:50
M2-8:2FTS	108	50-200	8/10/22 13:14
MPFBA	98.6	50-200	8/6/22 17:50
MPFBA	95.0	50-200	8/10/22 13:14
M3HFPO-DA	72.0	50-200	8/6/22 17:50
M3HFPO-DA	103	50-200	8/10/22 13:14
M6PFDA	98.3	50-200	8/6/22 17:50
M6PFDA	93.1	50-200	8/10/22 13:14
M3PFBS	104	50-200	8/6/22 17:50
M3PFBS	91.1	50-200	8/10/22 13:14
M7PFUnA	77.6	50-200	8/6/22 17:50
M7PFUnA	78.7	50-200	8/10/22 13:14
M2-6:2FTS	227 *	50-200	Z-01 8/6/22 17:50
M2-6:2FTS	136	50-200	8/10/22 13:14
M5PFPeA	118	50-200	8/6/22 17:50
M5PFPeA	126	50-200	8/10/22 13:14
M5PFHxA	86.1	50-200	8/6/22 17:50
M5PFHxA	96.8	50-200	8/10/22 13:14
M3PFHxS	121	50-200	8/6/22 17:50
M3PFHxS	90.8	50-200	8/10/22 13:14
M4PFHpA	86.8	50-200	8/6/22 17:50
M4PFHpA	92.1	50-200	8/10/22 13:14
M8PFOA	93.2	50-200	8/6/22 17:50
M8PFOA	96.1	50-200	8/10/22 13:14
M8PFOS	109	50-200	8/6/22 17:50
M8PFOS	90.6	50-200	8/10/22 13:14
M9PFNA	85.7	50-200	8/6/22 17:50
M9PFNA	94.6	50-200	8/10/22 13:14
MPFDoA	50.8	50-200	8/6/22 17:50
MPFDoA	35.0 *	50-200	Z-01 8/10/22 13:14

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: MC-1A(SW)

Sampled: 7/12/2022 13:40

Sample ID: 22G0869-23

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	4.8	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
Perfluorobutanesulfonic acid (PFBS)	3.6	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
Perfluoropentanoic acid (PFPeA)	9.1	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
Perfluorohexanoic acid (PFHxA)	7.4	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
Perfluorohexanesulfonic acid (PFHxS)	5.9	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	6.0	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
Perfluoroheptanoic acid (PFHpA)	4.0	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
Perfluorooctanoic acid (PFOA)	6.3	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
Perfluorooctanesulfonic acid (PFOS)	16	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 17:57	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	115	50-200	
M2-8:2FTS	149	50-200	
MPFBA	94.0	50-200	
M3HFPO-DA	79.5	50-200	
M6PFDA	84.4	50-200	
M3PFBS	89.7	50-200	
M7PFUnA	58.3	50-200	
M2-6:2FTS	211 *	50-200	PF-18
M5PFPeA	128	50-200	
M5PFHxA	86.2	50-200	
M3PFHxS	105	50-200	
M4PFHpA	88.5	50-200	
M8PFOA	97.8	50-200	
M8PFOS	96.5	50-200	
M9PFNA	83.1	50-200	
MPFDoA	40.4 *	50-200	PF-18

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: MC-3A(6'')

Sampled: 7/12/2022 14:15

Sample ID: 22G0869-24

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	5.9	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
Perfluorobutanoic acid (PFBA)	6.5	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
Perfluorobutanesulfonic acid (PFBS)	3.8	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
Perfluorobutanesulfonic acid (PFBS)	3.9	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
Perfluoropentanoic acid (PFPeA)	11	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
Perfluoropentanoic acid (PFPeA)	13	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
Perfluorohexanoic acid (PFHxA)	8.7	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
Perfluorohexanoic acid (PFHxA)	8.8	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
Perfluorohexanesulfonic acid (PFHxS)	8.6	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
Perfluorohexanesulfonic acid (PFHxS)	9.5	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	3.0	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	3.2	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: MC-3A(6'')

Sampled: 7/12/2022 14:15

Sample ID: 22G0869-24

Sample Matrix: Drinking Water

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
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
Perfluoroheptanoic acid (PFHpA)	5.2	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
Perfluoroheptanoic acid (PFHpA)	5.6	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
Perfluorooctanoic acid (PFOA)	7.3	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
Perfluorooctanoic acid (PFOA)	8.7	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
Perfluorooctanesulfonic acid (PFOS)	22	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
Perfluorooctanesulfonic acid (PFOS)	25	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:04	BLH
Perfluorononanoic acid (PFNA)	1.8	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:28	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	139	50-200	
M2-4:2FTS	112	50-200	
M2-8:2FTS	190	50-200	
M2-8:2FTS	139	50-200	
MPFBA	106	50-200	
MPFBA	87.4	50-200	
M3HFPO-DA	83.3	50-200	
M3HFPO-DA	126	50-200	
M6PFDA	113	50-200	
M6PFDA	68.7	50-200	
M3PFBS	106	50-200	
M3PFBS	104	50-200	
M7PFUnA	97.7	50-200	
M7PFUnA	27.7 *	50-200	Z-01
M2-6:2FTS	214 *	50-200	Z-01
M2-6:2FTS	152	50-200	
M5PFPeA	148	50-200	
M5PFPeA	123	50-200	
M5PFHxA	98.7	50-200	
M5PFHxA	111	50-200	
M3PFHxS	122	50-200	
M3PFHxS	91.5	50-200	
M4PFHpA	100	50-200	
M4PFHpA	92.2	50-200	
M8PFOA	112	50-200	
M8PFOA	82.8	50-200	
M8PFOS	106	50-200	
M8PFOS	83.5	50-200	
M9PFNA	102	50-200	
M9PFNA	79.2	50-200	
MPFDoA	91.1	50-200	
MPFDoA	24.9 *	50-200	Z-01

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: MC-3A(SW)

Sampled: 7/12/2022 14:20

Sample ID: 22G0869-25

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	6.4	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
Perfluorobutanesulfonic acid (PFBS)	3.9	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
Perfluoropentanoic acid (PFPeA)	11	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
Perfluorohexanoic acid (PFHxA)	8.7	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
Perfluorohexanesulfonic acid (PFHxS)	9.3	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	3.3	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
Perfluoroheptanoic acid (PFHpA)	4.7	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
Perfluorooctanoic acid (PFOA)	8.1	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
Perfluorooctanesulfonic acid (PFOS)	39	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH
Perfluorononanoic acid (PFNA)	2.0	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 18:11	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	124	50-200	8/6/22 18:11
M2-8:2FTS	185	50-200	8/6/22 18:11
MPFBA	102	50-200	8/6/22 18:11
M3HFPO-DA	75.7	50-200	8/6/22 18:11
M6PFDA	92.7	50-200	8/6/22 18:11
M3PFBS	96.4	50-200	8/6/22 18:11
M7PFUnA	87.5	50-200	8/6/22 18:11
M2-6:2FTS	190	50-200	8/6/22 18:11
M5PFPeA	138	50-200	8/6/22 18:11
M5PFHxA	88.8	50-200	8/6/22 18:11
M3PFHxS	109	50-200	8/6/22 18:11
M4PFHpA	91.5	50-200	8/6/22 18:11
M8PFOA	90.0	50-200	8/6/22 18:11
M8PFOS	97.0	50-200	8/6/22 18:11
M9PFNA	83.6	50-200	8/6/22 18:11
MPFDoA	76.4	50-200	8/6/22 18:11

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: MC-4A(6'')

Sampled: 7/13/2022 08:55

Sample ID: 22G0869-26

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	7.6	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
Perfluorobutanesulfonic acid (PFBS)	4.0	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
Perfluoropentanoic acid (PFPeA)	14	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
Perfluorohexanoic acid (PFHxA)	9.7	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
Perfluorohexanesulfonic acid (PFHxS)	9.3	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
Perfluoroheptanoic acid (PFHpA)	5.7	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
Perfluorooctanoic acid (PFOA)	7.9	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
Perfluorooctanesulfonic acid (PFOS)	21	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:18	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	101	50-200	8/6/22 18:18
M2-8:2FTS	155	50-200	8/6/22 18:18
MPFBA	95.8	50-200	8/6/22 18:18
M3HFPO-DA	70.7	50-200	8/6/22 18:18
M6PFDA	90.9	50-200	8/6/22 18:18
M3PFBS	85.5	50-200	8/6/22 18:18
M7PFUnA	68.3	50-200	8/6/22 18:18
M2-6:2FTS	162	50-200	8/6/22 18:18
M5PFPeA	113	50-200	8/6/22 18:18
M5PFHxA	80.7	50-200	8/6/22 18:18
M3PFHxS	99.7	50-200	8/6/22 18:18
M4PFHpA	83.1	50-200	8/6/22 18:18
M8PFOA	87.8	50-200	8/6/22 18:18
M8PFOS	88.2	50-200	8/6/22 18:18
M9PFNA	81.5	50-200	8/6/22 18:18
MPFDoA	70.8	50-200	8/6/22 18:18

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: MC-4A(SW)

Sampled: 7/13/2022 09:00

Sample ID: 22G0869-27

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	7.5	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
Perfluorobutanoic acid (PFBA)	7.1	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
Perfluorobutanesulfonic acid (PFBS)	4.6	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
Perfluorobutanesulfonic acid (PFBS)	3.8	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
Perfluoropentanoic acid (PFPeA)	14	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
Perfluoropentanoic acid (PFPeA)	13	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
Perfluorohexanoic acid (PFHxA)	9.9	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
Perfluorohexanoic acid (PFHxA)	8.8	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
Perfluorohexanesulfonic acid (PFHxS)	9.5	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
Perfluorohexanesulfonic acid (PFHxS)	8.0	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: MC-4A(SW)

Sampled: 7/13/2022 09:00

Sample ID: 22G0869-27

Sample Matrix: Drinking Water

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
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
Perfluoroheptanoic acid (PFHpA)	5.9	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
Perfluoroheptanoic acid (PFHpA)	5.5	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
Perfluorooctanoic acid (PFOA)	7.6	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
Perfluorooctanoic acid (PFOA)	6.6	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
Perfluorooctanesulfonic acid (PFOS)	21	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
Perfluorooctanesulfonic acid (PFOS)	19	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 18:26	BLH
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:35	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	109	50-200	
M2-4:2FTS	102	50-200	
M2-8:2FTS	150	50-200	
M2-8:2FTS	125	50-200	
MPFBA	95.9	50-200	
MPFBA	98.8	50-200	
M3HFPO-DA	70.8	50-200	
M3HFPO-DA	96.0	50-200	
M6PFDA	83.5	50-200	
M6PFDA	102	50-200	
M3PFBS	90.3	50-200	
M3PFBS	97.4	50-200	
M7PFUnA	71.0	50-200	
M7PFUnA	65.0	50-200	
M2-6:2FTS	203 *	50-200	Z-01
M2-6:2FTS	141	50-200	
M5PFPeA	122	50-200	
M5PFPeA	125	50-200	
M5PFHxA	80.1	50-200	
M5PFHxA	102	50-200	
M3PFHxS	108	50-200	
M3PFHxS	95.9	50-200	
M4PFHpA	82.0	50-200	
M4PFHpA	91.5	50-200	
M8PFOA	87.9	50-200	
M8PFOA	101	50-200	
M8PFOS	93.8	50-200	
M8PFOS	98.1	50-200	
M9PFNA	83.0	50-200	
M9PFNA	95.8	50-200	
MPFDoA	51.6	50-200	
MPFDoA	33.1 *	50-200	Z-01

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: SS-5A(6'')

Sampled: 7/13/2022 09:15

Sample ID: 22G0869-28

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	26	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH
Perfluorobutanesulfonic acid (PFBS)	7.1	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH
Perfluoropentanoic acid (PFPeA)	55	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH
Perfluorohexanoic acid (PFHxA)	37	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	2.7	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH
Perfluorodecanoic acid (PFDA)	4.1	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH
Perfluoroheptanesulfonic acid (PFHpS)	3.3	1.7		ng/L	1	V-06	EPA 533	8/8/22	8/10/22 13:42	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH
Perfluorohexanesulfonic acid (PFHxS)	42	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	7.6	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH
Perfluoropentanesulfonic acid (PFPeS)	4.1	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH
Perfluoroheptanoic acid (PFHpA)	23	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH
Perfluorooctanoic acid (PFOA)	24	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH
Perfluorooctanesulfonic acid (PFOS)	94	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH
Perfluorononanoic acid (PFNA)	6.9	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 13:42	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	156	50-200	8/10/22 13:42
M2-8:2FTS	190	50-200	8/10/22 13:42
MPFBA	92.8	50-200	8/10/22 13:42
M3HFPO-DA	75.6	50-200	8/10/22 13:42
M6PFDA	102	50-200	8/10/22 13:42
M3PFBS	92.7	50-200	8/10/22 13:42
M7PFUnA	91.3	50-200	8/10/22 13:42
M2-6:2FTS	200	50-200	8/10/22 13:42
M5PFPeA	145	50-200	8/10/22 13:42
M5PFHxA	91.7	50-200	8/10/22 13:42
M3PFHxS	96.1	50-200	8/10/22 13:42
M4PFHpA	87.5	50-200	8/10/22 13:42
M8PFOA	98.1	50-200	8/10/22 13:42
M8PFOS	97.5	50-200	8/10/22 13:42
M9PFNA	85.3	50-200	8/10/22 13:42
MPFDoA	86.3	50-200	8/10/22 13:42

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: SS-5A(SW)

Sampled: 7/13/2022 09:20

Sample ID: 22G0869-29

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	26	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH
Perfluorobutanesulfonic acid (PFBS)	7.9	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH
Perfluoropentanoic acid (PFPeA)	58	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH
Perfluorohexanoic acid (PFHxA)	39	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	2.6	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH
Perfluorodecanoic acid (PFDA)	4.2	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH
Perfluoroheptanesulfonic acid (PFHpS)	2.7	1.8		ng/L	1	V-06	EPA 533	8/8/22	8/10/22 13:50	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH
Perfluorohexanesulfonic acid (PFHxS)	45	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	8.7	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH
Perfluoropentanesulfonic acid (PFPeS)	4.2	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH
Perfluoroheptanoic acid (PFHpA)	24	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH
Perfluorooctanoic acid (PFOA)	25	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH
Perfluorooctanesulfonic acid (PFOS)	98	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH
Perfluorononanoic acid (PFNA)	7.0	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:50	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	136	50-200	8/10/22 13:50
M2-8:2FTS	188	50-200	8/10/22 13:50
MPFBA	86.2	50-200	8/10/22 13:50
M3HFPO-DA	70.2	50-200	8/10/22 13:50
M6PFDA	95.0	50-200	8/10/22 13:50
M3PFBS	79.8	50-200	8/10/22 13:50
M7PFUnA	93.0	50-200	8/10/22 13:50
M2-6:2FTS	196	50-200	8/10/22 13:50
M5PFPeA	117	50-200	8/10/22 13:50
M5PFHxA	86.7	50-200	8/10/22 13:50
M3PFHxS	81.8	50-200	8/10/22 13:50
M4PFHpA	83.1	50-200	8/10/22 13:50
M8PFOA	90.1	50-200	8/10/22 13:50
M8PFOS	83.7	50-200	8/10/22 13:50
M9PFNA	85.7	50-200	8/10/22 13:50
MPFDoA	80.0	50-200	8/10/22 13:50

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: SS-3A(6'')

Sampled: 7/13/2022 09:30

Sample ID: 22G0869-30

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	22	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
Perfluorobutanesulfonic acid (PFBS)	5.1	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
Perfluoropentanoic acid (PFPeA)	44	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
Perfluorohexanoic acid (PFHxA)	25	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
Perfluorohexanesulfonic acid (PFHxS)	32	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
Perfluoropetanesulfonic acid (PFPeS)	2.8	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
Perfluoroheptanoic acid (PFHpA)	14	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
Perfluorooctanoic acid (PFOA)	15	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
Perfluorooctanesulfonic acid (PFOS)	45	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH
Perfluorononanoic acid (PFNA)	2.9	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 13:57	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	101	50-200	8/10/22 13:57
M2-8:2FTS	137	50-200	8/10/22 13:57
MPFBA	99.5	50-200	8/10/22 13:57
M3HFPO-DA	84.1	50-200	8/10/22 13:57
M6PFDA	89.9	50-200	8/10/22 13:57
M3PFBS	88.0	50-200	8/10/22 13:57
M7PFUnA	58.0	50-200	8/10/22 13:57
M2-6:2FTS	143	50-200	8/10/22 13:57
M5PFPeA	112	50-200	8/10/22 13:57
M5PFHxA	98.0	50-200	8/10/22 13:57
M3PFHxS	90.3	50-200	8/10/22 13:57
M4PFHpA	95.0	50-200	8/10/22 13:57
M8PFOA	102	50-200	8/10/22 13:57
M8PFOS	90.8	50-200	8/10/22 13:57
M9PFNA	96.9	50-200	8/10/22 13:57
MPFDoA	54.4	50-200	8/10/22 13:57

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: SS-3A(SW)

Sampled: 7/13/2022 09:35

Sample ID: 22G0869-31

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	25	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
Perfluorobutanesulfonic acid (PFBS)	5.8	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
Perfluoropentanoic acid (PFPeA)	47	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
Perfluorohexanoic acid (PFHxA)	29	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
Perfluorohexanesulfonic acid (PFHxS)	37	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
Perfluoropentanesulfonic acid (PFPeS)	3.4	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
Perfluoroheptanoic acid (PFHpA)	17	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
Perfluorooctanoic acid (PFOA)	19	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
Perfluorooctanesulfonic acid (PFOS)	58	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH
Perfluorononanoic acid (PFNA)	3.6	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:04	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	98.4	50-200	8/10/22 14:04
M2-8:2FTS	141	50-200	8/10/22 14:04
MPFBA	93.3	50-200	8/10/22 14:04
M3HFPO-DA	113	50-200	8/10/22 14:04
M6PFDA	86.8	50-200	8/10/22 14:04
M3PFBS	91.0	50-200	8/10/22 14:04
M7PFUnA	67.6	50-200	8/10/22 14:04
M2-6:2FTS	126	50-200	8/10/22 14:04
M5PFPeA	119	50-200	8/10/22 14:04
M5PFHxA	102	50-200	8/10/22 14:04
M3PFHxS	85.0	50-200	8/10/22 14:04
M4PFHpA	90.6	50-200	8/10/22 14:04
M8PFOA	89.4	50-200	8/10/22 14:04
M8PFOS	81.4	50-200	8/10/22 14:04
M9PFNA	93.7	50-200	8/10/22 14:04
MPFDoA	67.5	50-200	8/10/22 14:04

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: SS-2A(6'')

Sampled: 7/13/2022 09:45

Sample ID: 22G0869-32

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	24	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH
Perfluorobutanesulfonic acid (PFBS)	4.5	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH
Perfluoropentanoic acid (PFPeA)	42	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH
Perfluorohexanoic acid (PFHxA)	24	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH
Perfluoroheptanesulfonic acid (PFHpS)	2.1	1.8		ng/L	1	V-06	EPA 533	8/8/22	8/10/22 14:11	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH
Perfluorohexanesulfonic acid (PFHxS)	29	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH
Perfluoropentanesulfonic acid (PFPeS)	2.4	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH
Perfluoroheptanoic acid (PFHpA)	15	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH
Perfluorooctanoic acid (PFOA)	17	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH
Perfluorooctanesulfonic acid (PFOS)	48	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH
Perfluorononanoic acid (PFNA)	3.6	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 14:11	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	101	50-200	8/10/22 14:11
M2-8:2FTS	123	50-200	8/10/22 14:11
MPFBA	97.5	50-200	8/10/22 14:11
M3HFPO-DA	98.8	50-200	8/10/22 14:11
M6PFDA	90.2	50-200	8/10/22 14:11
M3PFBS	92.8	50-200	8/10/22 14:11
M7PFUnA	74.1	50-200	8/10/22 14:11
M2-6:2FTS	134	50-200	8/10/22 14:11
M5PFPeA	113	50-200	8/10/22 14:11
M5PFHxA	94.0	50-200	8/10/22 14:11
M3PFHxS	89.4	50-200	8/10/22 14:11
M4PFHpA	87.2	50-200	8/10/22 14:11
M8PFOA	97.4	50-200	8/10/22 14:11
M8PFOS	95.5	50-200	8/10/22 14:11
M9PFNA	91.5	50-200	8/10/22 14:11
MPFDoA	59.6	50-200	8/10/22 14:11

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: SS-2A(SW)

Sampled: 7/13/2022 09:50

Sample ID: 22G0869-33

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	28	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
Perfluorobutanesulfonic acid (PFBS)	4.9	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
Perfluoropentanoic acid (PFPeA)	44	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
Perfluorohexanoic acid (PFHxA)	25	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
Perfluorohexanesulfonic acid (PFHxS)	30	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
Perfluoropentanesulfonic acid (PFPeS)	2.2	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
Perfluoroheptanoic acid (PFHpA)	15	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
Perfluorooctanoic acid (PFOA)	17	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
Perfluorooctanesulfonic acid (PFOS)	51	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH
Perfluorononanoic acid (PFNA)	3.7	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:16	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	117	50-200	8/6/22 19:16
M2-8:2FTS	175	50-200	8/6/22 19:16
MPFBA	112	50-200	8/6/22 19:16
M3HFPO-DA	84.3	50-200	8/6/22 19:16
M6PFDA	100	50-200	8/6/22 19:16
M3PFBS	102	50-200	8/6/22 19:16
M7PFUnA	62.1	50-200	8/6/22 19:16
M2-6:2FTS	192	50-200	8/6/22 19:16
M5PFPeA	130	50-200	8/6/22 19:16
M5PFHxA	91.0	50-200	8/6/22 19:16
M3PFHxS	120	50-200	8/6/22 19:16
M4PFHpA	92.4	50-200	8/6/22 19:16
M8PFOA	107	50-200	8/6/22 19:16
M8PFOS	102	50-200	8/6/22 19:16
M9PFNA	96.6	50-200	8/6/22 19:16
MPFDoA	65.7	50-200	8/6/22 19:16

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: SS-1A(6'')

Sampled: 7/13/2022 09:55

Sample ID: 22G0869-34

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	12	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
Perfluorobutanoic acid (PFBA)	9.4	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
Perfluorobutanesulfonic acid (PFBS)	6.0	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
Perfluorobutanesulfonic acid (PFBS)	5.9	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
Perfluoropentanoic acid (PFPeA)	26	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
Perfluoropentanoic acid (PFPeA)	26	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
Perfluorohexanoic acid (PFHxA)	17	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
Perfluorohexanoic acid (PFHxA)	17	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
Perfluorohexanesulfonic acid (PFHxS)	23	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
Perfluorohexanesulfonic acid (PFHxS)	22	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
Perfluoropentanesulfonic acid (PFPeS)	2.1	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
Perfluoropentanesulfonic acid (PFPeS)	2.3	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: SS-1A(6'')

Sampled: 7/13/2022 09:55

Sample ID: 22G0869-34

Sample Matrix: Drinking Water

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
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
Perfluoroheptanoic acid (PFHpA)	7.5	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
Perfluoroheptanoic acid (PFHpA)	7.2	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
Perfluorooctanoic acid (PFOA)	7.5	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
Perfluorooctanoic acid (PFOA)	7.9	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
Perfluorooctanesulfonic acid (PFOS)	28	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
Perfluorooctanesulfonic acid (PFOS)	27	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	8/1/22	8/6/22 19:23	BLH
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:26	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	145	50-200	
M2-4:2FTS	93.5	50-200	
M2-8:2FTS	212 *	50-200	Z-01
M2-8:2FTS	125	50-200	
MPFBA	117	50-200	
MPFBA	89.3	50-200	
M3HFPO-DA	84.6	50-200	
M3HFPO-DA	84.7	50-200	
M6PFDA	119	50-200	
M6PFDA	87.9	50-200	
M3PFBS	110	50-200	
M3PFBS	83.7	50-200	
M7PFUnA	101	50-200	
M7PFUnA	43.1 *	50-200	Z-01
M2-6:2FTS	254 *	50-200	Z-01
M2-6:2FTS	125	50-200	
M5PFPeA	145	50-200	
M5PFPeA	109	50-200	
M5PFHxA	100	50-200	
M5PFHxA	86.4	50-200	
M3PFHxS	132	50-200	
M3PFHxS	82.3	50-200	
M4PFHpA	104	50-200	
M4PFHpA	84.0	50-200	
M8PFOA	121	50-200	
M8PFOA	88.9	50-200	
M8PFOS	114	50-200	
M8PFOS	87.2	50-200	
M9PFNA	110	50-200	
M9PFNA	90.8	50-200	
MPFDoA	77.7	50-200	
MPFDoA	29.0 *	50-200	Z-01

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: SS-1A(SW)

Sampled: 7/13/2022 10:00

Sample ID: 22G0869-35

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	12	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
Perfluorobutanoic acid (PFBA)	11	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH
Perfluorobutanesulfonic acid (PFBS)	6.2	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
Perfluorobutanesulfonic acid (PFBS)	6.8	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH
Perfluoropentanoic acid (PFPeA)	32	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH
Perfluoropentanoic acid (PFPeA)	28	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
Perfluorohexanoic acid (PFHxA)	18	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
Perfluorohexanoic acid (PFHxA)	20	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	ND	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH
Perfluorohexanesulfonic acid (PFHxS)	23	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
Perfluorohexanesulfonic acid (PFHxS)	25	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.9	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH
Perfluoropentanesulfonic acid (PFPeS)	2.6	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH
Perfluoropentanesulfonic acid (PFPeS)	2.2	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: SS-1A(SW)

Sampled: 7/13/2022 10:00

Sample ID: 22G0869-35

Sample Matrix: Drinking Water

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
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH
Perfluoroheptanoic acid (PFHpA)	8.0	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
Perfluoroheptanoic acid (PFHpA)	8.7	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH
Perfluorooctanoic acid (PFOA)	9.1	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH
Perfluorooctanoic acid (PFOA)	8.3	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
Perfluorooctanesulfonic acid (PFOS)	29	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
Perfluorooctanesulfonic acid (PFOS)	32	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L	1		EPA 533	8/1/22	8/6/22 19:30	BLH
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 14:33	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	107	50-200	
M2-4:2FTS	128	50-200	
M2-8:2FTS	210 *	50-200	Z-01
M2-8:2FTS	113	50-200	
MPFBA	120	50-200	
MPFBA	87.0	50-200	
M3HFPO-DA	99.8	50-200	
M3HFPO-DA	74.1	50-200	
M6PFDA	119	50-200	
M6PFDA	73.5	50-200	
M3PFBS	109	50-200	
M3PFBS	86.8	50-200	
M7PFUnA	108	50-200	
M7PFUnA	49.1 *	50-200	Z-01
M2-6:2FTS	217 *	50-200	Z-01
M2-6:2FTS	132	50-200	
M5PFPeA	144	50-200	
M5PFPeA	117	50-200	
M5PFHxA	103	50-200	
M5PFHxA	88.9	50-200	
M3PFHxS	132	50-200	
M3PFHxS	86.3	50-200	
M4PFHpA	104	50-200	
M4PFHpA	86.0	50-200	
M8PFOA	119	50-200	
M8PFOA	84.9	50-200	
M8PFOS	118	50-200	
M8PFOS	79.1	50-200	
M9PFNA	113	50-200	
M9PFNA	78.2	50-200	
MPFDoA	31.8 *	50-200	PF-18
MPFDoA	38.3 *	50-200	PF-18

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: RP-1A(6'')

Sampled: 7/13/2022 10:10

Sample ID: 22G0869-36

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	63	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:27	BLH
Perfluorobutanesulfonic acid (PFBS)	30	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:27	BLH
Perfluoropentanoic acid (PFPeA)	150	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:27	BLH
Perfluorohexanoic acid (PFHxA)	120	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:27	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:27	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:27	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:27	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:27	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	33	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:27	BLH
Perfluorodecanoic acid (PFDA)	12	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:27	BLH
Perfluorododecanoic acid (PFDoA)	2.8	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:27	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:27	BLH
Perfluoroheptanesulfonic acid (PFHpS)	18	1.7		ng/L	1	V-06	EPA 533	8/8/22	8/10/22 16:27	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	2.2	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:27	BLH
Perfluorohexanesulfonic acid (PFHxS)	170	1.7		ng/L	1	E	EPA 533	8/8/22	8/10/22 16:27	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:27	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:27	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	120	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:27	BLH
Perfluoropentanesulfonic acid (PFPeS)	28	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:27	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:27	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:27	BLH
Perfluoroheptanoic acid (PFHpA)	57	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:27	BLH
Perfluorooctanoic acid (PFOA)	50	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:27	BLH
Perfluorooctanesulfonic acid (PFOS)	360	1.7		ng/L	1	E	EPA 533	8/8/22	8/10/22 16:27	BLH
Perfluorononanoic acid (PFNA)	14	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:27	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	125	50-200	
M2-8:2FTS	245 *	50-200	PF-18
MPFBA	78.6	50-200	
M3HFPO-DA	71.0	50-200	
M6PFDA	82.5	50-200	
M3PFBS	83.1	50-200	
M7PFUnA	62.9	50-200	
M2-6:2FTS	216 *	50-200	PF-18
M5PFPeA	102	50-200	
M5PFHxA	76.5	50-200	
M3PFHxS	82.9	50-200	
M4PFHpA	73.1	50-200	
M8PFOA	80.0	50-200	
M8PFOS	80.4	50-200	
M9PFNA	72.4	50-200	
MPFDoA	61.5	50-200	

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: RP-1A(SW)

Sampled: 7/13/2022 10:15

Sample ID: 22G0869-37

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	65	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:35	BLH
Perfluorobutanesulfonic acid (PFBS)	30	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:35	BLH
Perfluoropentanoic acid (PFPeA)	150	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:35	BLH
Perfluorohexanoic acid (PFHxA)	120	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:35	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:35	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:35	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:35	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:35	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	36	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:35	BLH
Perfluorodecanoic acid (PFDA)	13	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:35	BLH
Perfluorododecanoic acid (PFDoA)	3.3	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:35	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:35	BLH
Perfluoroheptanesulfonic acid (PFHpS)	21	1.7		ng/L	1	V-06	EPA 533	8/8/22	8/10/22 16:35	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	2.2	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:35	BLH
Perfluorohexanesulfonic acid (PFHxS)	160	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:35	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:35	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:35	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	140	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:35	BLH
Perfluoropentanesulfonic acid (PFPeS)	26	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:35	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:35	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:35	BLH
Perfluoroheptanoic acid (PFHpA)	56	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:35	BLH
Perfluorooctanoic acid (PFOA)	56	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:35	BLH
Perfluorooctanesulfonic acid (PFOS)	390	1.7		ng/L	1	E	EPA 533	8/8/22	8/10/22 16:35	BLH
Perfluorononanoic acid (PFNA)	15	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:35	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	129	50-200	8/10/22 16:35
M2-8:2FTS	172	50-200	8/10/22 16:35
MPFBA	87.2	50-200	8/10/22 16:35
M3HFPO-DA	91.4	50-200	8/10/22 16:35
M6PFDA	87.4	50-200	8/10/22 16:35
M3PFBS	81.9	50-200	8/10/22 16:35
M7PFUnA	69.8	50-200	8/10/22 16:35
M2-6:2FTS	182	50-200	8/10/22 16:35
M5PFPeA	114	50-200	8/10/22 16:35
M5PFHxA	88.3	50-200	8/10/22 16:35
M3PFHxS	88.7	50-200	8/10/22 16:35
M4PFHpA	88.0	50-200	8/10/22 16:35
M8PFOA	89.4	50-200	8/10/22 16:35
M8PFOS	71.9	50-200	8/10/22 16:35
M9PFNA	75.9	50-200	8/10/22 16:35
MPFDoA	70.9	50-200	8/10/22 16:35

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: RP-2A(6'')

Sampled: 7/13/2022 10:20

Sample ID: 22G0869-38

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	68	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 16:42	BLH
Perfluorobutanesulfonic acid (PFBS)	32	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 16:42	BLH
Perfluoropentanoic acid (PFPeA)	150	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 16:42	BLH
Perfluorohexanoic acid (PFHxA)	130	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 16:42	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 16:42	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 16:42	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 16:42	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 16:42	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	32	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 16:42	BLH
Perfluorodecanoic acid (PFDA)	10	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 16:42	BLH
Perfluorododecanoic acid (PFDoA)	2.9	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 16:42	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 16:42	BLH
Perfluoroheptanesulfonic acid (PFHpS)	22	1.8		ng/L	1	V-06	EPA 533	8/8/22	8/10/22 16:42	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	2.5	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 16:42	BLH
Perfluorohexanesulfonic acid (PFHxS)	180	1.8		ng/L	1	E	EPA 533	8/8/22	8/10/22 16:42	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 16:42	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 16:42	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	140	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 16:42	BLH
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 16:42	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 16:42	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 16:42	BLH
Perfluoroheptanoic acid (PFHpA)	62	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 16:42	BLH
Perfluorooctanoic acid (PFOA)	56	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 16:42	BLH
Perfluorooctanesulfonic acid (PFOS)	410	1.8		ng/L	1	E	EPA 533	8/8/22	8/10/22 16:42	BLH
Perfluorononanoic acid (PFNA)	14	1.8		ng/L	1		EPA 533	8/8/22	8/10/22 16:42	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	175	50-200		8/10/22 16:42
M2-8:2FTS	273 *	50-200	PF-18	8/10/22 16:42
MPFBA	114	50-200		8/10/22 16:42
M3HFPO-DA	103	50-200		8/10/22 16:42
M6PFDA	130	50-200		8/10/22 16:42
M3PFBS	114	50-200		8/10/22 16:42
M7PFUnA	128	50-200		8/10/22 16:42
M2-6:2FTS	281 *	50-200	PF-18	8/10/22 16:42
M5PFPeA	149	50-200		8/10/22 16:42
M5PFHxA	115	50-200		8/10/22 16:42
M3PFHxS	114	50-200		8/10/22 16:42
M4PFHpA	109	50-200		8/10/22 16:42
M8PFOA	120	50-200		8/10/22 16:42
M8PFOS	109	50-200		8/10/22 16:42
M9PFNA	105	50-200		8/10/22 16:42
MPFDoA	115	50-200		8/10/22 16:42

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: RP-2A(SW)

Sampled: 7/13/2022 10:25

Sample ID: 22G0869-39

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	56	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:49	BLH
Perfluorobutanesulfonic acid (PFBS)	28	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:49	BLH
Perfluoropentanoic acid (PFPeA)	130	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:49	BLH
Perfluorohexanoic acid (PFHxA)	110	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:49	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:49	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:49	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:49	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:49	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	38	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:49	BLH
Perfluorodecanoic acid (PFDA)	12	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:49	BLH
Perfluorododecanoic acid (PFDoA)	3.3	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:49	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:49	BLH
Perfluoroheptanesulfonic acid (PFHpS)	18	1.7		ng/L	1	V-06	EPA 533	8/8/22	8/10/22 16:49	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	2.1	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:49	BLH
Perfluorohexanesulfonic acid (PFHxS)	140	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:49	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:49	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:49	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	110	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:49	BLH
Perfluoropentanesulfonic acid (PFPeS)	24	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:49	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:49	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:49	BLH
Perfluoroheptanoic acid (PFHpA)	53	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:49	BLH
Perfluorooctanoic acid (PFOA)	47	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:49	BLH
Perfluorooctanesulfonic acid (PFOS)	400	1.7		ng/L	1	E	EPA 533	8/8/22	8/10/22 16:49	BLH
Perfluorononanoic acid (PFNA)	14	1.7		ng/L	1		EPA 533	8/8/22	8/10/22 16:49	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	163	50-200	
M2-8:2FTS	212 *	50-200	PF-18
MPFBA	102	50-200	
M3HFPO-DA	90.2	50-200	
M6PFDA	108	50-200	
M3PFBS	104	50-200	
M7PFUnA	93.2	50-200	
M2-6:2FTS	252 *	50-200	PF-18
M5PFPeA	134	50-200	
M5PFHxA	98.1	50-200	
M3PFHxS	108	50-200	
M4PFHpA	94.1	50-200	
M8PFOA	101	50-200	
M8PFOS	95.0	50-200	
M9PFNA	81.1	50-200	
MPFDoA	72.9	50-200	

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: RPT-1A(6'')

Sampled: 7/13/2022 10:30

Sample ID: 22G0869-40

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	44	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
Perfluorobutanesulfonic acid (PFBS)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
Perfluoropentanoic acid (PFPeA)	59	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
Perfluorohexanoic acid (PFHxA)	21	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
Perfluorohexanesulfonic acid (PFHxS)	7.7	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	3.2	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
Perfluoroheptanoic acid (PFHpA)	6.3	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
Perfluorooctanoic acid (PFOA)	3.7	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
Perfluorooctanesulfonic acid (PFOS)	17	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:06	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	109	50-200	8/6/22 20:06
M2-8:2FTS	178	50-200	8/6/22 20:06
MPFBA	100	50-200	8/6/22 20:06
M3HFPO-DA	65.3	50-200	8/6/22 20:06
M6PFDA	112	50-200	8/6/22 20:06
M3PFBS	101	50-200	8/6/22 20:06
M7PFUnA	88.2	50-200	8/6/22 20:06
M2-6:2FTS	196	50-200	8/6/22 20:06
M5PFPeA	107	50-200	8/6/22 20:06
M5PFHxA	88.8	50-200	8/6/22 20:06
M3PFHxS	121	50-200	8/6/22 20:06
M4PFHpA	89.5	50-200	8/6/22 20:06
M8PFOA	113	50-200	8/6/22 20:06
M8PFOS	111	50-200	8/6/22 20:06
M9PFNA	97.5	50-200	8/6/22 20:06
MPFDoA	87.3	50-200	8/6/22 20:06

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

Project Location: NY

Sample Description:

Work Order: 22G0869

Date Received: 7/15/2022

Field Sample #: RPT-1A(SW)

Sampled: 7/13/2022 10:35

Sample ID: 22G0869-41

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	44	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
Perfluorobutanesulfonic acid (PFBS)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
Perfluoropentanoic acid (PFPeA)	63	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
Perfluorohexanoic acid (PFHxA)	22	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.7	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
Perfluorohexanesulfonic acid (PFHxS)	8.5	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
6:2 Fluorotelomersulfonic acid (6:2FTS A)	3.1	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
Perfluoroheptanoic acid (PFHpA)	6.2	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
Perfluorooctanoic acid (PFOA)	4.5	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
Perfluorooctanesulfonic acid (PFOS)	20	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	8/1/22	8/6/22 20:13	BLH

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	108	50-200	8/6/22 20:13
M2-8:2FTS	156	50-200	8/6/22 20:13
MPFBA	92.3	50-200	8/6/22 20:13
M3HFPO-DA	71.6	50-200	8/6/22 20:13
M6PFDA	97.4	50-200	8/6/22 20:13
M3PFBS	98.0	50-200	8/6/22 20:13
M7PFUnA	90.7	50-200	8/6/22 20:13
M2-6:2FTS	175	50-200	8/6/22 20:13
M5PFPeA	99.8	50-200	8/6/22 20:13
M5PFHxA	80.1	50-200	8/6/22 20:13
M3PFHxS	109	50-200	8/6/22 20:13
M4PFHpA	84.1	50-200	8/6/22 20:13
M8PFOA	95.6	50-200	8/6/22 20:13
M8PFOS	104	50-200	8/6/22 20:13
M9PFNA	92.1	50-200	8/6/22 20:13
MPFDoA	82.1	50-200	8/6/22 20:13

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B313072 - EPA 533
Blank (B313072-BLK1)

Prepared: 07/28/22 Analyzed: 07/29/22

Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L							
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L							
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L							
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	1.8		ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L							
Surrogate: M2-4:2FTS	27.9			ng/L	34.0		82.1	50-200			
Surrogate: M2-8:2FTS	38.3			ng/L	34.8		110	50-200			
Surrogate: MPFBA	31.5			ng/L	36.2		87.0	50-200			
Surrogate: M3HFPO-DA	37.2			ng/L	36.2		103	50-200			
Surrogate: M6PFDA	31.9			ng/L	36.2		87.9	50-200			
Surrogate: M3PFBS	30.1			ng/L	33.8		89.1	50-200			
Surrogate: M7PFUnA	31.1			ng/L	36.2		85.8	50-200			
Surrogate: M2-6:2FTS	32.0			ng/L	34.5		92.9	50-200			
Surrogate: M5PFPeA	31.5			ng/L	36.2		86.9	50-200			
Surrogate: M5PFHxA	31.2			ng/L	36.2		86.0	50-200			
Surrogate: M3PFHxS	29.7			ng/L	34.4		86.6	50-200			
Surrogate: M4PFHpA	31.6			ng/L	36.2		87.2	50-200			
Surrogate: M8PFOA	30.8			ng/L	36.2		84.9	50-200			
Surrogate: M8PFOS	29.6			ng/L	34.8		85.2	50-200			
Surrogate: M9PFNA	32.4			ng/L	36.2		89.3	50-200			
Surrogate: MPFDoA	27.7			ng/L	36.2		76.4	50-200			

LCS (B313072-BS1)

Prepared: 07/28/22 Analyzed: 07/29/22

Perfluorobutanoic acid (PFBA)	21.8	1.8		ng/L	18.4		118	70-130			
Perfluorobutanesulfonic acid (PFBS)	19.4	1.8		ng/L	16.3		119	70-130			
Perfluoropentanoic acid (PFPeA)	21.7	1.8		ng/L	18.4		118	70-130			
Perfluorohexanoic acid (PFHxA)	21.8	1.8		ng/L	18.4		118	70-130			
11Cl-PF3OUdS (F53B Major)	18.2	1.8		ng/L	17.4		105	70-130			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B313072 - EPA 533
LCS (B313072-BS1)

Prepared: 07/28/22 Analyzed: 07/29/22

9Cl-PF3ONS (F53B Minor)	18.3	1.8		ng/L	17.2		107	70-130			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	20.2	1.8		ng/L	17.4		116	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	20.5	1.8		ng/L	18.4		111	70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	22.8	1.8		ng/L	17.7		129	70-130			
Perfluorodecanoic acid (PFDA)	22.6	1.8		ng/L	18.4		123	70-130			
Perfluorododecanoic acid (PFDoA)	23.4	1.8		ng/L	18.4		127	70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	18.3	1.8		ng/L	16.4		112	70-130			
Perfluoroheptanesulfonic acid (PFHpS)	20.4	1.8		ng/L	17.6		116	70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	19.7	1.8		ng/L	17.2		115	70-130			
Perfluorohexanesulfonic acid (PFHxS)	18.2	1.8		ng/L	16.9		108	70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	19.0	1.8		ng/L	18.4		103	70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	20.7	1.8		ng/L	18.4		112	70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	20.7	1.8		ng/L	17.5		118	70-130			
Perfluoropentanesulfonic acid (PFPeS)	20.0	1.8		ng/L	17.3		115	70-130			
Perfluoroundecanoic acid (PFUnA)	21.2	1.8		ng/L	18.4		115	70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	19.7	1.8		ng/L	18.4		107	70-130			
Perfluoroheptanoic acid (PFHpA)	21.8	1.8		ng/L	18.4		118	70-130			
Perfluorooctanoic acid (PFOA)	21.3	1.8		ng/L	18.4		116	70-130			
Perfluorooctanesulfonic acid (PFOS)	19.5	1.8		ng/L	17.0		114	70-130			
Perfluorononanoic acid (PFNA)	19.8	1.8		ng/L	18.4		107	70-130			
Surrogate: M2-4:2FTS	21.5			ng/L	34.6		62.3	50-200			
Surrogate: M2-8:2FTS	32.8			ng/L	35.4		92.6	50-200			
Surrogate: MPFBA	31.5			ng/L	36.9		85.4	50-200			
Surrogate: M3HFPO-DA	33.6			ng/L	36.9		91.3	50-200			
Surrogate: M6PFDA	31.5			ng/L	36.9		85.6	50-200			
Surrogate: M3PFBS	28.8			ng/L	34.4		83.9	50-200			
Surrogate: M7PFUnA	30.6			ng/L	36.9		83.0	50-200			
Surrogate: M2-6:2FTS	25.7			ng/L	35.1		73.4	50-200			
Surrogate: M5PFPeA	31.5			ng/L	36.9		85.4	50-200			
Surrogate: M5PFHxA	32.1			ng/L	36.9		87.1	50-200			
Surrogate: M3PFHxS	29.7			ng/L	34.9		84.9	50-200			
Surrogate: M4PFHpA	32.0			ng/L	36.9		86.9	50-200			
Surrogate: M8PFOA	31.8			ng/L	36.9		86.2	50-200			
Surrogate: M8PFOS	29.5			ng/L	35.3		83.5	50-200			
Surrogate: M9PFNA	32.5			ng/L	36.9		88.2	50-200			
Surrogate: MPFDoA	28.4			ng/L	36.9		77.1	50-200			

LCS Dup (B313072-BS1)

Prepared: 07/28/22 Analyzed: 07/29/22

Perfluorobutanoic acid (PFBA)	21.9	1.8		ng/L	18.3		120	70-130	0.352	30	
Perfluorobutanesulfonic acid (PFBS)	19.1	1.8		ng/L	16.2		118	70-130	1.61	30	
Perfluoropentanoic acid (PFPeA)	21.7	1.8		ng/L	18.3		119	70-130	0.101	30	
Perfluorohexanoic acid (PFHxA)	21.5	1.8		ng/L	18.3		117	70-130	1.64	30	
11Cl-PF3OUdS (F53B Major)	17.1	1.8		ng/L	17.2		99.4	70-130	6.11	30	
9Cl-PF3ONS (F53B Minor)	16.9	1.8		ng/L	17.1		99.0	70-130	8.02	30	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	20.2	1.8		ng/L	17.2		117	70-130	0.0318	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	18.3	1.8		ng/L	18.3		99.8	70-130	11.4	30	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	20.7	1.8		ng/L	17.6		118	70-130	9.39	30	

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B313072 - EPA 533
LCS Dup (B313072-BSD1)

Prepared: 07/28/22 Analyzed: 07/29/22

Perfluorodecanoic acid (PFDA)	20.2	1.8		ng/L	18.3		110	70-130	11.5	30	
Perfluorododecanoic acid (PFDoA)	22.6	1.8		ng/L	18.3		123	70-130	3.88	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	17.9	1.8		ng/L	16.3		110	70-130	2.25	30	
Perfluoroheptanesulfonic acid (PFHpS)	19.3	1.8		ng/L	17.5		110	70-130	5.30	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	19.6	1.8		ng/L	17.1		114	70-130	0.959	30	
Perfluorohexanesulfonic acid (PFHxS)	19.6	1.8		ng/L	16.8		117	70-130	7.78	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	18.8	1.8		ng/L	18.3		103	70-130	1.19	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	20.1	1.8		ng/L	18.3		110	70-130	2.78	30	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	19.2	1.8		ng/L	17.4		110	70-130	7.55	30	
Perfluoropentanesulfonic acid (PFPeS)	20.7	1.8		ng/L	17.2		120	70-130	3.32	30	
Perfluoroundecanoic acid (PFUnA)	22.0	1.8		ng/L	18.3		120	70-130	3.55	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	19.6	1.8		ng/L	18.3		107	70-130	0.153	30	
Perfluoroheptanoic acid (PFHpA)	22.2	1.8		ng/L	18.3		121	70-130	1.89	30	
Perfluorooctanoic acid (PFOA)	22.1	1.8		ng/L	18.3		121	70-130	3.79	30	
Perfluorooctanesulfonic acid (PFOS)	19.5	1.8		ng/L	16.9		115	70-130	0.135	30	
Perfluorononanoic acid (PFNA)	20.5	1.8		ng/L	18.3		112	70-130	3.76	30	
Surrogate: M2-4:2FTS	29.0			ng/L	34.4		84.3	50-200			
Surrogate: M2-8:2FTS	41.9			ng/L	35.2		119	50-200			
Surrogate: MPFBA	31.1			ng/L	36.6		85.0	50-200			
Surrogate: M3HFPO-DA	32.6			ng/L	36.6		89.0	50-200			
Surrogate: M6PFDA	31.4			ng/L	36.6		85.7	50-200			
Surrogate: M3PFBS	31.1			ng/L	34.1		91.1	50-200			
Surrogate: M7PFUnA	29.6			ng/L	36.6		80.9	50-200			
Surrogate: M2-6:2FTS	31.0			ng/L	34.8		89.0	50-200			
Surrogate: M5PFPeA	31.3			ng/L	36.6		85.6	50-200			
Surrogate: M5PFHxA	29.9			ng/L	36.6		81.7	50-200			
Surrogate: M3PFHxS	31.2			ng/L	34.7		89.8	50-200			
Surrogate: M4PFHpA	29.5			ng/L	36.6		80.5	50-200			
Surrogate: M8PFOA	29.7			ng/L	36.6		81.2	50-200			
Surrogate: M8PFOS	31.5			ng/L	35.1		89.6	50-200			
Surrogate: M9PFNA	29.5			ng/L	36.6		80.7	50-200			
Surrogate: MPFDoA	27.8			ng/L	36.6		76.0	50-200			

Batch B313855 - EPA 533
Blank (B313855-BLK1)

Prepared: 08/01/22 Analyzed: 08/06/22

Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L							
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L							
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L							
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L							

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B313855 - EPA 533
Blank (B313855-BLK1)

Prepared: 08/01/22 Analyzed: 08/06/22

Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L							
Surrogate: M2-4:2FTS	34.0			ng/L	33.1		103	50-200			
Surrogate: M2-8:2FTS	39.9			ng/L	33.9		118	50-200			
Surrogate: MPFBA	39.1			ng/L	35.3		111	50-200			
Surrogate: M3HFPO-DA	33.1			ng/L	35.3		93.9	50-200			
Surrogate: M6PFDA	38.2			ng/L	35.3		108	50-200			
Surrogate: M3PFBS	36.7			ng/L	32.9		112	50-200			
Surrogate: M7PFUnA	34.7			ng/L	35.3		98.2	50-200			
Surrogate: M2-6:2FTS	40.4			ng/L	33.6		120	50-200			
Surrogate: M5PFPeA	38.5			ng/L	35.3		109	50-200			
Surrogate: M5PFHxA	32.7			ng/L	35.3		92.8	50-200			
Surrogate: M3PFHxS	42.6			ng/L	33.5		127	50-200			
Surrogate: M4PFHpA	34.4			ng/L	35.3		97.6	50-200			
Surrogate: M8PFOA	37.2			ng/L	35.3		106	50-200			
Surrogate: M8PFOS	41.0			ng/L	33.8		121	50-200			
Surrogate: M9PFNA	36.9			ng/L	35.3		105	50-200			
Surrogate: MPFDoA	37.8			ng/L	35.3		107	50-200			

LCS (B313855-BS1)

Prepared: 08/01/22 Analyzed: 08/06/22

Perfluorobutanoic acid (PFBA)	10.1	1.8		ng/L	8.91		114	70-130			
Perfluorobutanesulfonic acid (PFBS)	8.89	1.8		ng/L	7.89		113	70-130			
Perfluoropentanoic acid (PFPeA)	9.82	1.8		ng/L	8.91		110	70-130			
Perfluorohexanoic acid (PFHxA)	9.94	1.8		ng/L	8.91		111	70-130			
11Cl-PF3OUdS (F53B Major)	9.30	1.8		ng/L	8.40		111	70-130			
9Cl-PF3ONS (F53B Minor)	9.34	1.8		ng/L	8.31		112	70-130			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	7.87	1.8		ng/L	8.40		93.7	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.71	1.8		ng/L	8.91		97.7	70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	9.36	1.8		ng/L	8.56		109	70-130			
Perfluorodecanoic acid (PFDA)	10.1	1.8		ng/L	8.91		114	70-130			
Perfluorododecanoic acid (PFDoA)	10.2	1.8		ng/L	8.91		115	70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	8.14	1.8		ng/L	7.93		103	70-130			
Perfluoroheptanesulfonic acid (PFHpS)	11.8	1.8		ng/L	8.51		139	* 70-130			L-07
4:2 Fluorotelomersulfonic acid (4:2FTS A)	8.81	1.8		ng/L	8.33		106	70-130			
Perfluorohexanesulfonic acid (PFHxS)	8.89	1.8		ng/L	8.16		109	70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	8.22	1.8		ng/L	8.91		92.2	70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	8.91	1.8		ng/L	8.91		99.9	70-130			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B313855 - EPA 533
LCS (B313855-BS1)

Prepared: 08/01/22 Analyzed: 08/06/22

6:2 Fluorotelomersulfonic acid (6:2FTS A)	9.36	1.8		ng/L	8.47		111	70-130			
Perfluoropentanesulfonic acid (PFPeS)	8.22	1.8		ng/L	8.38		98.1	70-130			
Perfluoroundecanoic acid (PFUnA)	10.2	1.8		ng/L	8.91		114	70-130			
Nonfluoro-3,6-dioxahexanoic acid (NFDHA)	8.96	1.8		ng/L	8.91		101	70-130			
Perfluoroheptanoic acid (PFHpA)	10.7	1.8		ng/L	8.91		120	70-130			
Perfluorooctanoic acid (PFOA)	9.96	1.8		ng/L	8.91		112	70-130			
Perfluorooctanesulfonic acid (PFOS)	9.30	1.8		ng/L	8.25		113	70-130			
Perfluorononanoic acid (PFNA)	9.32	1.8		ng/L	8.91		105	70-130			
Surrogate: M2-4:2FTS	25.6			ng/L	33.4		76.6	50-200			
Surrogate: M2-8:2FTS	31.7			ng/L	34.2		92.6	50-200			
Surrogate: MPFBA	33.5			ng/L	35.7		94.0	50-200			
Surrogate: M3HFPO-DA	31.3			ng/L	35.7		87.7	50-200			
Surrogate: M6PFDA	34.4			ng/L	35.7		96.4	50-200			
Surrogate: M3PFBS	28.6			ng/L	33.2		86.0	50-200			
Surrogate: M7PFUnA	33.8			ng/L	35.7		94.9	50-200			
Surrogate: M2-6:2FTS	31.4			ng/L	33.9		92.7	50-200			
Surrogate: M5PFPeA	33.2			ng/L	35.7		93.0	50-200			
Surrogate: M5PFHxA	29.9			ng/L	35.7		83.9	50-200			
Surrogate: M3PFHxS	33.3			ng/L	33.8		98.6	50-200			
Surrogate: M4PFHpA	30.4			ng/L	35.7		85.3	50-200			
Surrogate: M8PFOA	34.3			ng/L	35.7		96.3	50-200			
Surrogate: M8PFOS	29.8			ng/L	34.2		87.2	50-200			
Surrogate: M9PFNA	33.0			ng/L	35.7		92.5	50-200			
Surrogate: MPFDoA	32.0			ng/L	35.7		89.9	50-200			

LCS Dup (B313855-BSD1)

Prepared: 08/01/22 Analyzed: 08/06/22

Perfluorobutanoic acid (PFBA)	9.43	1.8		ng/L	8.80		107	70-130	7.15	30	
Perfluorobutanesulfonic acid (PFBS)	8.31	1.8		ng/L	7.79		107	70-130	6.74	30	
Perfluoropentanoic acid (PFPeA)	9.40	1.8		ng/L	8.80		107	70-130	4.28	30	
Perfluorohexanoic acid (PFHxA)	9.32	1.8		ng/L	8.80		106	70-130	6.41	30	
11Cl-PF3OUdS (F53B Major)	7.54	1.8		ng/L	8.29		90.9	70-130	21.0	30	
9Cl-PF3ONS (F53B Minor)	7.84	1.8		ng/L	8.20		95.6	70-130	17.4	30	
4,8-dioxo-3H-perfluorononanoic acid (ADONA)	7.36	1.8		ng/L	8.29		88.7	70-130	6.73	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	9.38	1.8		ng/L	8.80		107	70-130	7.42	30	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	9.38	1.8		ng/L	8.45		111	70-130	0.231	30	
Perfluorodecanoic acid (PFDA)	9.31	1.8		ng/L	8.80		106	70-130	8.33	30	
Perfluorododecanoic acid (PFDoA)	9.74	1.8		ng/L	8.80		111	70-130	4.91	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	7.66	1.8		ng/L	7.83		97.8	70-130	6.13	30	
Perfluoroheptanesulfonic acid (PFHpS)	9.47	1.8		ng/L	8.40		113	70-130	21.9	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	8.32	1.8		ng/L	8.23		101	70-130	5.76	30	
Perfluorohexanesulfonic acid (PFHxS)	8.54	1.8		ng/L	8.05		106	70-130	4.09	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	7.80	1.8		ng/L	8.80		88.7	70-130	5.19	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	8.33	1.8		ng/L	8.80		94.6	70-130	6.76	30	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	9.70	1.8		ng/L	8.36		116	70-130	3.54	30	
Perfluoropentanesulfonic acid (PFPeS)	7.36	1.8		ng/L	8.27		89.0	70-130	11.0	30	
Perfluoroundecanoic acid (PFUnA)	9.31	1.8		ng/L	8.80		106	70-130	8.75	30	
Nonfluoro-3,6-dioxahexanoic acid (NFDHA)	8.43	1.8		ng/L	8.80		95.8	70-130	6.09	30	
Perfluoroheptanoic acid (PFHpA)	9.86	1.8		ng/L	8.80		112	70-130	8.49	30	

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B313855 - EPA 533
LCS Dup (B313855-BSD1)

Prepared: 08/01/22 Analyzed: 08/06/22

Perfluorooctanoic acid (PFOA)	10.3	1.8		ng/L	8.80		117	70-130	3.12	30	
Perfluorooctanesulfonic acid (PFOS)	8.18	1.8		ng/L	8.14		100	70-130	12.9	30	
Perfluorononanoic acid (PFNA)	9.00	1.8		ng/L	8.80		102	70-130	3.49	30	
Surrogate: M2-4:2FTS	30.2			ng/L	33.0		91.4	50-200			
Surrogate: M2-8:2FTS	34.1			ng/L	33.8		101	50-200			
Surrogate: MPFBA	36.3			ng/L	35.2		103	50-200			
Surrogate: M3HFPO-DA	29.1			ng/L	35.2		82.8	50-200			
Surrogate: M6PFDA	34.6			ng/L	35.2		98.3	50-200			
Surrogate: M3PFBS	33.1			ng/L	32.8		101	50-200			
Surrogate: M7PFUnA	33.7			ng/L	35.2		95.6	50-200			
Surrogate: M2-6:2FTS	34.9			ng/L	33.5		104	50-200			
Surrogate: M5PFPeA	35.2			ng/L	35.2		100	50-200			
Surrogate: M5PFHxA	32.1			ng/L	35.2		91.1	50-200			
Surrogate: M3PFHxS	39.3			ng/L	33.4		118	50-200			
Surrogate: M4PFHpA	34.0			ng/L	35.2		96.5	50-200			
Surrogate: M8PFOA	34.7			ng/L	35.2		98.4	50-200			
Surrogate: M8PFOS	37.2			ng/L	33.8		110	50-200			
Surrogate: M9PFNA	34.6			ng/L	35.2		98.4	50-200			
Surrogate: MPFDoA	34.2			ng/L	35.2		97.1	50-200			

Batch B313856 - EPA 533
Blank (B313856-BLK1)

Prepared: 08/03/22 Analyzed: 08/06/22

Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L							
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L							
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L							
4,8-dioxo-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	ND	1.8		ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.5	1.8		ng/L							B
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L							
Nonafluoro-3,6-dioxahexanoic acid (NFDHA)	ND	1.8		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L							

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B313856 - EPA 533
Blank (B313856-BLK1)

Prepared: 08/03/22 Analyzed: 08/06/22

Surrogate: M2-4:2FTS	24.8			ng/L	33.4		74.3	50-200			
Surrogate: M2-8:2FTS	33.3			ng/L	34.2		97.3	50-200			
Surrogate: MPFBA	33.4			ng/L	35.7		93.6	50-200			
Surrogate: M3HFPO-DA	35.5			ng/L	35.7		99.5	50-200			
Surrogate: M6PFDA	31.7			ng/L	35.7		88.9	50-200			
Surrogate: M3PFBS	24.8			ng/L	33.2		74.5	50-200			
Surrogate: M7PFUnA	28.6			ng/L	35.7		80.1	50-200			
Surrogate: M2-6:2FTS	33.7			ng/L	33.9		99.5	50-200			
Surrogate: M5PFPeA	31.1			ng/L	35.7		87.3	50-200			
Surrogate: M5PFHxA	25.8			ng/L	35.7		72.3	50-200			
Surrogate: M3PFHxS	32.0			ng/L	33.8		94.6	50-200			
Surrogate: M4PFHpA	26.3			ng/L	35.7		73.7	50-200			
Surrogate: M8PFOA	34.4			ng/L	35.7		96.5	50-200			
Surrogate: M8PFOS	28.3			ng/L	34.2		82.8	50-200			
Surrogate: M9PFNA	30.4			ng/L	35.7		85.2	50-200			
Surrogate: MPFDoA	28.8			ng/L	35.7		80.7	50-200			

LCS (B313856-BS1)

Prepared: 08/03/22 Analyzed: 08/06/22

Perfluorobutanoic acid (PFBA)	17.6	1.7		ng/L	17.5		101	70-130			
Perfluorobutanesulfonic acid (PFBS)	15.9	1.7		ng/L	15.5		103	70-130			
Perfluoropentanoic acid (PFPeA)	17.9	1.7		ng/L	17.5		102	70-130			
Perfluorohexanoic acid (PFHxA)	18.1	1.7		ng/L	17.5		104	70-130			
11Cl-PF3OUdS (F53B Major)	15.3	1.7		ng/L	16.5		92.8	70-130			
9Cl-PF3ONS (F53B Minor)	16.0	1.7		ng/L	16.3		98.3	70-130			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	15.2	1.7		ng/L	16.5		92.3	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	18.0	1.7		ng/L	17.5		103	70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	17.4	1.7		ng/L	16.8		104	70-130			
Perfluorodecanoic acid (PFDA)	17.2	1.7		ng/L	17.5		98.5	70-130			
Perfluorododecanoic acid (PFDoA)	18.5	1.7		ng/L	17.5		106	70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	14.3	1.7		ng/L	15.6		91.9	70-130			
Perfluoroheptanesulfonic acid (PFHpS)	20.0	1.7		ng/L	16.7		120	70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	16.2	1.7		ng/L	16.3		99.3	70-130			
Perfluorohexanesulfonic acid (PFHxS)	16.7	1.7		ng/L	16.0		104	70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	14.6	1.7		ng/L	17.5		83.6	70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	15.4	1.7		ng/L	17.5		88.2	70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	20.7	1.7		ng/L	16.6		125	70-130			B
Perfluoropentanesulfonic acid (PFPeS)	14.2	1.7		ng/L	16.4		86.2	70-130			
Perfluoroundecanoic acid (PFUnA)	18.0	1.7		ng/L	17.5		103	70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	17.7	1.7		ng/L	17.5		101	70-130			
Perfluoroheptanoic acid (PFHpA)	18.4	1.7		ng/L	17.5		105	70-130			
Perfluorooctanoic acid (PFOA)	17.1	1.7		ng/L	17.5		97.9	70-130			
Perfluorooctanesulfonic acid (PFOS)	18.0	1.7		ng/L	16.2		111	70-130			
Perfluorononanoic acid (PFNA)	18.9	1.7		ng/L	17.5		108	70-130			
Surrogate: M2-4:2FTS	28.9			ng/L	32.8		88.1	50-200			
Surrogate: M2-8:2FTS	35.2			ng/L	33.6		105	50-200			
Surrogate: MPFBA	37.3			ng/L	34.9		107	50-200			
Surrogate: M3HFPO-DA	31.8			ng/L	34.9		90.9	50-200			
Surrogate: M6PFDA	36.2			ng/L	34.9		104	50-200			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B313856 - EPA 533
LCS (B313856-BS1)

Prepared: 08/03/22 Analyzed: 08/06/22

Surrogate: M3PFBS	28.9			ng/L	32.6		88.9	50-200			
Surrogate: M7PFUnA	32.2			ng/L	34.9		92.2	50-200			
Surrogate: M2-6:2FTS	33.5			ng/L	33.2		101	50-200			
Surrogate: M5PFPeA	34.7			ng/L	34.9		99.4	50-200			
Surrogate: M5PFHxA	29.7			ng/L	34.9		84.9	50-200			
Surrogate: M3PFHxS	34.7			ng/L	33.1		105	50-200			
Surrogate: M4PFHpA	31.1			ng/L	34.9		89.1	50-200			
Surrogate: M8PFOA	38.6			ng/L	34.9		111	50-200			
Surrogate: M8PFOS	32.4			ng/L	33.5		96.5	50-200			
Surrogate: M9PFNA	33.8			ng/L	34.9		96.7	50-200			
Surrogate: MPFDoA	32.9			ng/L	34.9		94.3	50-200			

Batch B314147 - EPA 533
Blank (B314147-BLK1)

Prepared: 08/03/22 Analyzed: 08/06/22

Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L							
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L							
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L							
4,8-dioxo-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L							
Surrogate: M2-4:2FTS	41.4			ng/L	34.5		120	50-200			
Surrogate: M2-8:2FTS	42.9			ng/L	35.3		121	50-200			
Surrogate: MPFBA	47.2			ng/L	36.8		128	50-200			
Surrogate: M3HFPO-DA	43.1			ng/L	36.8		117	50-200			
Surrogate: M6PFDA	45.3			ng/L	36.8		123	50-200			
Surrogate: M3PFBS	43.5			ng/L	34.3		127	50-200			
Surrogate: M7PFUnA	44.7			ng/L	36.8		121	50-200			
Surrogate: M2-6:2FTS	50.6			ng/L	35.0		144	50-200			
Surrogate: M5PFPeA	46.7			ng/L	36.8		127	50-200			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B314147 - EPA 533
Blank (B314147-BLK1)

Prepared: 08/03/22 Analyzed: 08/06/22

Surrogate: M5PFHxA	41.7			ng/L	36.8		113	50-200			
Surrogate: M3PFHxS	45.6			ng/L	34.9		131	50-200			
Surrogate: M4PFHpA	44.6			ng/L	36.8		121	50-200			
Surrogate: M8PFOA	48.8			ng/L	36.8		133	50-200			
Surrogate: M8PFOS	45.4			ng/L	35.3		129	50-200			
Surrogate: M9PFNA	45.3			ng/L	36.8		123	50-200			
Surrogate: MPFDoA	46.4			ng/L	36.8		126	50-200			

LCS (B314147-BS1)

Prepared: 08/03/22 Analyzed: 08/06/22

Perfluorobutanoic acid (PFBA)	9.22	1.9		ng/L	9.28		99.3	70-130			
Perfluorobutanesulfonic acid (PFBS)	8.31	1.9		ng/L	8.21		101	70-130			
Perfluoropentanoic acid (PFPeA)	9.38	1.9		ng/L	9.28		101	70-130			
Perfluorohexanoic acid (PFHxA)	9.40	1.9		ng/L	9.28		101	70-130			
11Cl-PF3OUdS (F53B Major)	8.63	1.9		ng/L	8.74		98.8	70-130			
9Cl-PF3ONS (F53B Minor)	8.13	1.9		ng/L	8.65		93.9	70-130			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	8.21	1.9		ng/L	8.74		93.9	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	8.97	1.9		ng/L	9.28		96.6	70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	7.96	1.9		ng/L	8.91		89.4	70-130			
Perfluorodecanoic acid (PFDA)	9.21	1.9		ng/L	9.28		99.2	70-130			
Perfluorododecanoic acid (PFDoA)	10.3	1.9		ng/L	9.28		111	70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	7.38	1.9		ng/L	8.26		89.4	70-130			
Perfluoroheptanesulfonic acid (PFHpS)	8.96	1.9		ng/L	8.86		101	70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	8.81	1.9		ng/L	8.68		101	70-130			
Perfluorohexanesulfonic acid (PFHxS)	8.37	1.9		ng/L	8.49		98.6	70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	7.61	1.9		ng/L	9.28		82.0	70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	8.24	1.9		ng/L	9.28		88.8	70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	10.0	1.9		ng/L	8.82		114	70-130			
Perfluoropentanesulfonic acid (PFPeS)	8.61	1.9		ng/L	8.72		98.6	70-130			
Perfluoroundecanoic acid (PFUnA)	10.7	1.9		ng/L	9.28		115	70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.36	1.9		ng/L	9.28		90.1	70-130			
Perfluoroheptanoic acid (PFHpA)	9.72	1.9		ng/L	9.28		105	70-130			
Perfluorooctanoic acid (PFOA)	10.2	1.9		ng/L	9.28		110	70-130			
Perfluorooctanesulfonic acid (PFOS)	8.55	1.9		ng/L	8.58		99.6	70-130			
Perfluorononanoic acid (PFNA)	9.69	1.9		ng/L	9.28		104	70-130			
Surrogate: M2-4:2FTS	38.3			ng/L	34.8		110	50-200			
Surrogate: M2-8:2FTS	45.8			ng/L	35.6		129	50-200			
Surrogate: MPFBA	40.8			ng/L	37.1		110	50-200			
Surrogate: M3HFPO-DA	33.1			ng/L	37.1		89.2	50-200			
Surrogate: M6PFDA	41.0			ng/L	37.1		110	50-200			
Surrogate: M3PFBS	39.3			ng/L	34.6		114	50-200			
Surrogate: M7PFUnA	40.0			ng/L	37.1		108	50-200			
Surrogate: M2-6:2FTS	41.3			ng/L	35.3		117	50-200			
Surrogate: M5PFPeA	40.6			ng/L	37.1		109	50-200			
Surrogate: M5PFHxA	38.3			ng/L	37.1		103	50-200			
Surrogate: M3PFHxS	39.8			ng/L	35.2		113	50-200			
Surrogate: M4PFHpA	38.9			ng/L	37.1		105	50-200			
Surrogate: M8PFOA	41.4			ng/L	37.1		111	50-200			
Surrogate: M8PFOS	43.4			ng/L	35.6		122	50-200			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B314147 - EPA 533
LCS (B314147-BS1)

Prepared: 08/03/22 Analyzed: 08/06/22

Surrogate: M9PFNA	41.2			ng/L	37.1		111	50-200			
Surrogate: MPFDoA	39.2			ng/L	37.1		106	50-200			

Batch B314648 - EPA 533
Blank (B314648-BLK1)

Prepared: 08/08/22 Analyzed: 08/10/22

Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L							
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L							
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L							
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L							
Perfluoropetanesulfonic acid (PFPeS)	ND	1.8		ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L							
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L							
Surrogate: M2-4:2FTS	28.3			ng/L	34.3		82.3	50-200			
Surrogate: M2-8:2FTS	36.3			ng/L	35.1		103	50-200			
Surrogate: MPFBA	34.1			ng/L	36.6		93.0	50-200			
Surrogate: M3HFPO-DA	41.0			ng/L	36.6		112	50-200			
Surrogate: M6PFDA	39.2			ng/L	36.6		107	50-200			
Surrogate: M3PFBS	30.1			ng/L	34.1		88.1	50-200			
Surrogate: M7PFUnA	39.9			ng/L	36.6		109	50-200			
Surrogate: M2-6:2FTS	33.0			ng/L	34.8		94.8	50-200			
Surrogate: M5PFPeA	33.7			ng/L	36.6		92.0	50-200			
Surrogate: M5PFHxA	34.7			ng/L	36.6		94.8	50-200			
Surrogate: M3PFHxS	31.8			ng/L	34.7		91.6	50-200			
Surrogate: M4PFHpA	34.1			ng/L	36.6		93.2	50-200			
Surrogate: M8PFOA	36.5			ng/L	36.6		99.8	50-200			
Surrogate: M8PFOS	35.0			ng/L	35.1		99.8	50-200			
Surrogate: M9PFNA	39.8			ng/L	36.6		109	50-200			
Surrogate: MPFDoA	38.3			ng/L	36.6		105	50-200			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B314648 - EPA 533
LCS (B314648-BS1)

Prepared: 08/08/22 Analyzed: 08/10/22

Perfluorobutanoic acid (PFBA)	11.1	1.9		ng/L	9.30		119	70-130			
Perfluorobutanesulfonic acid (PFBS)	9.19	1.9		ng/L	8.23		112	70-130			
Perfluoropentanoic acid (PFPeA)	10.5	1.9		ng/L	9.30		113	70-130			
Perfluorohexanoic acid (PFHxA)	10.7	1.9		ng/L	9.30		115	70-130			
11Cl-PF3OUdS (F53B Major)	9.39	1.9		ng/L	8.76		107	70-130			
9Cl-PF3ONS (F53B Minor)	9.94	1.9		ng/L	8.67		115	70-130			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	8.63	1.9		ng/L	8.76		98.5	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	10.7	1.9		ng/L	9.30		115	70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	10.5	1.9		ng/L	8.93		118	70-130			
Perfluorodecanoic acid (PFDA)	10.2	1.9		ng/L	9.30		110	70-130			
Perfluorododecanoic acid (PFDoA)	10.7	1.9		ng/L	9.30		116	70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	7.76	1.9		ng/L	8.28		93.8	70-130			
Perfluoroheptanesulfonic acid (PFHpS)	11.0	1.9		ng/L	8.88		123	70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	9.25	1.9		ng/L	8.69		106	70-130			
Perfluorohexanesulfonic acid (PFHxS)	9.31	1.9		ng/L	8.51		109	70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	8.66	1.9		ng/L	9.30		93.2	70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	8.95	1.9		ng/L	9.30		96.3	70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	9.06	1.9		ng/L	8.83		103	70-130			
Perfluoropentanesulfonic acid (PFPeS)	8.80	1.9		ng/L	8.74		101	70-130			
Perfluoroundecanoic acid (PFUnA)	9.89	1.9		ng/L	9.30		106	70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	10.1	1.9		ng/L	9.30		109	70-130			
Perfluoroheptanoic acid (PFHpA)	11.2	1.9		ng/L	9.30		121	70-130			
Perfluorooctanoic acid (PFOA)	10.2	1.9		ng/L	9.30		110	70-130			
Perfluorooctanesulfonic acid (PFOS)	11.0	1.9		ng/L	8.60		128	70-130			
Perfluorononanoic acid (PFNA)	11.3	1.9		ng/L	9.30		122	70-130			
Surrogate: M2-4:2FTS	27.6			ng/L	34.9		79.2	50-200			
Surrogate: M2-8:2FTS	32.6			ng/L	35.7		91.2	50-200			
Surrogate: MPFBA	36.0			ng/L	37.2		96.7	50-200			
Surrogate: M3HFPO-DA	35.2			ng/L	37.2		94.8	50-200			
Surrogate: M6PFDA	42.5			ng/L	37.2		114	50-200			
Surrogate: M3PFBS	29.3			ng/L	34.7		84.6	50-200			
Surrogate: M7PFUnA	37.1			ng/L	37.2		99.9	50-200			
Surrogate: M2-6:2FTS	29.1			ng/L	35.4		82.4	50-200			
Surrogate: M5PFPeA	35.6			ng/L	37.2		95.8	50-200			
Surrogate: M5PFHxA	35.3			ng/L	37.2		94.9	50-200			
Surrogate: M3PFHxS	29.8			ng/L	35.3		84.5	50-200			
Surrogate: M4PFHpA	35.0			ng/L	37.2		94.0	50-200			
Surrogate: M8PFOA	36.6			ng/L	37.2		98.5	50-200			
Surrogate: M8PFOS	31.3			ng/L	35.7		87.8	50-200			
Surrogate: M9PFNA	41.3			ng/L	37.2		111	50-200			
Surrogate: MPFDoA	35.4			ng/L	37.2		95.1	50-200			

LCS Dup (B314648-BS1)

Prepared: 08/08/22 Analyzed: 08/10/22

Perfluorobutanoic acid (PFBA)	10.6	1.8		ng/L	9.18		115	70-130	4.50	30	
Perfluorobutanesulfonic acid (PFBS)	9.03	1.8		ng/L	8.13		111	70-130	1.79	30	
Perfluoropentanoic acid (PFPeA)	10.1	1.8		ng/L	9.18		110	70-130	4.07	30	
Perfluorohexanoic acid (PFHxA)	10.2	1.8		ng/L	9.18		111	70-130	5.14	30	
11Cl-PF3OUdS (F53B Major)	9.56	1.8		ng/L	8.65		111	70-130	1.78	30	

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B314648 - EPA 533
LCS Dup (B314648-BSD1)

Prepared: 08/08/22 Analyzed: 08/10/22

9Cl-PF3ONS (F53B Minor)	8.78	1.8		ng/L	8.56		103	70-130	12.4	30	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	8.23	1.8		ng/L	8.65		95.1	70-130	4.76	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	10.0	1.8		ng/L	9.18		109	70-130	6.76	30	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	9.38	1.8		ng/L	8.81		106	70-130	11.7	30	
Perfluorodecanoic acid (PFDA)	10.8	1.8		ng/L	9.18		117	70-130	5.12	30	
Perfluorododecanoic acid (PFDoA)	11.3	1.8		ng/L	9.18		123	70-130	4.88	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEsA)	7.48	1.8		ng/L	8.17		91.6	70-130	3.68	30	
Perfluoroheptanesulfonic acid (PFHpS)	10.9	1.8		ng/L	8.77		124	70-130	0.472	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	9.23	1.8		ng/L	8.58		108	70-130	0.225	30	
Perfluorohexanesulfonic acid (PFHxS)	8.88	1.8		ng/L	8.40		106	70-130	4.63	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	8.30	1.8		ng/L	9.18		90.4	70-130	4.26	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	8.70	1.8		ng/L	9.18		94.7	70-130	2.87	30	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	9.20	1.8		ng/L	8.72		105	70-130	1.51	30	
Perfluoropetanesulfonic acid (PFPeS)	8.43	1.8		ng/L	8.63		97.7	70-130	4.29	30	
Perfluoroundecanoic acid (PFUnA)	10.5	1.8		ng/L	9.18		114	70-130	5.86	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	9.60	1.8		ng/L	9.18		105	70-130	5.04	30	
Perfluoroheptanoic acid (PFHpA)	10.6	1.8		ng/L	9.18		115	70-130	5.74	30	
Perfluorooctanoic acid (PFOA)	10.1	1.8		ng/L	9.18		110	70-130	0.466	30	
Perfluorooctanesulfonic acid (PFOS)	10.7	1.8		ng/L	8.49		126	70-130	2.82	30	
Perfluorononanoic acid (PFNA)	11.1	1.8		ng/L	9.18		120	70-130	2.56	30	
Surrogate: M2-4:2FTS	29.3			ng/L	34.4		85.0	50-200			
Surrogate: M2-8:2FTS	38.0			ng/L	35.3		108	50-200			
Surrogate: MPFBA	35.0			ng/L	36.7		95.4	50-200			
Surrogate: M3HFPO-DA	36.2			ng/L	36.7		98.5	50-200			
Surrogate: M6PFDA	37.6			ng/L	36.7		102	50-200			
Surrogate: M3PFBS	31.0			ng/L	34.2		90.6	50-200			
Surrogate: M7PFUnA	34.6			ng/L	36.7		94.3	50-200			
Surrogate: M2-6:2FTS	33.9			ng/L	34.9		97.0	50-200			
Surrogate: M5PFPeA	34.7			ng/L	36.7		94.6	50-200			
Surrogate: M5PFHxA	33.5			ng/L	36.7		91.2	50-200			
Surrogate: M3PFHxS	33.0			ng/L	34.8		94.8	50-200			
Surrogate: M4PFHpA	33.2			ng/L	36.7		90.3	50-200			
Surrogate: M8PFOA	35.4			ng/L	36.7		96.5	50-200			
Surrogate: M8PFOS	34.9			ng/L	35.2		99.2	50-200			
Surrogate: M9PFNA	36.4			ng/L	36.7		99.1	50-200			
Surrogate: MPFDoA	33.9			ng/L	36.7		92.3	50-200			

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
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.
B	Analyte is found in the associated laboratory blank as well as in the sample.
E	Reported result is estimated. Value reported over verified calibration range.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
PF-18	Duplicate analysis confirmed Extracted Internal Standard failure due to matrix effects.
S-29	Extracted Internal Standard is outside of control limits.
V-06	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side for this compound.
Z-01	Extracted internal standard outside of control limits. Re-extraction yielded different non-conformances. Both results reported.

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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 533 in Drinking Water</i>	
Perfluorobutanoic acid (PFBA)	VT-DW,ME,NJ,NH-P
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME,NJ,NH-P
Perfluoropentanoic acid (PFPeA)	VT-DW,ME,NJ,NH-P
Perfluorohexanoic acid (PFHxA)	VT-DW,ME,NJ,NH-P
11Cl-PF3OUdS (F53B Major)	VT-DW,ME,NJ,NH-P
9Cl-PF3ONS (F53B Minor)	VT-DW,ME,NJ,NH-P
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	VT-DW,ME,NJ,NH-P
Hexafluoropropylene oxide dimer acid (HFPO-DA)	VT-DW,ME,NJ,NH-P
8:2 Fluorotelomersulfonic acid (8:2FTS A)	VT-DW,ME,NJ,NH-P
Perfluorodecanoic acid (PFDA)	VT-DW,ME,NJ,NH-P
Perfluorododecanoic acid (PFDoA)	VT-DW,ME,NJ,NH-P
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	VT-DW,ME,NJ,NH-P
Perfluoroheptanesulfonic acid (PFHpS)	VT-DW,ME,NJ,NH-P
4:2 Fluorotelomersulfonic acid (4:2FTS A)	VT-DW,ME,NJ,NH-P
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME,NJ,NH-P
Perfluoro-4-oxapentanoic acid (PFMPA)	VT-DW,ME,NJ,NH-P
Perfluoro-5-oxahexanoic acid (PFMBA)	VT-DW,ME,NJ,NH-P
6:2 Fluorotelomersulfonic acid (6:2FTS A)	VT-DW,ME,NJ,NH-P
Perfluoropentanesulfonic acid (PFPeS)	VT-DW,ME,NJ,NH-P
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME,NJ,NH-P
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	VT-DW,ME,NJ,NH-P
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME,NJ,NH-P
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,NJ
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,NJ
Perfluorononanoic acid (PFNA)	VT-DW,ME,NJ,NH-P

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO 17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2023
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
NC-DW	North Carolina Department of Health and Human Services	25703	07/31/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022



Infrastructure Water Environment Buildings

ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

Page 1 of 3

Contact & Company Name:		Telephone:		Preservative		F		No		PARAMETER ANALYSIS & METHOD		REMARKS	
Nick Firman/Arcadis		3155596075		Filtered (✓)		No		2/1/01					
Address:		Fax:		# of Containers		Container Information							
110 W Fayette St., Suite 300													
City		State		Zip		E-mail Address:							
Syracuse NY		13202				Nick.Firman@arcadis.com							
Project Name/Location (City, State):		Project #:		Sampler's Signature:									
Newburgh, NY													
Sampler's Printed Name:		Sample ID		Collection		Type (✓)		Matrix					
Nick Firman				Date		Time		Comp		Grab			
				7/12/22		015		X		W			
1	ML-1A-M												
2	WL-3A-B												
3	WL-3A-T												
4	WL-4A-M												
5	WL-2A-M												
6	WL-1A-B												
7	WL-1A-T												
8	WL-6A-B												
9	WL-6A-M												
10	WL-6A-T												
11	WL-5A-B												
12	WL-5A-M												
13	WL-5A-T												
14	ML-2A (6")												

Special Instructions/Comments: ☐ Special QA/QC Instructions (✓):

Keys

Preservation Key:

A. H₂SO₄
B. HCl
C. HNO₃
D. NaOH
E. None
F. Other: Ammonium nitrate
G. Other: Ammonium nitrate
H. Other: Ammonium nitrate
I. Other: Ammonium nitrate

Container Information Key:

1. 40 ml Vial
2. 1-L Amber
3. 250 ml Plastic
4. 500 ml Plastic
5. Encore
6. 2 oz Glass
7. 4 oz Glass
8. 8 oz Glass
9. Other:
10. Other:

Matrix Key:

SE - Sediment
SW - Sample Wipe
A - Air
SO - Soil
SL - Sludge
T - Tissue
W - Water

REMARKS

Please analyze per EPA Method 533, 10 day TAT requested. Please call or email with any question at 3155596075 for Nick.Firman@arcadis.com Thanks!

Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By	
Lab Name:	Cooler Custody Seal (✓)	Printed Name:	Signature:	Printed Name:	Signature:	Printed Name:	Signature:	Printed Name:	Signature:
Can Test	☒ Intact ☐ Not Intact	Nick Firman		Luiz A. Rocha					
Cooler packed with ice (✓)									
Specify Turnaround Requirements	Sample Receipt:								
10 day TAT	Condition/Cooler Temp. _____								
Shipping Tracking #:									

WHITE - Laboratory returns with results
YELLOW - Lab copy
PINK - Retained by ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

 Page 2 of 3

Lab Work Order #

ID#:

Contact & Company Name:		Telephone:	Preservative	Filtered (✓)	# of Containers	Container Information	PARAMETER ANALYSIS & METHOD				Matrix	Type (✓)	Collection Date	Time	Sample ID	REMARKS
Address:		Fax:														
City:		State:	Zip:	E-mail:												
Project Name/Location (City, State):		Project #:		Sampler's Signature:												
Sampler's Printed Name:																
15	ML-2A (SW)	7/12/22	1235													
16	ML-3A (6")	1245														
17	ML-3A (SW)	1258														
18	SS-6A (6")	1320														
19	SS-6A (SW)	1325														
20	MC-2A (6")	1355														
21	MC-2A (SW)	1400														
22	MC-1A (6")	1335														
23	MC-1A (SW)	1340														
24	MC-3A (6")	1415														
25	MC-3A (SW)	1420														
26	MC-4A (6")	7/13/22	855													
27	MC-4A (SW)	900														
28	SS-5A (6")	915														

Special Instructions/Comments: ☐ Special QA/QC Instructions (✓):

Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By	
Lab Name:	Contest	Printed Name:	Nick Ferman	Printed Name:		Printed Name:		Printed Name:	
☒ Cooler packed with ice (✓) ☐ Intact ☐ Not Intact		Signature:		Signature:		Signature:		Signature:	
Specify Turnaround Requirements: 10 day TAT		Firm:	Aradis	Firm/Courier:		Firm/Courier:		Firm:	
Shipping Tracking #:		Date/Time:	7/14/22 1300	Date/Time:		Date/Time:		Date/Time:	
Distribution:		WHITE - Laboratory returns with results		YELLOW - Lab copy		PINK - Retained by ARCADIS			

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 3 of 3

Lab Work Order #

Send Results to: Contact & Company Name: <u>Arcadis</u> Address: <u>(see page 1)</u> City: <u>State: <u>Zip: <u>Telephone: <u>Fax: <u>Project #:</u></u></u></u> Project Name/Location (City, State): Sampler's Printed Name: Sampler's Signature: </u>		Preservative Filtered (✓) <u>NO</u> # of Containers <u>2 per</u> Container Information <u>3</u>		PARAMETER ANALYSIS & METHOD <u>EQ 533 Method</u>		Keys Preservation Key: A. H ₂ SO ₄ B. HCL C. HNO ₃ D. NaOH E. None F. Other: G. Other: H. Other: Matrix Key: SE - Sediment SW - Sample Wipe A - Air Other: Container Information Key: 1. 40 ml Vial 2. 1 L Amber 3. 250 ml Plastic 4. 500 ml Plastic 5. Encore 6. 2 oz Glass 7. 4 oz Glass 8. 8 oz Glass 9. Other: 10. Other:	
Sample ID	Collection Date	Time	Type (✓) Comp	Grab	Matrix	REMARKS	
29 SS-5A (SW)	7/13/22	920	X		W	See page 1	
30 SS-3A (6")	930						
31 SS-3A (SW)	935						
32 SS-2A (6")	945						
33 SS-2A (SW)	950						
34 SS-1A (6")	955						
35 SS-1A (SW)	1000						
36 RP-1A (6")	1010						
37 RP-1A (SW)	1015						
38 RP-2A (6")	1020						
39 RP-2A (SW)	1025						
40 RPT-1A (6")	1030						
41 RPT-1A (SW)	1035						
Special Instructions/Comments: ☐ Special QA/QC Instructions (✓):							
Laboratory Information and Receipt Lab Name: <u>Can Test</u> Cooler Custody Seal (✓) ☒ Intact ☐ Not Intact Sample Receipt Condition/Cooler Temp: <u>10 day TAT</u> Shipping Tracking # <u>X</u>		Relinquished By Printed Name: <u>Nick Firman</u> Signature: <u>[Signature]</u> Firm: <u>Arcadis</u> Date/Time: <u>7/14/22 1306</u>		Received By Printed Name: _____ Signature: _____ Firm/Courier: _____ Date/Time: _____		Relinquished By Printed Name: _____ Signature: _____ Firm/Courier: _____ Date/Time: _____	
Distribution: WHITE - Laboratory returns with results YELLOW - Lab copy PINK - Retained by ARCADIS		20730826 Co/C AR Form 01.12.2007					

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.pacelabs.com



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 Arakis
Received By LA Date 7/15/22 Time 7:57
How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct From Sample F Ambient _____ Melted Ice _____
Were samples within Temperature? Within 2-6°C T By Gun # 5 Actual Temp - 4.3
By Blank # _____ Actual Temp - _____
Was Custody Seal In tact? N/A Were Samples Tampered with? F
Was COC Relinquished? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? T
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all Client? T Analysis? T Sampler Name? PTED
pertinent Information? Project? T ID's? 2 Collection Dates/Times? 7/15/22
Are Sample labels filled out and legible? F
Are there Lab to Filters? F Who was notified? _____
Are there Rushes? T Who was notified? _____
Are there Short Holds? F Who was notified? _____
Samples are received within holding time? T Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? F
Proper Media/Containers Used? T splitting samples require F
Were trip blanks receive F On COC? F
Do All Samples Have the proper pH? N/A 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-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	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:

September 7, 2022

David Chiusano
NYDEC_Arcadis US, Inc. - Clifton Park-NY
855 Route 146, Suite 210
Clifton Park, NY 12065

Project Location: Newburgh, NY
Client Job Number:
Project Number: Spill # 336089
Laboratory Work Order Number: 22G1600

Enclosed are results of analyses for samples as received by the laboratory on July 28, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Raymond J. McCarthy
Project Manager

Table of Contents

Sample Summary	5
Case Narrative	6
Sample Results	10
22G1600-01	10
22G1600-02	11
22G1600-03	12
22G1600-04	13
22G1600-05	14
22G1600-06	15
22G1600-07	16
22G1600-08	17
22G1600-09	18
22G1600-10	19
22G1600-11	20
22G1600-12	21
22G1600-13	22
22G1600-14	23
22G1600-15	24
22G1600-16	25
22G1600-17	26
22G1600-18	27
22G1600-19	28
22G1600-20	29
22G1600-21	30
22G1600-22	31

Table of Contents (continued)

22G1600-23	32
22G1600-24	33
22G1600-25	34
22G1600-26	35
22G1600-27	36
22G1600-28	37
22G1600-29	38
22G1600-30	39
22G1600-31	40
22G1600-32	41
22G1600-33	42
22G1600-34	43
22G1600-35	44
22G1600-36	45
22G1600-37	46
22G1600-38	47
22G1600-39	48
22G1600-40	49
22G1600-41	50
Sample Preparation Information	51
QC Data	53
Semivolatile Organic Compounds by - LC/MS-MS	53
B314226	53
B314650	55
B314692	57

Table of Contents (continued)

B316009	60
Flag/Qualifier Summary	63
Certifications	64
Chain of Custody/Sample Receipt	65

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

 NYDEC_Arcadis US, Inc. - Clifton Park-NY
 855 Route 146, Suite 210
 Clifton Park, NY 12065
 ATTN: David Chiusano

REPORT DATE: 9/7/2022

PURCHASE ORDER NUMBER: 141589

PROJECT NUMBER: Spill # 336089

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22G1600

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Newburgh, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MC-4A (6")	22G1600-01	Drinking Water		EPA 533	
MC-4A (SW)	22G1600-02	Drinking Water		EPA 533	
MC-3A (6")	22G1600-03	Drinking Water		EPA 533	
MC-3A (SW)	22G1600-04	Drinking Water		EPA 533	
RP-1A (6")	22G1600-05	Drinking Water		EPA 533	
RP-1A (SW)	22G1600-06	Drinking Water		EPA 533	
RP-2A (6")	22G1600-07	Drinking Water		EPA 533	
RP-2A (SW)	22G1600-08	Drinking Water		EPA 533	
RPT-1A (6")	22G1600-09	Drinking Water		EPA 533	
RPT-1A (SW)	22G1600-10	Drinking Water		EPA 533	
ML-3A (6")	22G1600-11	Drinking Water		EPA 533	
ML-3A (SW)	22G1600-12	Drinking Water		EPA 533	
ML-2A (6")	22G1600-13	Drinking Water		EPA 533	
ML-2A (SW)	22G1600-14	Drinking Water		EPA 533	
SS-5A (6")	22G1600-15	Drinking Water		EPA 533	
SS-5A (SW)	22G1600-16	Drinking Water		EPA 533	
SS-6A (6")	22G1600-17	Drinking Water		EPA 533	
SS-6A (SW)	22G1600-18	Drinking Water		EPA 533	
MC-1A (6")	22G1600-19	Drinking Water		EPA 533	
MC-1A (SW)	22G1600-20	Drinking Water		EPA 533	
MC-2A (6")	22G1600-21	Drinking Water		EPA 533	
MC-2A (SW)	22G1600-22	Drinking Water		EPA 533	
SS-3A (6")	22G1600-23	Drinking Water		EPA 533	
SS-3A (SW)	22G1600-24	Drinking Water		EPA 533	
SS-2A (6")	22G1600-25	Drinking Water		EPA 533	
SS-2A (SW)	22G1600-26	Drinking Water		EPA 533	
SS-1A (6")	22G1600-27	Drinking Water		EPA 533	
SS-1A (SW)	22G1600-28	Drinking Water		EPA 533	
ML-1A-M	22G1600-29	Drinking Water		EPA 533	
WL-3A-B	22G1600-30	Drinking Water		EPA 533	
WL-3A-T	22G1600-31	Drinking Water		EPA 533	
WL-4A-M	22G1600-32	Drinking Water		EPA 533	
WL-2A-M	22G1600-33	Drinking Water		EPA 533	
WL-6A-B	22G1600-34	Drinking Water		EPA 533	
WL-6A-M	22G1600-35	Drinking Water		EPA 533	
WL-6A-T	22G1600-36	Drinking Water		EPA 533	
WL-5A-B	22G1600-37	Drinking Water		EPA 533	
WL-5A-M	22G1600-38	Drinking Water		EPA 533	
WL-5A-T	22G1600-39	Drinking Water		EPA 533	
WL-1A-B	22G1600-40	Drinking Water		EPA 533	
WL-1A-T	22G1600-41	Drinking Water		EPA 533	

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

CASE NARRATIVE SUMMARY

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

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

EPA 533**Qualifications:****B**

Analyte is found in the associated laboratory blank as well as in the sample.

Analyte & Samples(s) Qualified:**11Cl-PF3OUdS (F53B Major)**

B314692-BS1, B314692-BSD1

9Cl-PF3ONS (F53B Minor)

B314692-BS1, B314692-BSD1

Perfluorohexanesulfonic acid (PFH)

22G1600-31[WL-3A-T], 22G1600-32[WL-4A-M], 22G1600-33[WL-2A-M], 22G1600-34[WL-6A-B], 22G1600-35[WL-6A-M], 22G1600-36[WL-6A-T], 22G1600-37[WL-5A-B], 22G1600-38[WL-5A-M], 22G1600-39[WL-5A-T], 22G1600-40[WL-1A-B], 22G1600-41[WL-1A-T], B314692-BS1, B314692-BSD1

Perfluoroundecanoic acid (PFUnA)

B314692-BS1, B314692-BSD1

H-04

Initial analysis within holding time. Reanalysis for the required dilution was past holding time.

Analyte & Samples(s) Qualified:**M8PFOS**

22G1600-05RE1[RP-1A (6")], 22G1600-06RE1[RP-1A (SW)], 22G1600-07RE1[RP-2A (6")], 22G1600-08RE1[RP-2A (SW)]

Perfluorooctanesulfonic acid (PFO)

22G1600-05RE1[RP-1A (6")], 22G1600-06RE1[RP-1A (SW)], 22G1600-07RE1[RP-2A (6")], 22G1600-08RE1[RP-2A (SW)]

L-05

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

Analyte & Samples(s) Qualified:**Perfluorobutanesulfonic acid (PFB)**

22G1600-21[MC-2A (6")], 22G1600-22[MC-2A (SW)], 22G1600-23[SS-3A (6")], 22G1600-24[SS-3A (SW)], 22G1600-25[SS-2A (6")], 22G1600-26[SS-2A (SW)], 22G1600-27[SS-1A (6")], 22G1600-28[SS-1A (SW)], 22G1600-29[ML-1A-M], 22G1600-30[WL-3A-B], B314650-BS1

PF-17

Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.

Analyte & Samples(s) Qualified:**M2-4:2FTS**

22G1600-39[WL-5A-T]

M2-6:2FTS

22G1600-31[WL-3A-T], 22G1600-32[WL-4A-M], 22G1600-33[WL-2A-M], 22G1600-34[WL-6A-B], 22G1600-35[WL-6A-M], 22G1600-36[WL-6A-T], 22G1600-37[WL-5A-B], 22G1600-38[WL-5A-M], 22G1600-39[WL-5A-T], 22G1600-40[WL-1A-B], 22G1600-41[WL-1A-T]

M2-8:2FTS

22G1600-32[WL-4A-M], 22G1600-33[WL-2A-M], 22G1600-34[WL-6A-B], 22G1600-35[WL-6A-M], 22G1600-37[WL-5A-B], 22G1600-38[WL-5A-M], 22G1600-39[WL-5A-T], 22G1600-40[WL-1A-B]

M7PFUnA

22G1600-39[WL-5A-T]

MPFDoA

22G1600-39[WL-5A-T]

S-29

Extracted Internal Standard is outside of control limits.

Analyte & Samples(s) Qualified:**M2-4:2FTS**

S076217-CCV3

M2-6:2FTS

S076217-CCV3

M2-8:2FTS

B314226-BLK1, S076217-CCV3

V-20

Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**8:2 Fluorotelomersulfonic acid (8:2**

S075839-CCV1

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

Z-01

Detection found within blank >1/3 the MRL.

Analyte & Samples(s) Qualified:
Perfluorobutanesulfonic acid (PFB)

22G1600-21[MC-2A (6")], 22G1600-22[MC-2A (SW)], 22G1600-23[SS-3A (6")], 22G1600-24[SS-3A (SW)], 22G1600-25[SS-2A (6")], 22G1600-26[SS-2A (SW)], 22G1600-27[SS-1A (6")], 22G1600-28[SS-1A (SW)], 22G1600-29[ML-1A-M], 22G1600-30[WL-3A-B], B314650-BLK1

Z-01a

Due to a lab accident, blank does not contain any internal standard. Results should be considered suspect.

Analyte & Samples(s) Qualified:

22G1600-31[WL-3A-T], 22G1600-32[WL-4A-M], 22G1600-33[WL-2A-M], 22G1600-34[WL-6A-B], 22G1600-35[WL-6A-M], 22G1600-36[WL-6A-T], 22G1600-37[WL-5A-B], 22G1600-38[WL-5A-M], 22G1600-39[WL-5A-T], 22G1600-40[WL-1A-B], 22G1600-41[WL-1A-T], B314692-BLK1, B314692-BS1, B314692-BSD1

Z-01b

Extracted internal standard outside of control limits. Sample not re-extracted past hold per method criteria.

Analyte & Samples(s) Qualified:
M2-6:2FTS

22G1600-05[RP-1A (6")], 22G1600-06[RP-1A (SW)], 22G1600-07[RP-2A (6")], 22G1600-08[RP-2A (SW)], 22G1600-15[SS-5A (6")], 22G1600-16[SS-5A (SW)]

M2-8:2FTS

22G1600-01[MC-4A (6")], 22G1600-15[SS-5A (6")]

M3HFPO-DA

22G1600-24[SS-3A (SW)]

M3PFBS

22G1600-39[WL-5A-T]

M3PFHxS

22G1600-39[WL-5A-T]

M4PFHpA

22G1600-39[WL-5A-T]

M5PFHxA

22G1600-39[WL-5A-T]

M5PFPeA

22G1600-32[WL-4A-M], 22G1600-33[WL-2A-M], 22G1600-34[WL-6A-B], 22G1600-35[WL-6A-M], 22G1600-36[WL-6A-T], 22G1600-37[WL-5A-B], 22G1600-38[WL-5A-M], 22G1600-39[WL-5A-T], 22G1600-40[WL-1A-B], 22G1600-41[WL-1A-T]

M6PFDA

22G1600-39[WL-5A-T]

M8PFOA

22G1600-39[WL-5A-T]

M8PFOS

22G1600-39[WL-5A-T]

M9PFNA

22G1600-39[WL-5A-T]

MPFBA

22G1600-39[WL-5A-T]

Z-01c

Internal standard area <50% of associated calibration standard internal standard area. Sample not re-extracted pas hold per method criteria

Analyte & Samples(s) Qualified:
M2PFOA

22G1600-39[WL-5A-T]

M3PFBA

22G1600-32[WL-4A-M], 22G1600-33[WL-2A-M], 22G1600-34[WL-6A-B], 22G1600-35[WL-6A-M], 22G1600-36[WL-6A-T], 22G1600-37[WL-5A-B], 22G1600-38[WL-5A-M], 22G1600-39[WL-5A-T], 22G1600-40[WL-1A-B], 22G1600-41[WL-1A-T]

MPFOS

22G1600-39[WL-5A-T]

Z-01d

Internal standard area <50% of associated calibration standard internal standard area. Sample not re-extracted pas hold per method criteria.

Analyte & Samples(s) Qualified:
M3PFBA

22G1600-31[WL-3A-T]

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

Z-01e

Internal standard area <50% of associated calibration standard internal standard area. Sample not re-extracted past hold per method criteria

Analyte & Samples(s) Qualified:**M3PFBA**

22G1600-16[SS-5A (SW)]

Z-01f

Internal standard area <50% of associated calibration standard internal standard area. Sample not re-extracted past hold per method criteria.

Analyte & Samples(s) Qualified:**M3PFBA**

22G1600-15[SS-5A (6")]

Z-01g

Internal standard area >150% of associated calibration standard internal standard area. Sample not re-extracted pas hold per method criteria.

Analyte & Samples(s) Qualified:**M2PFOA**

B314692-BS1

Z-01h

Internal standard area >50% of associated calibration standard internal standard area. Sample not re-extracted past hold per method criteria.

Analyte & Samples(s) Qualified:**M2PFOA**

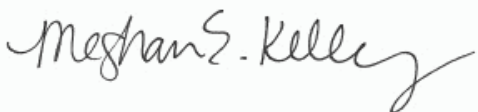
22G1600-24[SS-3A (SW)]

MPFOS

22G1600-24[SS-3A (SW)]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace 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.



Meghan E. Kelley

Project Management Supervisor

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: MC-4A (6")

Sampled: 7/26/2022 08:50

Sample ID: 22G1600-01

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	8.9	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
Perfluorobutanesulfonic acid (PFBS)	4.3	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
Perfluoropentanoic acid (PFPeA)	20	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
Perfluorohexanoic acid (PFHxA)	13	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
Perfluorohexanesulfonic acid (PFHxS)	10	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
Perfluoroheptanoic acid (PFHpA)	7.3	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
Perfluorooctanoic acid (PFOA)	9.1	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
Perfluorooctanesulfonic acid (PFOS)	24	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL
Perfluorononanoic acid (PFNA)	1.8	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 14:46	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	109	50-200	
M2-8:2FTS	203 *	50-200	Z-01b
MPFBA	96.4	50-200	
M3HFPO-DA	63.2	50-200	
M6PFDA	79.9	50-200	
M3PFBS	95.6	50-200	
M7PFUnA	79.6	50-200	
M2-6:2FTS	146	50-200	
M5PFPeA	134	50-200	
M5PFHxA	85.1	50-200	
M3PFHxS	104	50-200	
M4PFHpA	87.2	50-200	
M8PFOA	91.7	50-200	
M8PFOS	97.9	50-200	
M9PFNA	87.8	50-200	
MPFDoA	83.0	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: MC-4A (SW)

Sampled: 7/26/2022 08:55

Sample ID: 22G1600-02

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	8.6	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
Perfluorobutanesulfonic acid (PFBS)	4.0	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
Perfluoropentanoic acid (PFPeA)	19	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
Perfluorohexanoic acid (PFHxA)	12	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
Perfluorohexanesulfonic acid (PFHxS)	10	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
Perfluoroheptanoic acid (PFHpA)	7.3	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
Perfluorooctanoic acid (PFOA)	9.2	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
Perfluorooctanesulfonic acid (PFOS)	25	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL
Perfluorononanoic acid (PFNA)	1.8	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 14:53	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	115	50-200	8/25/22 14:53
M2-8:2FTS	169	50-200	8/25/22 14:53
MPFBA	99.2	50-200	8/25/22 14:53
M3HFPO-DA	62.6	50-200	8/25/22 14:53
M6PFDA	89.0	50-200	8/25/22 14:53
M3PFBS	96.5	50-200	8/25/22 14:53
M7PFUnA	89.9	50-200	8/25/22 14:53
M2-6:2FTS	153	50-200	8/25/22 14:53
M5PFPeA	145	50-200	8/25/22 14:53
M5PFHxA	92.6	50-200	8/25/22 14:53
M3PFHxS	101	50-200	8/25/22 14:53
M4PFHpA	93.2	50-200	8/25/22 14:53
M8PFOA	93.9	50-200	8/25/22 14:53
M8PFOS	99.3	50-200	8/25/22 14:53
M9PFNA	92.5	50-200	8/25/22 14:53
MPFDoA	89.0	50-200	8/25/22 14:53

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: MC-3A (6")

Sampled: 7/26/2022 09:10

Sample ID: 22G1600-03

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	7.4	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
Perfluorobutanesulfonic acid (PFBS)	4.1	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
Perfluoropentanoic acid (PFPeA)	17	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
Perfluorohexanoic acid (PFHxA)	11	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
Perfluorohexanesulfonic acid (PFHxS)	10	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.4	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
Perfluoroheptanoic acid (PFHpA)	6.9	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
Perfluorooctanoic acid (PFOA)	9.9	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
Perfluorooctanesulfonic acid (PFOS)	49	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL
Perfluorononanoic acid (PFNA)	2.6	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:01	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	98.5	50-200	8/25/22 15:01
M2-8:2FTS	154	50-200	8/25/22 15:01
MPFBA	91.5	50-200	8/25/22 15:01
M3HFPO-DA	58.4	50-200	8/25/22 15:01
M6PFDA	86.6	50-200	8/25/22 15:01
M3PFBS	83.8	50-200	8/25/22 15:01
M7PFUnA	83.7	50-200	8/25/22 15:01
M2-6:2FTS	121	50-200	8/25/22 15:01
M5PFPeA	131	50-200	8/25/22 15:01
M5PFHxA	88.3	50-200	8/25/22 15:01
M3PFHxS	88.1	50-200	8/25/22 15:01
M4PFHpA	83.6	50-200	8/25/22 15:01
M8PFOA	90.7	50-200	8/25/22 15:01
M8PFOS	82.6	50-200	8/25/22 15:01
M9PFNA	87.9	50-200	8/25/22 15:01
MPFDoA	86.1	50-200	8/25/22 15:01

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: MC-3A (SW)

Sampled: 7/26/2022 09:15

Sample ID: 22G1600-04

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	6.8	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
Perfluorobutanesulfonic acid (PFBS)	3.9	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
Perfluoropentanoic acid (PFPeA)	17	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
Perfluorohexanoic acid (PFHxA)	11	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
Perfluorohexanesulfonic acid (PFHxS)	10	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.2	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
Perfluoroheptanoic acid (PFHpA)	6.5	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
Perfluorooctanoic acid (PFOA)	8.5	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
Perfluorooctanesulfonic acid (PFOS)	21	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:08	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	112	50-200	8/25/22 15:08
M2-8:2FTS	166	50-200	8/25/22 15:08
MPFBA	96.4	50-200	8/25/22 15:08
M3HFPO-DA	67.6	50-200	8/25/22 15:08
M6PFDA	96.5	50-200	8/25/22 15:08
M3PFBS	88.7	50-200	8/25/22 15:08
M7PFUnA	90.8	50-200	8/25/22 15:08
M2-6:2FTS	160	50-200	8/25/22 15:08
M5PFPeA	143	50-200	8/25/22 15:08
M5PFHxA	88.2	50-200	8/25/22 15:08
M3PFHxS	95.4	50-200	8/25/22 15:08
M4PFHpA	86.8	50-200	8/25/22 15:08
M8PFOA	91.6	50-200	8/25/22 15:08
M8PFOS	100	50-200	8/25/22 15:08
M9PFNA	96.9	50-200	8/25/22 15:08
MPFDoA	86.9	50-200	8/25/22 15:08

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: RP-1A (6")

Sampled: 7/26/2022 10:10

Sample ID: 22G1600-05

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	46	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL
Perfluorobutanesulfonic acid (PFBS)	19	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL
Perfluoropentanoic acid (PFPeA)	120	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL
Perfluorohexanoic acid (PFHxA)	88	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	15	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL
Perfluorodecanoic acid (PFDA)	8.5	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL
Perfluorododecanoic acid (PFDoA)	1.9	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL
Perfluoroheptanesulfonic acid (PFHpS)	10	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL
Perfluorohexanesulfonic acid (PFHxS)	120	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	91	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL
Perfluoropetanesulfonic acid (PFPeS)	17	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL
Perfluoroheptanoic acid (PFHpA)	43	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL
Perfluorooctanoic acid (PFOA)	40	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL
Perfluorooctanesulfonic acid (PFOS)	410	20		ng/L	1	H-04	EPA 533	8/31/22	9/6/22 18:24	DRL
Perfluorononanoic acid (PFNA)	11	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:15	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	146	50-200	
M2-8:2FTS	186	50-200	
MPFBA	91.6	50-200	
M3HFPO-DA	55.8	50-200	
M6PFDA	86.3	50-200	
M3PFBS	88.8	50-200	
M7PFUnA	80.7	50-200	
M2-6:2FTS	215	50-200	Z-01b
M5PFPeA	129	50-200	
M5PFHxA	87.7	50-200	
M3PFHxS	93.6	50-200	
M4PFHpA	87.2	50-200	
M8PFOA	91.2	50-200	
M8PFOS	98.6	50-200	H-04
M9PFNA	84.2	50-200	
MPFDoA	76.9	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: RP-1A (SW)

Sampled: 7/26/2022 10:15

Sample ID: 22G1600-06

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	48	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL
Perfluorobutanesulfonic acid (PFBS)	20	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL
Perfluoropentanoic acid (PFPeA)	130	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL
Perfluorohexanoic acid (PFHxA)	91	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	12	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL
Perfluorodecanoic acid (PFDA)	9.0	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL
Perfluorododecanoic acid (PFDoA)	2.1	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL
Perfluoroheptanesulfonic acid (PFHpS)	11	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.8	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL
Perfluorohexanesulfonic acid (PFHxS)	130	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	99	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL
Perfluoropentanesulfonic acid (PFPeS)	17	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL
Perfluoroheptanoic acid (PFHpA)	44	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL
Perfluorooctanoic acid (PFOA)	41	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL
Perfluorooctanesulfonic acid (PFOS)	440	20		ng/L	1	H-04	EPA 533	8/31/22	9/6/22 18:32	DRL
Perfluorononanoic acid (PFNA)	11	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:22	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	158	50-200	
M2-8:2FTS	194	50-200	
MPFBA	89.9	50-200	
M3HFPO-DA	62.0	50-200	
M6PFDA	84.5	50-200	
M3PFBS	94.1	50-200	
M7PFUnA	83.8	50-200	
M2-6:2FTS	234	50-200	Z-01b
M5PFPeA	131	50-200	
M5PFHxA	88.9	50-200	
M3PFHxS	101	50-200	
M4PFHpA	85.2	50-200	
M8PFOA	90.0	50-200	
M8PFOS	92.6	50-200	H-04
M9PFNA	86.0	50-200	
MPFDoA	82.5	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: RP-2A (6")

Sampled: 7/26/2022 10:25

Sample ID: 22G1600-07

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	48	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL
Perfluorobutanesulfonic acid (PFBS)	21	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL
Perfluoropentanoic acid (PFPeA)	120	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL
Perfluorohexanoic acid (PFHxA)	88	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	19	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL
Perfluorodecanoic acid (PFDA)	8.8	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL
Perfluorododecanoic acid (PFDoA)	2.3	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL
Perfluoroheptanesulfonic acid (PFHpS)	11	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.8	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL
Perfluorohexanesulfonic acid (PFHxS)	120	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	91	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL
Perfluoropentanesulfonic acid (PFPeS)	17	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL
Perfluoroheptanoic acid (PFHpA)	42	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL
Perfluorooctanoic acid (PFOA)	41	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL
Perfluorooctanesulfonic acid (PFOS)	410	20		ng/L	1	H-04	EPA 533	8/31/22	9/6/22 18:39	DRL
Perfluorononanoic acid (PFNA)	11	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:29	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	151	50-200	
M2-8:2FTS	182	50-200	
MPFBA	86.3	50-200	
M3HFPO-DA	55.9	50-200	
M6PFDA	80.3	50-200	
M3PFBS	93.5	50-200	
M7PFUnA	76.7	50-200	
M2-6:2FTS	210 *	50-200	Z-01b
M5PFPeA	123	50-200	
M5PFHxA	85.1	50-200	
M3PFHxS	101	50-200	
M4PFHpA	86.8	50-200	
M8PFOA	87.2	50-200	
M8PFOS	88.0	50-200	H-04
M9PFNA	82.0	50-200	
MPFDoA	74.5	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: RP-2A (SW)

Sampled: 7/26/2022 10:30

Sample ID: 22G1600-08

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	49	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL
Perfluorobutanesulfonic acid (PFBS)	19	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL
Perfluoropentanoic acid (PFPeA)	120	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL
Perfluorohexanoic acid (PFHxA)	87	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	16	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL
Perfluorodecanoic acid (PFDA)	9.5	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL
Perfluorododecanoic acid (PFDoA)	2.1	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL
Perfluoroheptanesulfonic acid (PFHpS)	9.5	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.7	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL
Perfluorohexanesulfonic acid (PFHxS)	130	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	98	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL
Perfluoropentanesulfonic acid (PFPeS)	17	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL
Perfluoroheptanoic acid (PFHpA)	43	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL
Perfluorooctanoic acid (PFOA)	39	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL
Perfluorooctanesulfonic acid (PFOS)	380	20		ng/L	1	H-04	EPA 533	8/31/22	9/6/22 18:46	DRL
Perfluorononanoic acid (PFNA)	9.8	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 15:37	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	153	50-200	
M2-8:2FTS	196	50-200	
MPFBA	88.5	50-200	
M3HFPO-DA	53.2	50-200	
M6PFDA	83.7	50-200	
M3PFBS	93.3	50-200	
M7PFUnA	83.1	50-200	
M2-6:2FTS	225	50-200	Z-01b
M5PFPeA	125	50-200	
M5PFHxA	86.3	50-200	
M3PFHxS	98.6	50-200	
M4PFHpA	85.0	50-200	
M8PFOA	92.3	50-200	
M8PFOS	94.4	50-200	H-04
M9PFNA	89.6	50-200	
MPFDoA	82.6	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: RPT-1A (6")

Sampled: 7/26/2022 10:45

Sample ID: 22G1600-09

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	9.6	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
Perfluoropentanoic acid (PFPeA)	11	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
Perfluorohexanoic acid (PFHxA)	2.6	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
Perfluorooctanesulfonic acid (PFOS)	5.4	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:44	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	88.9	50-200	8/25/22 15:44
M2-8:2FTS	182	50-200	8/25/22 15:44
MPFBA	106	50-200	8/25/22 15:44
M3HFPO-DA	76.5	50-200	8/25/22 15:44
M6PFDA	92.3	50-200	8/25/22 15:44
M3PFBS	106	50-200	8/25/22 15:44
M7PFUnA	63.5	50-200	8/25/22 15:44
M2-6:2FTS	130	50-200	8/25/22 15:44
M5PFPeA	107	50-200	8/25/22 15:44
M5PFHxA	97.1	50-200	8/25/22 15:44
M3PFHxS	113	50-200	8/25/22 15:44
M4PFHpA	101	50-200	8/25/22 15:44
M8PFOA	106	50-200	8/25/22 15:44
M8PFOS	104	50-200	8/25/22 15:44
M9PFNA	105	50-200	8/25/22 15:44
MPFDoA	87.8	50-200	8/25/22 15:44

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: RPT-1A (SW)

Sampled: 7/26/2022 10:50

Sample ID: 22G1600-10

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	11	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
Perfluoropentanoic acid (PFPeA)	13	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
Perfluorohexanoic acid (PFHxA)	3.0	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
Perfluorohexanesulfonic acid (PFHxS)	1.8	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
Perfluorooctanesulfonic acid (PFOS)	6.0	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 15:51	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	64.7	50-200	8/25/22 15:51
M2-8:2FTS	160	50-200	8/25/22 15:51
MPFBA	91.2	50-200	8/25/22 15:51
M3HFPO-DA	75.4	50-200	8/25/22 15:51
M6PFDA	82.2	50-200	8/25/22 15:51
M3PFBS	87.9	50-200	8/25/22 15:51
M7PFUnA	62.4	50-200	8/25/22 15:51
M2-6:2FTS	93.0	50-200	8/25/22 15:51
M5PFPeA	90.8	50-200	8/25/22 15:51
M5PFHxA	84.9	50-200	8/25/22 15:51
M3PFHxS	94.4	50-200	8/25/22 15:51
M4PFHpA	86.2	50-200	8/25/22 15:51
M8PFOA	91.3	50-200	8/25/22 15:51
M8PFOS	95.2	50-200	8/25/22 15:51
M9PFNA	87.9	50-200	8/25/22 15:51
MPFDoA	79.6	50-200	8/25/22 15:51

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: ML-3A (6")

Sampled: 7/26/2022 11:00

Sample ID: 22G1600-11

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	6.2	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
Perfluorobutanesulfonic acid (PFBS)	5.9	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
Perfluoropentanoic acid (PFPeA)	12	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
Perfluorohexanoic acid (PFHxA)	8.8	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
Perfluorohexanesulfonic acid (PFHxS)	4.5	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
Perfluoroheptanoic acid (PFHpA)	5.7	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
Perfluorooctanoic acid (PFOA)	11	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
Perfluorooctanesulfonic acid (PFOS)	13	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL
Perfluorononanoic acid (PFNA)	1.8	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:13	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	130	50-200	8/25/22 16:13
M2-8:2FTS	171	50-200	8/25/22 16:13
MPFBA	95.6	50-200	8/25/22 16:13
M3HFPO-DA	64.8	50-200	8/25/22 16:13
M6PFDA	65.2	50-200	8/25/22 16:13
M3PFBS	90.1	50-200	8/25/22 16:13
M7PFUnA	51.2	50-200	8/25/22 16:13
M2-6:2FTS	178	50-200	8/25/22 16:13
M5PFPeA	145	50-200	8/25/22 16:13
M5PFHxA	87.2	50-200	8/25/22 16:13
M3PFHxS	97.8	50-200	8/25/22 16:13
M4PFHpA	87.7	50-200	8/25/22 16:13
M8PFOA	92.3	50-200	8/25/22 16:13
M8PFOS	92.6	50-200	8/25/22 16:13
M9PFNA	80.3	50-200	8/25/22 16:13
MPFDoA	57.6	50-200	8/25/22 16:13

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: ML-3A (SW)

Sampled: 7/26/2022 11:05

Sample ID: 22G1600-12

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	6.4	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
Perfluorobutanesulfonic acid (PFBS)	5.6	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
Perfluoropentanoic acid (PFPeA)	11	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
Perfluorohexanoic acid (PFHxA)	8.3	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
Perfluorohexanesulfonic acid (PFHxS)	4.2	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
Perfluoroheptanoic acid (PFHpA)	5.4	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
Perfluorooctanoic acid (PFOA)	12	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
Perfluorooctanesulfonic acid (PFOS)	16	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL
Perfluorononanoic acid (PFNA)	2.1	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:20	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	141	50-200	8/25/22 16:20
M2-8:2FTS	179	50-200	8/25/22 16:20
MPFBA	97.2	50-200	8/25/22 16:20
M3HFPO-DA	53.4	50-200	8/25/22 16:20
M6PFDA	73.7	50-200	8/25/22 16:20
M3PFBS	94.3	50-200	8/25/22 16:20
M7PFUnA	75.7	50-200	8/25/22 16:20
M2-6:2FTS	197	50-200	8/25/22 16:20
M5PFPeA	148	50-200	8/25/22 16:20
M5PFHxA	91.6	50-200	8/25/22 16:20
M3PFHxS	102	50-200	8/25/22 16:20
M4PFHpA	93.4	50-200	8/25/22 16:20
M8PFOA	89.9	50-200	8/25/22 16:20
M8PFOS	98.1	50-200	8/25/22 16:20
M9PFNA	88.1	50-200	8/25/22 16:20
MPFDoA	78.9	50-200	8/25/22 16:20

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: ML-2A (6")

Sampled: 7/26/2022 11:10

Sample ID: 22G1600-13

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	5.5	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
Perfluorobutanesulfonic acid (PFBS)	7.2	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
Perfluoropentanoic acid (PFPeA)	9.9	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
Perfluorohexanoic acid (PFHxA)	8.2	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
Perfluorohexanesulfonic acid (PFHxS)	5.9	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
Perfluoroheptanoic acid (PFHpA)	5.9	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
Perfluorooctanoic acid (PFOA)	12	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
Perfluorooctanesulfonic acid (PFOS)	16	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:27	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	101	50-200	8/25/22 16:27
M2-8:2FTS	174	50-200	8/25/22 16:27
MPFBA	92.1	50-200	8/25/22 16:27
M3HFPO-DA	69.0	50-200	8/25/22 16:27
M6PFDA	75.3	50-200	8/25/22 16:27
M3PFBS	85.5	50-200	8/25/22 16:27
M7PFUnA	66.1	50-200	8/25/22 16:27
M2-6:2FTS	150	50-200	8/25/22 16:27
M5PFPeA	117	50-200	8/25/22 16:27
M5PFHxA	84.1	50-200	8/25/22 16:27
M3PFHxS	90.2	50-200	8/25/22 16:27
M4PFHpA	83.1	50-200	8/25/22 16:27
M8PFOA	89.1	50-200	8/25/22 16:27
M8PFOS	86.9	50-200	8/25/22 16:27
M9PFNA	83.5	50-200	8/25/22 16:27
MPFDoA	72.5	50-200	8/25/22 16:27

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: ML-2A (SW)

Sampled: 7/26/2022 11:15

Sample ID: 22G1600-14

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	5.7	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
Perfluorobutanesulfonic acid (PFBS)	7.1	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
Perfluoropentanoic acid (PFPeA)	10	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
Perfluorohexanoic acid (PFHxA)	8.1	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
Perfluorohexanesulfonic acid (PFHxS)	5.7	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
Perfluoroheptanoic acid (PFHpA)	5.4	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
Perfluorooctanoic acid (PFOA)	12	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
Perfluorooctanesulfonic acid (PFOS)	16	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:34	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	107	50-200	8/25/22 16:34
M2-8:2FTS	171	50-200	8/25/22 16:34
MPFBA	90.9	50-200	8/25/22 16:34
M3HFPO-DA	65.4	50-200	8/25/22 16:34
M6PFDA	78.9	50-200	8/25/22 16:34
M3PFBS	89.8	50-200	8/25/22 16:34
M7PFUnA	72.0	50-200	8/25/22 16:34
M2-6:2FTS	154	50-200	8/25/22 16:34
M5PFPeA	114	50-200	8/25/22 16:34
M5PFHxA	78.3	50-200	8/25/22 16:34
M3PFHxS	96.0	50-200	8/25/22 16:34
M4PFHpA	80.3	50-200	8/25/22 16:34
M8PFOA	81.5	50-200	8/25/22 16:34
M8PFOS	96.6	50-200	8/25/22 16:34
M9PFNA	81.1	50-200	8/25/22 16:34
MPFDoA	71.0	50-200	8/25/22 16:34

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: SS-5A (6")

Sampled: 7/26/2022 11:25

Sample ID: 22G1600-15

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	27	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
Perfluorobutanesulfonic acid (PFBS)	8.9	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
Perfluoropentanoic acid (PFPeA)	62	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
Perfluorohexanoic acid (PFHxA)	41	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	3.0	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
Perfluorodecanoic acid (PFDA)	3.5	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
Perfluoroheptanesulfonic acid (PFHpS)	2.8	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
Perfluorohexanesulfonic acid (PFHxS)	49	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	9.9	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
Perfluoropentanesulfonic acid (PFPeS)	4.7	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
Perfluoroheptanoic acid (PFHpA)	25	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
Perfluorooctanoic acid (PFOA)	26	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
Perfluorooctanesulfonic acid (PFOS)	110	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL
Perfluorononanoic acid (PFNA)	6.0	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 16:41	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	169	50-200	
M2-8:2FTS	206 *	50-200	Z-01b
MPFBA	100	50-200	
M3HFPO-DA	60.1	50-200	
M6PFDA	96.6	50-200	
M3PFBS	91.3	50-200	
M7PFUnA	102	50-200	
M2-6:2FTS	212 *	50-200	Z-01b
M5PFPeA	176	50-200	
M5PFHxA	97.9	50-200	
M3PFHxS	98.3	50-200	
M4PFHpA	94.0	50-200	
M8PFOA	99.3	50-200	
M8PFOS	90.4	50-200	
M9PFNA	96.0	50-200	
MPFDoA	97.0	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: SS-5A (SW)

Sampled: 7/26/2022 11:30

Sample ID: 22G1600-16

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	27	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
Perfluorobutanesulfonic acid (PFBS)	9.2	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
Perfluoropentanoic acid (PFPeA)	64	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
Perfluorohexanoic acid (PFHxA)	42	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	3.2	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
Perfluorodecanoic acid (PFDA)	3.5	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
Perfluorohexanesulfonic acid (PFHxS)	50	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	9.8	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
Perfluoropentanesulfonic acid (PFPeS)	4.5	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
Perfluoroheptanoic acid (PFHpA)	26	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
Perfluorooctanoic acid (PFOA)	27	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
Perfluorooctanesulfonic acid (PFOS)	100	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL
Perfluorononanoic acid (PFNA)	6.6	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:49	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	171	50-200	
M2-8:2FTS	199	50-200	
MPFBA	95.3	50-200	
M3HFPO-DA	59.6	50-200	
M6PFDA	86.0	50-200	
M3PFBS	90.6	50-200	
M7PFUnA	89.1	50-200	
M2-6:2FTS	223 *	50-200	Z-01b
M5PFPeA	173	50-200	
M5PFHxA	91.0	50-200	
M3PFHxS	99.0	50-200	
M4PFHpA	90.0	50-200	
M8PFOA	93.9	50-200	
M8PFOS	96.6	50-200	
M9PFNA	91.3	50-200	
MPFDoA	91.3	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: SS-6A (6")

Sampled: 7/26/2022 12:15

Sample ID: 22G1600-17

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	15	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
Perfluorobutanesulfonic acid (PFBS)	6.4	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
Perfluoropentanoic acid (PFPeA)	35	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
Perfluorohexanoic acid (PFHxA)	23	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
Perfluorodecanoic acid (PFDA)	1.9	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
Perfluorohexanesulfonic acid (PFHxS)	33	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
Perfluoropentanesulfonic acid (PFPeS)	3.0	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
Perfluoroheptanoic acid (PFHpA)	16	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
Perfluorooctanoic acid (PFOA)	18	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
Perfluorooctanesulfonic acid (PFOS)	68	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL
Perfluorononanoic acid (PFNA)	5.0	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 16:56	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	134	50-200	8/25/22 16:56
M2-8:2FTS	186	50-200	8/25/22 16:56
MPFBA	104	50-200	8/25/22 16:56
M3HFPO-DA	73.6	50-200	8/25/22 16:56
M6PFDA	108	50-200	8/25/22 16:56
M3PFBS	101	50-200	8/25/22 16:56
M7PFUnA	103	50-200	8/25/22 16:56
M2-6:2FTS	175	50-200	8/25/22 16:56
M5PFPeA	162	50-200	8/25/22 16:56
M5PFHxA	103	50-200	8/25/22 16:56
M3PFHxS	106	50-200	8/25/22 16:56
M4PFHpA	103	50-200	8/25/22 16:56
M8PFOA	107	50-200	8/25/22 16:56
M8PFOS	99.6	50-200	8/25/22 16:56
M9PFNA	101	50-200	8/25/22 16:56
MPFDoA	90.9	50-200	8/25/22 16:56

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: SS-6A (SW)

Sampled: 7/26/2022 12:20

Sample ID: 22G1600-18

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	16	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
Perfluorobutanesulfonic acid (PFBS)	7.1	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
Perfluoropentanoic acid (PFPeA)	36	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
Perfluorohexanoic acid (PFHxA)	23	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
Perfluorodecanoic acid (PFDA)	2.3	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
Perfluorohexanesulfonic acid (PFHxS)	33	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
Perfluoropentanesulfonic acid (PFPeS)	3.1	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
Perfluoroheptanoic acid (PFHpA)	17	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
Perfluorooctanoic acid (PFOA)	19	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
Perfluorooctanesulfonic acid (PFOS)	67	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL
Perfluorononanoic acid (PFNA)	4.2	1.8		ng/L	1		EPA 533	8/15/22	8/25/22 17:03	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	129	50-200	8/25/22 17:03
M2-8:2FTS	175	50-200	8/25/22 17:03
MPFBA	94.0	50-200	8/25/22 17:03
M3HFPO-DA	58.9	50-200	8/25/22 17:03
M6PFDA	61.3	50-200	8/25/22 17:03
M3PFBS	95.7	50-200	8/25/22 17:03
M7PFUnA	63.0	50-200	8/25/22 17:03
M2-6:2FTS	176	50-200	8/25/22 17:03
M5PFPeA	146	50-200	8/25/22 17:03
M5PFHxA	84.6	50-200	8/25/22 17:03
M3PFHxS	106	50-200	8/25/22 17:03
M4PFHpA	78.9	50-200	8/25/22 17:03
M8PFOA	71.0	50-200	8/25/22 17:03
M8PFOS	96.4	50-200	8/25/22 17:03
M9PFNA	65.6	50-200	8/25/22 17:03
MPFDoA	67.8	50-200	8/25/22 17:03

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: MC-1A (6")

Sampled: 7/26/2022 12:25

Sample ID: 22G1600-19

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	5.1	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
Perfluorobutanesulfonic acid (PFBS)	3.4	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
Perfluoropentanoic acid (PFPeA)	13	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
Perfluorohexanoic acid (PFHxA)	8.8	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
Perfluorohexanesulfonic acid (PFHxS)	4.7	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	6.3	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
Perfluoroheptanoic acid (PFHpA)	4.2	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
Perfluorooctanoic acid (PFOA)	7.4	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
Perfluorooctanesulfonic acid (PFOS)	22	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:10	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	105	50-200	8/25/22 17:10
M2-8:2FTS	153	50-200	8/25/22 17:10
MPFBA	98.8	50-200	8/25/22 17:10
M3HFPO-DA	69.6	50-200	8/25/22 17:10
M6PFDA	81.2	50-200	8/25/22 17:10
M3PFBS	92.6	50-200	8/25/22 17:10
M7PFUnA	78.3	50-200	8/25/22 17:10
M2-6:2FTS	142	50-200	8/25/22 17:10
M5PFPeA	137	50-200	8/25/22 17:10
M5PFHxA	93.5	50-200	8/25/22 17:10
M3PFHxS	101	50-200	8/25/22 17:10
M4PFHpA	90.5	50-200	8/25/22 17:10
M8PFOA	93.5	50-200	8/25/22 17:10
M8PFOS	90.7	50-200	8/25/22 17:10
M9PFNA	86.3	50-200	8/25/22 17:10
MPFDoA	78.8	50-200	8/25/22 17:10

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: MC-1A (SW)

Sampled: 7/26/2022 12:30

Sample ID: 22G1600-20

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	4.8	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
Perfluorobutanesulfonic acid (PFBS)	3.4	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
Perfluoropentanoic acid (PFPeA)	12	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
Perfluorohexanoic acid (PFHxA)	8.2	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
Perfluorohexanesulfonic acid (PFHxS)	5.1	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	5.4	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
Perfluoroheptanoic acid (PFHpA)	3.3	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
Perfluorooctanoic acid (PFOA)	6.5	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
Perfluorooctanesulfonic acid (PFOS)	19	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	8/15/22	8/25/22 17:17	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	109	50-200	8/25/22 17:17
M2-8:2FTS	193	50-200	8/25/22 17:17
MPFBA	107	50-200	8/25/22 17:17
M3HFPO-DA	81.5	50-200	8/25/22 17:17
M6PFDA	84.6	50-200	8/25/22 17:17
M3PFBS	93.6	50-200	8/25/22 17:17
M7PFUnA	84.6	50-200	8/25/22 17:17
M2-6:2FTS	158	50-200	8/25/22 17:17
M5PFPeA	155	50-200	8/25/22 17:17
M5PFHxA	98.0	50-200	8/25/22 17:17
M3PFHxS	99.5	50-200	8/25/22 17:17
M4PFHpA	96.6	50-200	8/25/22 17:17
M8PFOA	99.0	50-200	8/25/22 17:17
M8PFOS	94.7	50-200	8/25/22 17:17
M9PFNA	90.2	50-200	8/25/22 17:17
MPFDoA	82.9	50-200	8/25/22 17:17

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: MC-2A (6")

Sampled: 7/26/2022 12:45

Sample ID: 22G1600-21

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	6.7	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL
Perfluorobutanesulfonic acid (PFBS)	5.1	1.8		ng/L	1	L-05, Z-01	EPA 533	8/8/22	8/25/22 22:14	DRL
Perfluoropentanoic acid (PFPeA)	18	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL
Perfluorohexanoic acid (PFHxA)	12	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL
Perfluorohexanesulfonic acid (PFHxS)	11	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	4.0	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL
Perfluoroheptanoic acid (PFHpA)	6.3	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL
Perfluorooctanoic acid (PFOA)	9.7	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL
Perfluorooctanesulfonic acid (PFOS)	31	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL
Perfluorononanoic acid (PFNA)	1.9	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:14	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	88.6	50-200	8/25/22 22:14
M2-8:2FTS	151	50-200	8/25/22 22:14
MPFBA	75.5	50-200	8/25/22 22:14
M3HFPO-DA	58.2	50-200	8/25/22 22:14
M6PFDA	81.0	50-200	8/25/22 22:14
M3PFBS	74.7	50-200	8/25/22 22:14
M7PFUnA	78.8	50-200	8/25/22 22:14
M2-6:2FTS	146	50-200	8/25/22 22:14
M5PFPeA	103	50-200	8/25/22 22:14
M5PFHxA	71.0	50-200	8/25/22 22:14
M3PFHxS	82.5	50-200	8/25/22 22:14
M4PFHpA	73.0	50-200	8/25/22 22:14
M8PFOA	81.2	50-200	8/25/22 22:14
M8PFOS	73.1	50-200	8/25/22 22:14
M9PFNA	81.8	50-200	8/25/22 22:14
MPFDoA	76.8	50-200	8/25/22 22:14

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: MC-2A (SW)

Sampled: 7/26/2022 12:50

Sample ID: 22G1600-22

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	7.9	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL
Perfluorobutanesulfonic acid (PFBS)	5.2	1.7		ng/L	1	L-05, Z-01	EPA 533	8/8/22	8/25/22 22:21	DRL
Perfluoropentanoic acid (PFPeA)	20	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL
Perfluorohexanoic acid (PFHxA)	12	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL
Perfluorohexanesulfonic acid (PFHxS)	12	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	3.2	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL
Perfluoroheptanoic acid (PFHpA)	6.7	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL
Perfluorooctanoic acid (PFOA)	9.9	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL
Perfluorooctanesulfonic acid (PFOS)	28	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL
Perfluorononanoic acid (PFNA)	1.8	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:21	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	82.8	50-200	8/25/22 22:21
M2-8:2FTS	135	50-200	8/25/22 22:21
MPFBA	73.1	50-200	8/25/22 22:21
M3HFPO-DA	54.8	50-200	8/25/22 22:21
M6PFDA	74.2	50-200	8/25/22 22:21
M3PFBS	69.1	50-200	8/25/22 22:21
M7PFUnA	71.1	50-200	8/25/22 22:21
M2-6:2FTS	133	50-200	8/25/22 22:21
M5PFPeA	103	50-200	8/25/22 22:21
M5PFHxA	64.2	50-200	8/25/22 22:21
M3PFHxS	76.0	50-200	8/25/22 22:21
M4PFHpA	65.9	50-200	8/25/22 22:21
M8PFOA	73.6	50-200	8/25/22 22:21
M8PFOS	79.2	50-200	8/25/22 22:21
M9PFNA	80.9	50-200	8/25/22 22:21
MPFDoA	68.0	50-200	8/25/22 22:21

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: SS-3A (6")

Sampled: 7/26/2022 14:15

Sample ID: 22G1600-23

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	14	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL
Perfluorobutanesulfonic acid (PFBS)	7.1	1.8		ng/L	1	L-05, Z-01	EPA 533	8/8/22	8/25/22 22:29	DRL
Perfluoropentanoic acid (PFPeA)	30	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL
Perfluorohexanoic acid (PFHxA)	16	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL
Perfluorohexanesulfonic acid (PFHxS)	26	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.0	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL
Perfluoroheptanoic acid (PFHpA)	9.1	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL
Perfluorooctanoic acid (PFOA)	13	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL
Perfluorooctanesulfonic acid (PFOS)	57	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL
Perfluorononanoic acid (PFNA)	2.7	1.8		ng/L	1		EPA 533	8/8/22	8/25/22 22:29	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	90.4	50-200	8/25/22 22:29
M2-8:2FTS	155	50-200	8/25/22 22:29
MPFBA	73.8	50-200	8/25/22 22:29
M3HFPO-DA	55.4	50-200	8/25/22 22:29
M6PFDA	77.5	50-200	8/25/22 22:29
M3PFBS	73.4	50-200	8/25/22 22:29
M7PFUnA	76.8	50-200	8/25/22 22:29
M2-6:2FTS	129	50-200	8/25/22 22:29
M5PFPeA	90.8	50-200	8/25/22 22:29
M5PFHxA	67.4	50-200	8/25/22 22:29
M3PFHxS	79.8	50-200	8/25/22 22:29
M4PFHpA	69.8	50-200	8/25/22 22:29
M8PFOA	75.5	50-200	8/25/22 22:29
M8PFOS	79.0	50-200	8/25/22 22:29
M9PFNA	82.4	50-200	8/25/22 22:29
MPFDoA	73.9	50-200	8/25/22 22:29

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: SS-3A (SW)

Sampled: 7/26/2022 14:20

Sample ID: 22G1600-24

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	15	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL
Perfluorobutanesulfonic acid (PFBS)	7.4	1.7		ng/L	1	L-05, Z-01	EPA 533	8/8/22	8/25/22 22:36	DRL
Perfluoropentanoic acid (PFPeA)	30	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL
Perfluorohexanoic acid (PFHxA)	16	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL
Perfluorohexanesulfonic acid (PFHxS)	28	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	2.0	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.1	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL
Perfluoroheptanoic acid (PFHpA)	9.6	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL
Perfluorooctanoic acid (PFOA)	12	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL
Perfluorooctanesulfonic acid (PFOS)	54	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL
Perfluorononanoic acid (PFNA)	2.8	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:36	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	82.0	50-200	
M2-8:2FTS	143	50-200	
MPFBA	67.5	50-200	
M3HFPO-DA	49.9 *	50-200	Z-01b
M6PFDA	62.7	50-200	
M3PFBS	70.3	50-200	
M7PFUnA	64.2	50-200	
M2-6:2FTS	116	50-200	
M5PFPeA	80.5	50-200	
M5PFHxA	58.3	50-200	
M3PFHxS	73.9	50-200	
M4PFHpA	59.6	50-200	
M8PFOA	68.1	50-200	
M8PFOS	72.5	50-200	
M9PFNA	69.7	50-200	
MPFDoA	63.7	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: SS-2A (6")

Sampled: 7/26/2022 14:30

Sample ID: 22G1600-25

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	14	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL
Perfluorobutanesulfonic acid (PFBS)	5.7	1.7		ng/L	1	L-05, Z-01	EPA 533	8/8/22	8/25/22 22:43	DRL
Perfluoropentanoic acid (PFPeA)	32	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL
Perfluorohexanoic acid (PFHxA)	18	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL
Perfluorohexanesulfonic acid (PFHxS)	32	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.7	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL
Perfluoroheptanoic acid (PFHpA)	10	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL
Perfluorooctanoic acid (PFOA)	12	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL
Perfluorooctanesulfonic acid (PFOS)	46	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL
Perfluorononanoic acid (PFNA)	2.2	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:43	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	70.3	50-200	8/25/22 22:43
M2-8:2FTS	119	50-200	8/25/22 22:43
MPFBA	66.1	50-200	8/25/22 22:43
M3HFPO-DA	61.2	50-200	8/25/22 22:43
M6PFDA	72.9	50-200	8/25/22 22:43
M3PFBS	66.3	50-200	8/25/22 22:43
M7PFUnA	68.3	50-200	8/25/22 22:43
M2-6:2FTS	87.1	50-200	8/25/22 22:43
M5PFPeA	85.7	50-200	8/25/22 22:43
M5PFHxA	69.2	50-200	8/25/22 22:43
M3PFHxS	62.2	50-200	8/25/22 22:43
M4PFHpA	68.8	50-200	8/25/22 22:43
M8PFOA	68.5	50-200	8/25/22 22:43
M8PFOS	60.7	50-200	8/25/22 22:43
M9PFNA	73.9	50-200	8/25/22 22:43
MPFDoA	60.7	50-200	8/25/22 22:43

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: SS-2A (SW)

Sampled: 7/26/2022 14:35

Sample ID: 22G1600-26

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	15	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL
Perfluorobutanesulfonic acid (PFBS)	5.9	1.7		ng/L	1	L-05, Z-01	EPA 533	8/8/22	8/25/22 22:50	DRL
Perfluoropentanoic acid (PFPeA)	32	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL
Perfluorohexanoic acid (PFHxA)	18	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL
Perfluorohexanesulfonic acid (PFHxS)	33	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL
Perfluoropentanesulfonic acid (PFPeS)	2.8	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL
Perfluoroheptanoic acid (PFHpA)	11	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL
Perfluorooctanoic acid (PFOA)	13	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL
Perfluorooctanesulfonic acid (PFOS)	41	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL
Perfluorononanoic acid (PFNA)	2.2	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:50	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	80.9	50-200	8/25/22 22:50
M2-8:2FTS	134	50-200	8/25/22 22:50
MPFBA	68.3	50-200	8/25/22 22:50
M3HFPO-DA	66.6	50-200	8/25/22 22:50
M6PFDA	72.8	50-200	8/25/22 22:50
M3PFBS	73.8	50-200	8/25/22 22:50
M7PFUnA	75.1	50-200	8/25/22 22:50
M2-6:2FTS	113	50-200	8/25/22 22:50
M5PFPeA	88.0	50-200	8/25/22 22:50
M5PFHxA	70.2	50-200	8/25/22 22:50
M3PFHxS	70.5	50-200	8/25/22 22:50
M4PFHpA	68.0	50-200	8/25/22 22:50
M8PFOA	69.2	50-200	8/25/22 22:50
M8PFOS	78.0	50-200	8/25/22 22:50
M9PFNA	75.2	50-200	8/25/22 22:50
MPFDoA	75.7	50-200	8/25/22 22:50

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: SS-1A (6")

Sampled: 7/26/2022 14:45

Sample ID: 22G1600-27

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	12	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL
Perfluorobutanesulfonic acid (PFBS)	7.5	1.7		ng/L	1	L-05, Z-01	EPA 533	8/8/22	8/25/22 22:57	DRL
Perfluoropentanoic acid (PFPeA)	37	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL
Perfluorohexanoic acid (PFHxA)	24	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL
Perfluoroheptanesulfonic acid (PFHpS)	1.7	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL
Perfluorohexanesulfonic acid (PFHxS)	29	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	3.2	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL
Perfluoropentanesulfonic acid (PFPeS)	3.2	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL
Perfluoroheptanoic acid (PFHpA)	9.9	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL
Perfluorooctanoic acid (PFOA)	8.2	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL
Perfluorooctanesulfonic acid (PFOS)	29	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 22:57	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	103	50-200	8/25/22 22:57
M2-8:2FTS	153	50-200	8/25/22 22:57
MPFBA	72.3	50-200	8/25/22 22:57
M3HFPO-DA	64.1	50-200	8/25/22 22:57
M6PFDA	74.8	50-200	8/25/22 22:57
M3PFBS	79.4	50-200	8/25/22 22:57
M7PFUnA	70.6	50-200	8/25/22 22:57
M2-6:2FTS	130	50-200	8/25/22 22:57
M5PFPeA	100	50-200	8/25/22 22:57
M5PFHxA	74.8	50-200	8/25/22 22:57
M3PFHxS	72.8	50-200	8/25/22 22:57
M4PFHpA	72.0	50-200	8/25/22 22:57
M8PFOA	73.6	50-200	8/25/22 22:57
M8PFOS	77.2	50-200	8/25/22 22:57
M9PFNA	71.4	50-200	8/25/22 22:57
MPFDoA	68.2	50-200	8/25/22 22:57

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: SS-1A (SW)

Sampled: 7/26/2022 14:50

Sample ID: 22G1600-28

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	11	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL
Perfluorobutanesulfonic acid (PFBS)	6.9	1.7		ng/L	1	L-05, Z-01	EPA 533	8/8/22	8/25/22 23:05	DRL
Perfluoropentanoic acid (PFPeA)	35	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL
Perfluorohexanoic acid (PFHxA)	23	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL
Perfluorohexanesulfonic acid (PFHxS)	29	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	3.1	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL
Perfluoropentanesulfonic acid (PFPeS)	3.0	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL
Perfluoroheptanoic acid (PFHpA)	9.4	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL
Perfluorooctanoic acid (PFOA)	8.1	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL
Perfluorooctanesulfonic acid (PFOS)	28	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:05	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	101	50-200	8/25/22 23:05
M2-8:2FTS	156	50-200	8/25/22 23:05
MPFBA	75.7	50-200	8/25/22 23:05
M3HFPO-DA	57.6	50-200	8/25/22 23:05
M6PFDA	82.7	50-200	8/25/22 23:05
M3PFBS	78.0	50-200	8/25/22 23:05
M7PFUnA	85.4	50-200	8/25/22 23:05
M2-6:2FTS	142	50-200	8/25/22 23:05
M5PFPeA	105	50-200	8/25/22 23:05
M5PFHxA	78.5	50-200	8/25/22 23:05
M3PFHxS	71.0	50-200	8/25/22 23:05
M4PFHpA	76.7	50-200	8/25/22 23:05
M8PFOA	75.4	50-200	8/25/22 23:05
M8PFOS	71.6	50-200	8/25/22 23:05
M9PFNA	78.8	50-200	8/25/22 23:05
MPFDoA	81.0	50-200	8/25/22 23:05

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: ML-1A-M

Sampled: 7/27/2022 07:30

Sample ID: 22G1600-29

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	3.4	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL
Perfluorobutanesulfonic acid (PFBS)	4.7	1.7		ng/L	1	L-05, Z-01	EPA 533	8/8/22	8/25/22 23:12	DRL
Perfluoropentanoic acid (PFPeA)	4.4	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL
Perfluorohexanoic acid (PFHxA)	4.0	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL
Perfluorohexanesulfonic acid (PFHxS)	4.2	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL
Perfluoroheptanoic acid (PFHpA)	3.3	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL
Perfluorooctanoic acid (PFOA)	7.0	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL
Perfluorooctanesulfonic acid (PFOS)	12	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL
Perfluorononanoic acid (PFNA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:12	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	93.2	50-200	8/25/22 23:12
M2-8:2FTS	134	50-200	8/25/22 23:12
MPFBA	76.9	50-200	8/25/22 23:12
M3HFPO-DA	67.5	50-200	8/25/22 23:12
M6PFDA	79.2	50-200	8/25/22 23:12
M3PFBS	74.9	50-200	8/25/22 23:12
M7PFUnA	72.7	50-200	8/25/22 23:12
M2-6:2FTS	120	50-200	8/25/22 23:12
M5PFPeA	114	50-200	8/25/22 23:12
M5PFHxA	76.7	50-200	8/25/22 23:12
M3PFHxS	72.0	50-200	8/25/22 23:12
M4PFHpA	76.5	50-200	8/25/22 23:12
M8PFOA	73.9	50-200	8/25/22 23:12
M8PFOS	70.1	50-200	8/25/22 23:12
M9PFNA	77.3	50-200	8/25/22 23:12
MPFDoA	70.0	50-200	8/25/22 23:12

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: WL-3A-B

Sampled: 7/27/2022 08:20

Sample ID: 22G1600-30

Sample Matrix: Drinking Water

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
Perfluorobutanoic acid (PFBA)	12	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL
Perfluorobutanesulfonic acid (PFBS)	4.2	1.7		ng/L	1	L-05, Z-01	EPA 533	8/8/22	8/25/22 23:26	DRL
Perfluoropentanoic acid (PFPeA)	31	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL
Perfluorohexanoic acid (PFHxA)	22	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL
Perfluorohexanesulfonic acid (PFHxS)	14	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL
Perfluoropentanesulfonic acid (PFPeS)	1.7	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL
Perfluoroheptanoic acid (PFHpA)	9.9	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL
Perfluorooctanoic acid (PFOA)	9.8	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL
Perfluorooctanesulfonic acid (PFOS)	40	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL
Perfluorononanoic acid (PFNA)	2.5	1.7		ng/L	1		EPA 533	8/8/22	8/25/22 23:26	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	85.8	50-200	8/25/22 23:26
M2-8:2FTS	152	50-200	8/25/22 23:26
MPFBA	78.4	50-200	8/25/22 23:26
M3HFPO-DA	65.3	50-200	8/25/22 23:26
M6PFDA	76.6	50-200	8/25/22 23:26
M3PFBS	75.8	50-200	8/25/22 23:26
M7PFUnA	71.1	50-200	8/25/22 23:26
M2-6:2FTS	105	50-200	8/25/22 23:26
M5PFPeA	112	50-200	8/25/22 23:26
M5PFHxA	71.0	50-200	8/25/22 23:26
M3PFHxS	77.0	50-200	8/25/22 23:26
M4PFHpA	71.1	50-200	8/25/22 23:26
M8PFOA	75.8	50-200	8/25/22 23:26
M8PFOS	74.5	50-200	8/25/22 23:26
M9PFNA	75.9	50-200	8/25/22 23:26
MPFDoA	67.3	50-200	8/25/22 23:26

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: WL-3A-T

Sampled: 7/27/2022 08:25

Sample ID: 22G1600-31

Sample Matrix: Drinking Water

Sample Flags: Z-01a

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
Perfluorobutanoic acid (PFBA)	12	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL
Perfluorobutanesulfonic acid (PFBS)	2.7	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL
Perfluoropentanoic acid (PFPeA)	29	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL
Perfluorohexanoic acid (PFHxA)	21	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL
Perfluorohexanesulfonic acid (PFHxS)	13	1.7		ng/L	1	B	EPA 533	8/10/22	9/3/22 19:24	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL
Perfluoropentanesulfonic acid (PFPeS)	1.7	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL
Perfluoroheptanoic acid (PFHpA)	9.3	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL
Perfluorooctanoic acid (PFOA)	9.3	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL
Perfluorooctanesulfonic acid (PFOS)	32	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL
Perfluorononanoic acid (PFNA)	2.4	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:24	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	120	50-200	
M2-8:2FTS	189	50-200	
MPFBA	126	50-200	
M3HFPO-DA	107	50-200	
M6PFDA	114	50-200	
M3PFBS	130	50-200	
M7PFUnA	114	50-200	
M2-6:2FTS	204	50-200	PF-17
M5PFPeA	200	50-200	
M5PFHxA	112	50-200	
M3PFHxS	139	50-200	
M4PFHpA	114	50-200	
M8PFOA	128	50-200	
M8PFOS	139	50-200	
M9PFNA	116	50-200	
MPFDoA	110	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: WL-4A-M

Sampled: 7/27/2022 08:05

Sample ID: 22G1600-32

Sample Matrix: Drinking Water

Sample Flags: Z-01a

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
Perfluorobutanoic acid (PFBA)	12	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL
Perfluorobutanesulfonic acid (PFBS)	2.7	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL
Perfluoropentanoic acid (PFPeA)	28	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL
Perfluorohexanoic acid (PFHxA)	20	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL
Perfluorohexanesulfonic acid (PFHxS)	13	1.8		ng/L	1	B	EPA 533	8/10/22	9/3/22 19:32	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL
Perfluoroheptanoic acid (PFHpA)	8.3	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL
Perfluorooctanoic acid (PFOA)	9.0	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL
Perfluorooctanesulfonic acid (PFOS)	32	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL
Perfluorononanoic acid (PFNA)	2.3	1.8		ng/L	1		EPA 533	8/10/22	9/3/22 19:32	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	144	50-200		9/3/22 19:32
M2-8:2FTS	243 *	50-200	PF-17	9/3/22 19:32
MPFBA	140	50-200		9/3/22 19:32
M3HFPO-DA	112	50-200		9/3/22 19:32
M6PFDA	132	50-200		9/3/22 19:32
M3PFBS	154	50-200		9/3/22 19:32
M7PFUnA	141	50-200		9/3/22 19:32
M2-6:2FTS	247 *	50-200	PF-17	9/3/22 19:32
M5PFPeA	239 *	50-200	Z-01b	9/3/22 19:32
M5PFHxA	125	50-200		9/3/22 19:32
M3PFHxS	160	50-200		9/3/22 19:32
M4PFHpA	122	50-200		9/3/22 19:32
M8PFOA	131	50-200		9/3/22 19:32
M8PFOS	153	50-200		9/3/22 19:32
M9PFNA	124	50-200		9/3/22 19:32
MPFDoA	135	50-200		9/3/22 19:32

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: WL-2A-M

Sampled: 7/27/2022 08:45

Sample ID: 22G1600-33

Sample Matrix: Drinking Water

Sample Flags: Z-01a

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
Perfluorobutanoic acid (PFBA)	13	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL
Perfluorobutanesulfonic acid (PFBS)	2.9	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL
Perfluoropentanoic acid (PFPeA)	31	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL
Perfluorohexanoic acid (PFHxA)	22	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL
Perfluorohexanesulfonic acid (PFHxS)	15	1.7		ng/L	1	B	EPA 533	8/10/22	9/3/22 19:39	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL
Perfluoropentanesulfonic acid (PFPeS)	1.9	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL
Perfluoroheptanoic acid (PFHpA)	9.3	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL
Perfluorooctanoic acid (PFOA)	9.9	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL
Perfluorooctanesulfonic acid (PFOS)	35	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL
Perfluorononanoic acid (PFNA)	2.7	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:39	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	141	50-200	
M2-8:2FTS	224 *	50-200	PF-17
MPFBA	143	50-200	
M3HFPO-DA	119	50-200	
M6PFDA	129	50-200	
M3PFBS	150	50-200	
M7PFUnA	132	50-200	
M2-6:2FTS	236 *	50-200	PF-17
M5PFPeA	244 *	50-200	Z-01b
M5PFHxA	133	50-200	
M3PFHxS	154	50-200	
M4PFHpA	131	50-200	
M8PFOA	142	50-200	
M8PFOS	156	50-200	
M9PFNA	129	50-200	
MPFDoA	129	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: WL-6A-B

Sampled: 7/27/2022 10:15

Sample ID: 22G1600-34

Sample Matrix: Drinking Water

Sample Flags: Z-01a

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
Perfluorobutanoic acid (PFBA)	11	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL
Perfluorobutanesulfonic acid (PFBS)	2.7	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL
Perfluoropentanoic acid (PFPeA)	29	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL
Perfluorohexanoic acid (PFHxA)	22	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL
Perfluorohexanesulfonic acid (PFHxS)	14	1.7		ng/L	1	B	EPA 533	8/10/22	9/3/22 19:46	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL
Perfluoropentanesulfonic acid (PFPeS)	1.9	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL
Perfluoroheptanoic acid (PFHpA)	9.0	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL
Perfluorooctanoic acid (PFOA)	11	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL
Perfluorooctanesulfonic acid (PFOS)	43	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL
Perfluorononanoic acid (PFNA)	2.6	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 19:46	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	140	50-200	
M2-8:2FTS	214 *	50-200	PF-17
MPFBA	138	50-200	
M3HFPO-DA	107	50-200	
M6PFDA	125	50-200	
M3PFBS	156	50-200	
M7PFUnA	128	50-200	
M2-6:2FTS	210 *	50-200	PF-17
M5PFPeA	225 *	50-200	Z-01b
M5PFHxA	128	50-200	
M3PFHxS	158	50-200	
M4PFHpA	124	50-200	
M8PFOA	132	50-200	
M8PFOS	143	50-200	
M9PFNA	116	50-200	
MPFDoA	123	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: WL-6A-M

Sampled: 7/27/2022 10:20

Sample ID: 22G1600-35

Sample Matrix: Drinking Water

Sample Flags: Z-01a

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
Perfluorobutanoic acid (PFBA)	12	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL
Perfluorobutanesulfonic acid (PFBS)	2.9	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL
Perfluoropentanoic acid (PFPeA)	30	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL
Perfluorohexanoic acid (PFHxA)	22	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL
Perfluorohexanesulfonic acid (PFHxS)	15	1.7		ng/L	1	B	EPA 533	8/10/22	9/3/22 20:01	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL
Perfluoropentanesulfonic acid (PFPeS)	1.8	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL
Perfluoroheptanoic acid (PFHpA)	9.1	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL
Perfluorooctanoic acid (PFOA)	10	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL
Perfluorooctanesulfonic acid (PFOS)	42	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL
Perfluorononanoic acid (PFNA)	2.6	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:01	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	123	50-200	
M2-8:2FTS	209 *	50-200	PF-17
MPFBA	140	50-200	
M3HFPO-DA	107	50-200	
M6PFDA	133	50-200	
M3PFBS	123	50-200	
M7PFUnA	131	50-200	
M2-6:2FTS	218 *	50-200	PF-17
M5PFPeA	217 *	50-200	Z-01b
M5PFHxA	116	50-200	
M3PFHxS	136	50-200	
M4PFHpA	120	50-200	
M8PFOA	136	50-200	
M8PFOS	130	50-200	
M9PFNA	127	50-200	
MPFDoA	124	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: WL-6A-T

Sampled: 7/27/2022 10:25

Sample ID: 22G1600-36

Sample Matrix: Drinking Water

Sample Flags: Z-01a

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
Perfluorobutanoic acid (PFBA)	12	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL
Perfluorobutanesulfonic acid (PFBS)	2.7	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL
Perfluoropentanoic acid (PFPeA)	29	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL
Perfluorohexanoic acid (PFHxA)	20	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL
Perfluorohexanesulfonic acid (PFHxS)	13	1.7		ng/L	1	B	EPA 533	8/10/22	9/3/22 20:08	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL
Perfluoroheptanoic acid (PFHpA)	8.3	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL
Perfluorooctanoic acid (PFOA)	9.5	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL
Perfluorooctanesulfonic acid (PFOS)	33	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL
Perfluorononanoic acid (PFNA)	2.4	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:08	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	122	50-200	
M2-8:2FTS	198	50-200	
MPFBA	138	50-200	
M3HFPO-DA	112	50-200	
M6PFDA	122	50-200	
M3PFBS	129	50-200	
M7PFUnA	126	50-200	
M2-6:2FTS	219 *	50-200	PF-17
M5PFPeA	208 *	50-200	Z-01b
M5PFHxA	119	50-200	
M3PFHxS	142	50-200	
M4PFHpA	123	50-200	
M8PFOA	139	50-200	
M8PFOS	143	50-200	
M9PFNA	126	50-200	
MPFDoA	127	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: WL-5A-B

Sampled: 7/27/2022 10:40

Sample ID: 22G1600-37

Sample Matrix: Drinking Water

Sample Flags: Z-01a

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
Perfluorobutanoic acid (PFBA)	12	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL
Perfluorobutanesulfonic acid (PFBS)	2.8	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL
Perfluoropentanoic acid (PFPeA)	30	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL
Perfluorohexanoic acid (PFHxA)	21	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL
Perfluorohexanesulfonic acid (PFHxS)	16	1.7		ng/L	1	B	EPA 533	8/10/22	9/3/22 20:15	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL
Perfluoropetanesulfonic acid (PFPeS)	1.8	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL
Perfluoroheptanoic acid (PFHpA)	9.1	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL
Perfluorooctanoic acid (PFOA)	11	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL
Perfluorooctanesulfonic acid (PFOS)	43	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL
Perfluorononanoic acid (PFNA)	2.8	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:15	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	161	50-200	
M2-8:2FTS	264 *	50-200	PF-17
MPFBA	162	50-200	
M3HFPO-DA	130	50-200	
M6PFDA	150	50-200	
M3PFBS	171	50-200	
M7PFUnA	151	50-200	
M2-6:2FTS	283 *	50-200	PF-17
M5PFPeA	257 *	50-200	Z-01b
M5PFHxA	141	50-200	
M3PFHxS	186	50-200	
M4PFHpA	145	50-200	
M8PFOA	163	50-200	
M8PFOS	174	50-200	
M9PFNA	146	50-200	
MPFDoA	146	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: WL-5A-M

Sampled: 7/27/2022 10:45

Sample ID: 22G1600-38

Sample Matrix: Drinking Water

Sample Flags: Z-01a

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
Perfluorobutanoic acid (PFBA)	12	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL
Perfluorobutanesulfonic acid (PFBS)	2.7	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL
Perfluoropentanoic acid (PFPeA)	30	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL
Perfluorohexanoic acid (PFHxA)	21	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL
Perfluorohexanesulfonic acid (PFHxS)	14	1.7		ng/L	1	B	EPA 533	8/10/22	9/3/22 20:22	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL
Perfluoropentanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL
Perfluoroheptanoic acid (PFHpA)	8.8	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL
Perfluorooctanoic acid (PFOA)	10	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL
Perfluorooctanesulfonic acid (PFOS)	39	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL
Perfluorononanoic acid (PFNA)	2.6	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:22	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	150	50-200	
M2-8:2FTS	250 *	50-200	PF-17
MPFBA	165	50-200	
M3HFPO-DA	112	50-200	
M6PFDA	148	50-200	
M3PFBS	160	50-200	
M7PFUnA	145	50-200	
M2-6:2FTS	270 *	50-200	PF-17
M5PFPeA	264 *	50-200	Z-01b
M5PFHxA	142	50-200	
M3PFHxS	173	50-200	
M4PFHpA	143	50-200	
M8PFOA	153	50-200	
M8PFOS	163	50-200	
M9PFNA	139	50-200	
MPFDoA	135	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: WL-5A-T

Sampled: 7/27/2022 10:50

Sample ID: 22G1600-39

Sample Matrix: Drinking Water

Sample Flags: Z-01a

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
Perfluorobutanoic acid (PFBA)	12	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL
Perfluorobutanesulfonic acid (PFBS)	2.6	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL
Perfluoropentanoic acid (PFPeA)	28	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL
Perfluorohexanoic acid (PFHxA)	20	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL
Perfluorohexanesulfonic acid (PFHxS)	12	1.7		ng/L	1	B	EPA 533	8/10/22	9/3/22 20:30	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL
Perfluoroheptanoic acid (PFHpA)	8.3	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL
Perfluorooctanoic acid (PFOA)	8.5	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL
Perfluorooctanesulfonic acid (PFOS)	30	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL
Perfluorononanoic acid (PFNA)	2.4	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:30	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
M2-4:2FTS	218 *	50-200	PF-17	9/3/22 20:30
M2-8:2FTS	339 *	50-200	PF-17	9/3/22 20:30
MPFBA	236 *	50-200	Z-01b	9/3/22 20:30
M3HFPO-DA	162	50-200		9/3/22 20:30
M6PFDA	202 *	50-200	Z-01b	9/3/22 20:30
M3PFBS	234 *	50-200	Z-01b	9/3/22 20:30
M7PFUnA	209 *	50-200	PF-17	9/3/22 20:30
M2-6:2FTS	372 *	50-200	PF-17	9/3/22 20:30
M5PFPeA	371 *	50-200	Z-01b	9/3/22 20:30
M5PFHxA	217 *	50-200	Z-01b	9/3/22 20:30
M3PFHxS	250 *	50-200	Z-01b	9/3/22 20:30
M4PFHpA	215 *	50-200	Z-01b	9/3/22 20:30
M8PFOA	245 *	50-200	Z-01b	9/3/22 20:30
M8PFOS	240 *	50-200	Z-01b	9/3/22 20:30
M9PFNA	204 *	50-200	Z-01b	9/3/22 20:30
MPFDoA	206 *	50-200	PF-17	9/3/22 20:30

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: WL-1A-B

Sampled: 7/27/2022 08:55

Sample ID: 22G1600-40

Sample Matrix: Drinking Water

Sample Flags: Z-01a

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
Perfluorobutanoic acid (PFBA)	12	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL
Perfluorobutanesulfonic acid (PFBS)	2.8	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL
Perfluoropentanoic acid (PFPeA)	27	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL
Perfluorohexanoic acid (PFHxA)	21	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL
Perfluorohexanesulfonic acid (PFHxS)	13	1.7		ng/L	1	B	EPA 533	8/10/22	9/3/22 20:37	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL
Perfluoropetanesulfonic acid (PFPeS)	1.8	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL
Perfluoroheptanoic acid (PFHpA)	8.6	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL
Perfluorooctanoic acid (PFOA)	8.8	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL
Perfluorooctanesulfonic acid (PFOS)	33	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL
Perfluorononanoic acid (PFNA)	2.4	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:37	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	135	50-200	
M2-8:2FTS	220 *	50-200	PF-17
MPFBA	155	50-200	
M3HFPO-DA	124	50-200	
M6PFDA	142	50-200	
M3PFBS	154	50-200	
M7PFUnA	142	50-200	
M2-6:2FTS	222 *	50-200	PF-17
M5PFPeA	268 *	50-200	Z-01b
M5PFHxA	138	50-200	
M3PFHxS	158	50-200	
M4PFHpA	136	50-200	
M8PFOA	155	50-200	
M8PFOS	148	50-200	
M9PFNA	137	50-200	
MPFDoA	133	50-200	

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

Project Location: Newburgh, NY

Sample Description:

Work Order: 22G1600

Date Received: 7/28/2022

Field Sample #: WL-1A-T

Sampled: 7/27/2022 09:00

Sample ID: 22G1600-41

Sample Matrix: Drinking Water

Sample Flags: Z-01a

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
Perfluorobutanoic acid (PFBA)	12	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL
Perfluorobutanesulfonic acid (PFBS)	2.6	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL
Perfluoropentanoic acid (PFPeA)	26	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL
Perfluorohexanoic acid (PFHxA)	19	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL
11Cl-PF3OUdS (F53B Major)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL
9Cl-PF3ONS (F53B Minor)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL
Perfluorodecanoic acid (PFDA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL
Perfluorododecanoic acid (PFDoA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL
Perfluorohexanesulfonic acid (PFHxS)	13	1.7		ng/L	1	B	EPA 533	8/10/22	9/3/22 20:44	DRL
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL
Perfluoropetanesulfonic acid (PFPeS)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL
Perfluoroundecanoic acid (PFUnA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL
Perfluoroheptanoic acid (PFHpA)	7.7	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL
Perfluorooctanoic acid (PFOA)	8.9	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL
Perfluorooctanesulfonic acid (PFOS)	32	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL
Perfluorononanoic acid (PFNA)	2.4	1.7		ng/L	1		EPA 533	8/10/22	9/3/22 20:44	DRL

Surrogates	% Recovery	Recovery Limits	Flag/Qual
M2-4:2FTS	133	50-200	
M2-8:2FTS	197	50-200	
MPFBA	151	50-200	
M3HFPO-DA	115	50-200	
M6PFDA	134	50-200	
M3PFBS	157	50-200	
M7PFUnA	140	50-200	
M2-6:2FTS	209 *	50-200	PF-17
M5PFPeA	250 *	50-200	Z-01b
M5PFHxA	138	50-200	
M3PFHxS	154	50-200	
M4PFHpA	132	50-200	
M8PFOA	144	50-200	
M8PFOS	149	50-200	
M9PFNA	125	50-200	
MPFDoA	129	50-200	

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

Sample Extraction Data**Prep Method: EPA 533-EPA 533**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22G1600-01 [MC-4A (6")]	B314226	284	1.00	08/15/22
22G1600-02 [MC-4A (SW)]	B314226	286	1.00	08/15/22
22G1600-03 [MC-3A (6")]	B314226	287	1.00	08/15/22
22G1600-04 [MC-3A (SW)]	B314226	281	1.00	08/15/22
22G1600-05 [RP-1A (6")]	B314226	286	1.00	08/15/22
22G1600-06 [RP-1A (SW)]	B314226	285	1.00	08/15/22
22G1600-07 [RP-2A (6")]	B314226	289	1.00	08/15/22
22G1600-08 [RP-2A (SW)]	B314226	288	1.00	08/15/22
22G1600-09 [RPT-1A (6")]	B314226	282	1.00	08/15/22
22G1600-10 [RPT-1A (SW)]	B314226	282	1.00	08/15/22
22G1600-11 [ML-3A (6")]	B314226	291	1.00	08/15/22
22G1600-12 [ML-3A (SW)]	B314226	291	1.00	08/15/22
22G1600-13 [ML-2A (6")]	B314226	285	1.00	08/15/22
22G1600-14 [ML-2A (SW)]	B314226	287	1.00	08/15/22
22G1600-15 [SS-5A (6")]	B314226	287	1.00	08/15/22
22G1600-16 [SS-5A (SW)]	B314226	283	1.00	08/15/22
22G1600-17 [SS-6A (6")]	B314226	284	1.00	08/15/22
22G1600-18 [SS-6A (SW)]	B314226	286	1.00	08/15/22
22G1600-19 [MC-1A (6")]	B314226	286	1.00	08/15/22
22G1600-20 [MC-1A (SW)]	B314226	286	1.00	08/15/22

Prep Method: EPA 533-EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22G1600-21 [MC-2A (6")]	B314650	283	1.00	08/08/22
22G1600-22 [MC-2A (SW)]	B314650	295	1.00	08/08/22
22G1600-23 [SS-3A (6")]	B314650	282	1.00	08/08/22
22G1600-24 [SS-3A (SW)]	B314650	289	1.00	08/08/22
22G1600-25 [SS-2A (6")]	B314650	291	1.00	08/08/22
22G1600-26 [SS-2A (SW)]	B314650	291	1.00	08/08/22
22G1600-27 [SS-1A (6")]	B314650	286	1.00	08/08/22
22G1600-28 [SS-1A (SW)]	B314650	290	1.00	08/08/22
22G1600-29 [ML-1A-M]	B314650	294	1.00	08/08/22
22G1600-30 [WL-3A-B]	B314650	291	1.00	08/08/22

Prep Method: EPA 533-EPA 533

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22G1600-31 [WL-3A-T]	B314692	292	1.00	08/10/22
22G1600-32 [WL-4A-M]	B314692	282	1.00	08/10/22
22G1600-33 [WL-2A-M]	B314692	290	1.00	08/10/22
22G1600-34 [WL-6A-B]	B314692	286	1.00	08/10/22
22G1600-35 [WL-6A-M]	B314692	288	1.00	08/10/22
22G1600-36 [WL-6A-T]	B314692	292	1.00	08/10/22
22G1600-37 [WL-5A-B]	B314692	288	1.00	08/10/22
22G1600-38 [WL-5A-M]	B314692	297	1.00	08/10/22
22G1600-39 [WL-5A-T]	B314692	291	1.00	08/10/22
22G1600-40 [WL-1A-B]	B314692	286	1.00	08/10/22
22G1600-41 [WL-1A-T]	B314692	298	1.00	08/10/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**Sample Extraction Data****Prep Method: EPA 533-EPA 533**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22G1600-05RE1 [RP-1A (6")]	B316009	25.0	1.00	08/31/22
22G1600-06RE1 [RP-1A (SW)]	B316009	25.0	1.00	08/31/22
22G1600-07RE1 [RP-2A (6")]	B316009	25.0	1.00	08/31/22
22G1600-08RE1 [RP-2A (SW)]	B316009	25.0	1.00	08/31/22

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B314226 - EPA 533
Blank (B314226-BLK1)

Prepared: 08/15/22 Analyzed: 08/25/22

Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L							
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L							
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L							
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L							

Surrogate: M2-4:2FTS	28.5			ng/L	33.3		85.5	50-200			
Surrogate: M2-8:2FTS	82.3			ng/L	34.1		241	*	50-200		S-29
Surrogate: MPFBA	34.3			ng/L	35.5		96.5	50-200			
Surrogate: M3HFPO-DA	22.4			ng/L	35.5		63.1	50-200			
Surrogate: M6PFDA	39.5			ng/L	35.5		111	50-200			
Surrogate: M3PFBS	32.5			ng/L	33.1		98.3	50-200			
Surrogate: M7PFUnA	38.7			ng/L	35.5		109	50-200			
Surrogate: M2-6:2FTS	38.0			ng/L	33.8		112	50-200			
Surrogate: M5PFPeA	33.3			ng/L	35.5		93.6	50-200			
Surrogate: M5PFHxA	32.5			ng/L	35.5		91.5	50-200			
Surrogate: M3PFHxS	36.3			ng/L	33.7		108	50-200			
Surrogate: M4PFHpA	33.8			ng/L	35.5		95.1	50-200			
Surrogate: M8PFOA	37.3			ng/L	35.5		105	50-200			
Surrogate: M8PFOS	36.1			ng/L	34.1		106	50-200			
Surrogate: M9PFNA	40.8			ng/L	35.5		115	50-200			
Surrogate: MPFDoA	39.7			ng/L	35.5		112	50-200			

LCS (B314226-BS1)

Prepared: 08/15/22 Analyzed: 08/25/22

Perfluorobutanoic acid (PFBA)	1.46	1.8		ng/L	1.81		81.0	50-150			
Perfluorobutanesulfonic acid (PFBS)	1.35	1.8		ng/L	1.60		84.4	50-150			
Perfluoropentanoic acid (PFPeA)	1.72	1.8		ng/L	1.81		95.1	50-150			
Perfluorohexanoic acid (PFHxA)	1.62	1.8		ng/L	1.81		89.9	50-150			
11Cl-PF3OUdS (F53B Major)	1.36	1.8		ng/L	1.70		79.7	50-150			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B314226 - EPA 533
LCS (B314226-BS1)

Prepared: 08/15/22 Analyzed: 08/25/22

9Cl-PF3ONS (F53B Minor)	1.42	1.8		ng/L	1.69		84.2	50-150			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.61	1.8		ng/L	1.70		94.4	50-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.93	1.8		ng/L	1.81		107	50-150			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.87	1.8		ng/L	1.74		108	50-150			
Perfluorodecanoic acid (PFDA)	1.69	1.8		ng/L	1.81		93.5	50-150			
Perfluorododecanoic acid (PFDoA)	1.77	1.8		ng/L	1.81		98.1	50-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	1.13	1.8		ng/L	1.61		70.2	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.91	1.8		ng/L	1.73		111	50-150			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.56	1.8		ng/L	1.69		92.4	50-150			
Perfluorohexanesulfonic acid (PFHxS)	1.54	1.8		ng/L	1.65		93.0	50-150			
Perfluoro-4-oxapentanoic acid (PFMPA)	1.60	1.8		ng/L	1.81		88.5	50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.49	1.8		ng/L	1.81		82.5	50-150			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.62	1.8		ng/L	1.72		94.6	50-150			
Perfluoropentanesulfonic acid (PFPeS)	1.38	1.8		ng/L	1.70		81.2	50-150			
Perfluoroundecanoic acid (PFUnA)	1.53	1.8		ng/L	1.81		84.6	50-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.17	1.8		ng/L	1.81		64.9	50-150			
Perfluoroheptanoic acid (PFHpA)	1.71	1.8		ng/L	1.81		94.5	50-150			
Perfluorooctanoic acid (PFOA)	1.94	1.8		ng/L	1.81		107	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.38	1.8		ng/L	1.67		82.8	50-150			
Perfluorononanoic acid (PFNA)	1.45	1.8		ng/L	1.81		80.0	50-150			
Surrogate: M2-4:2FTS	34.4			ng/L	33.9		101	50-200			
Surrogate: M2-8:2FTS	62.0			ng/L	34.7		179	50-200			
Surrogate: MPFBA	37.8			ng/L	36.2		104	50-200			
Surrogate: M3HFPO-DA	27.1			ng/L	36.2		74.8	50-200			
Surrogate: M6PFDA	39.4			ng/L	36.2		109	50-200			
Surrogate: M3PFBS	34.0			ng/L	33.7		101	50-200			
Surrogate: M7PFUnA	38.6			ng/L	36.2		107	50-200			
Surrogate: M2-6:2FTS	42.7			ng/L	34.4		124	50-200			
Surrogate: M5PFPeA	36.6			ng/L	36.2		101	50-200			
Surrogate: M5PFHxA	35.8			ng/L	36.2		98.9	50-200			
Surrogate: M3PFHxS	37.3			ng/L	34.3		109	50-200			
Surrogate: M4PFHpA	37.2			ng/L	36.2		103	50-200			
Surrogate: M8PFOA	37.6			ng/L	36.2		104	50-200			
Surrogate: M8PFOS	33.7			ng/L	34.7		97.1	50-200			
Surrogate: M9PFNA	39.2			ng/L	36.2		108	50-200			
Surrogate: MPFDoA	35.3			ng/L	36.2		97.6	50-200			

LCS Dup (B314226-BS1)

Prepared: 08/15/22 Analyzed: 08/25/22

Perfluorobutanoic acid (PFBA)	1.47	1.8		ng/L	1.79		82.2	50-150	0.445	30	
Perfluorobutanesulfonic acid (PFBS)	1.37	1.8		ng/L	1.58		86.8	50-150	1.75	30	
Perfluoropentanoic acid (PFPeA)	1.64	1.8		ng/L	1.79		91.7	50-150	4.66	30	
Perfluorohexanoic acid (PFHxA)	1.58	1.8		ng/L	1.79		88.0	50-150	3.06	30	
11Cl-PF3OUdS (F53B Major)	1.37	1.8		ng/L	1.69		81.3	50-150	0.923	30	
9Cl-PF3ONS (F53B Minor)	1.23	1.8		ng/L	1.67		74.0	50-150	13.9	30	
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.58	1.8		ng/L	1.69		93.9	50-150	1.49	30	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.99	1.8		ng/L	1.79		111	50-150	3.25	30	
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.58	1.8		ng/L	1.72		91.9	50-150	17.0	30	

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B314226 - EPA 533
LCS Dup (B314226-BSD1)

Prepared: 08/15/22 Analyzed: 08/25/22

Perfluorodecanoic acid (PFDA)	1.58	1.8		ng/L	1.79		88.5	50-150	6.50	30	
Perfluorododecanoic acid (PFDoA)	1.69	1.8		ng/L	1.79		94.6	50-150	4.64	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	1.11	1.8		ng/L	1.59		69.5	50-150	1.97	30	
Perfluoroheptanesulfonic acid (PFHpS)	1.86	1.8		ng/L	1.71		109	50-150	2.74	30	
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.43	1.8		ng/L	1.67		85.7	50-150	8.49	30	
Perfluorohexanesulfonic acid (PFHxS)	1.52	1.8		ng/L	1.64		93.1	50-150	0.881	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	1.57	1.8		ng/L	1.79		87.5	50-150	2.17	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	1.47	1.8		ng/L	1.79		82.3	50-150	1.36	30	
6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.45	1.8		ng/L	1.70		85.6	50-150	11.0	30	
Perfluoropentanesulfonic acid (PFPeS)	1.45	1.8		ng/L	1.68		85.9	50-150	4.57	30	
Perfluoroundecanoic acid (PFUnA)	1.50	1.8		ng/L	1.79		83.7	50-150	2.04	30	
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.21	1.8		ng/L	1.79		67.6	50-150	2.92	30	
Perfluoroheptanoic acid (PFHpA)	1.63	1.8		ng/L	1.79		91.0	50-150	4.74	30	
Perfluorooctanoic acid (PFOA)	1.97	1.8		ng/L	1.79		110	50-150	1.69	30	
Perfluorooctanesulfonic acid (PFOS)	1.54	1.8		ng/L	1.66		92.8	50-150	10.4	30	
Perfluorononanoic acid (PFNA)	1.40	1.8		ng/L	1.79		78.1	50-150	3.47	30	
Surrogate: M2-4:2FTS	34.7			ng/L	33.6		103	50-200			
Surrogate: M2-8:2FTS	61.4			ng/L	34.4		179	50-200			
Surrogate: MPFBA	37.2			ng/L	35.8		104	50-200			
Surrogate: M3HFPO-DA	25.4			ng/L	35.8		70.9	50-200			
Surrogate: M6PFDA	35.7			ng/L	35.8		99.6	50-200			
Surrogate: M3PFBS	33.6			ng/L	33.4		101	50-200			
Surrogate: M7PFUnA	35.2			ng/L	35.8		98.4	50-200			
Surrogate: M2-6:2FTS	43.6			ng/L	34.0		128	50-200			
Surrogate: M5PFPeA	35.7			ng/L	35.8		99.9	50-200			
Surrogate: M5PFHxA	33.1			ng/L	35.8		92.6	50-200			
Surrogate: M3PFHxS	36.0			ng/L	33.9		106	50-200			
Surrogate: M4PFHpA	34.4			ng/L	35.8		96.1	50-200			
Surrogate: M8PFOA	37.2			ng/L	35.8		104	50-200			
Surrogate: M8PFOS	36.1			ng/L	34.3		105	50-200			
Surrogate: M9PFNA	37.5			ng/L	35.8		105	50-200			
Surrogate: MPFDoA	37.4			ng/L	35.8		104	50-200			

Batch B314650 - EPA 533
Blank (B314650-BLK1)

Prepared: 08/08/22 Analyzed: 08/25/22

Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L							Z-01
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L							
11Cl-PF3OUdS (F53B Major)	ND	1.8		ng/L							
9Cl-PF3ONS (F53B Minor)	ND	1.8		ng/L							
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L							

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B314650 - EPA 533
Blank (B314650-BLK1)

Prepared: 08/08/22 Analyzed: 08/25/22

Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.8		ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.8		ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L							
Surrogate: M2-4:2FTS	26.8			ng/L	34.5		77.8	50-200			
Surrogate: M2-8:2FTS	54.1			ng/L	35.3		153	50-200			
Surrogate: MPFBA	32.3			ng/L	36.8		87.9	50-200			
Surrogate: M3HFPO-DA	28.4			ng/L	36.8		77.4	50-200			
Surrogate: M6PFDA	32.8			ng/L	36.8		89.1	50-200			
Surrogate: M3PFBS	27.4			ng/L	34.3		79.9	50-200			
Surrogate: M7PFUnA	32.1			ng/L	36.8		87.3	50-200			
Surrogate: M2-6:2FTS	34.2			ng/L	35.0		97.7	50-200			
Surrogate: M5PFPeA	30.5			ng/L	36.8		83.0	50-200			
Surrogate: M5PFHxA	29.3			ng/L	36.8		79.6	50-200			
Surrogate: M3PFHxS	29.2			ng/L	34.9		83.8	50-200			
Surrogate: M4PFHpA	30.7			ng/L	36.8		83.4	50-200			
Surrogate: M8PFOA	34.3			ng/L	36.8		93.2	50-200			
Surrogate: M8PFOS	29.5			ng/L	35.3		83.7	50-200			
Surrogate: M9PFNA	34.8			ng/L	36.8		94.5	50-200			
Surrogate: MPFDoA	32.3			ng/L	36.8		87.9	50-200			

LCS (B314650-BS1)

Prepared: 08/08/22 Analyzed: 08/25/22

Perfluorobutanoic acid (PFBA)	1.27	1.8		ng/L	1.81		69.9	50-150			
Perfluorobutanesulfonic acid (PFBS)	2.97	1.8		ng/L	1.60		185	*	50-150		L-05
Perfluoropentanoic acid (PFPeA)	1.39	1.8		ng/L	1.81		76.7	50-150			
Perfluorohexanoic acid (PFHxA)	1.35	1.8		ng/L	1.81		74.5	50-150			
11Cl-PF3OUdS (F53B Major)	0.993	1.8		ng/L	1.71		58.2	50-150			
9Cl-PF3ONS (F53B Minor)	1.15	1.8		ng/L	1.69		68.2	50-150			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	1.28	1.8		ng/L	1.71		74.7	50-150			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	1.58	1.8		ng/L	1.81		87.1	50-150			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	1.29	1.8		ng/L	1.74		74.4	50-150			
Perfluorodecanoic acid (PFDA)	1.38	1.8		ng/L	1.81		76.2	50-150			
Perfluorododecanoic acid (PFDoA)	1.40	1.8		ng/L	1.81		77.2	50-150			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	1.20	1.8		ng/L	1.61		74.6	50-150			
Perfluoroheptanesulfonic acid (PFHpS)	1.56	1.8		ng/L	1.73		90.4	50-150			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	1.25	1.8		ng/L	1.69		73.9	50-150			
Perfluorohexanesulfonic acid (PFHxS)	1.28	1.8		ng/L	1.66		77.3	50-150			
Perfluoro-4-oxapentanoic acid (PFMPA)	1.27	1.8		ng/L	1.81		69.8	50-150			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.25	1.8		ng/L	1.81		69.2	50-150			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B314650 - EPA 533
LCS (B314650-BS1)

Prepared: 08/08/22 Analyzed: 08/25/22

6:2 Fluorotelomersulfonic acid (6:2FTS A)	1.57	1.8		ng/L	1.72		91.3	50-150			
Perfluoropentanesulfonic acid (PFPeS)	1.18	1.8		ng/L	1.70		69.4	50-150			
Perfluoroundecanoic acid (PFUnA)	1.26	1.8		ng/L	1.81		69.6	50-150			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	1.42	1.8		ng/L	1.81		78.3	50-150			
Perfluoroheptanoic acid (PFHpA)	1.43	1.8		ng/L	1.81		78.7	50-150			
Perfluorooctanoic acid (PFOA)	1.45	1.8		ng/L	1.81		79.9	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.26	1.8		ng/L	1.68		75.3	50-150			
Perfluorononanoic acid (PFNA)	1.12	1.8		ng/L	1.81		61.7	50-150			
Surrogate: M2-4:2FTS	26.4			ng/L	34.0		77.7	50-200			
Surrogate: M2-8:2FTS	54.7			ng/L	34.8		157	50-200			
Surrogate: MPFBA	34.0			ng/L	36.2		93.9	50-200			
Surrogate: M3HFPO-DA	26.9			ng/L	36.2		74.3	50-200			
Surrogate: M6PFDA	34.2			ng/L	36.2		94.4	50-200			
Surrogate: M3PFBS	27.4			ng/L	33.8		81.2	50-200			
Surrogate: M7PFUnA	30.9			ng/L	36.2		85.2	50-200			
Surrogate: M2-6:2FTS	33.9			ng/L	34.5		98.3	50-200			
Surrogate: M5PFPeA	32.5			ng/L	36.2		89.7	50-200			
Surrogate: M5PFHxA	29.2			ng/L	36.2		80.7	50-200			
Surrogate: M3PFHxS	30.6			ng/L	34.4		89.0	50-200			
Surrogate: M4PFHpA	30.5			ng/L	36.2		84.1	50-200			
Surrogate: M8PFOA	34.7			ng/L	36.2		95.6	50-200			
Surrogate: M8PFOS	29.2			ng/L	34.8		83.9	50-200			
Surrogate: M9PFNA	34.3			ng/L	36.2		94.5	50-200			
Surrogate: MPFDoA	32.0			ng/L	36.2		88.2	50-200			

Batch B314692 - EPA 533
Blank (B314692-BLK1)

Prepared: 08/10/22 Analyzed: 09/03/22

Z-01a

Perfluorobutanoic acid (PFBA)	ND	1.8		ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.8		ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.8		ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.8		ng/L							
11Cl-PF3OUdS (F53B Major)	3.6	1.8		ng/L							
9Cl-PF3ONS (F53B Minor)	3.8	1.8		ng/L							
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND	1.8		ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.8		ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.8		ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.8		ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.8		ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.8		ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.8		ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.8		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	2.3	1.8		ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.8		ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.8		ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.8		ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.8		ng/L							
Perfluoroundecanoic acid (PFUnA)	2.4	1.8		ng/L							

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B314692 - EPA 533

Blank (B314692-BLK1)						Prepared: 08/10/22 Analyzed: 09/03/22			Z-01a		
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.8		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.8		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.8		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.8		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.8		ng/L							
Surrogate: M2-4:2FTS	0.00			ng/L	33.2		*	50-200			
Surrogate: M2-8:2FTS	0.00			ng/L	34.0		*	50-200			
Surrogate: MPFBA	0.00			ng/L	35.4		*	50-200			
Surrogate: M3HFPO-DA	0.00			ng/L	35.4		*	50-200			
Surrogate: M6PFDA	0.00			ng/L	35.4		*	50-200			
Surrogate: M3PFBS	0.00			ng/L	33.0		*	50-200			
Surrogate: M7PFUnA	0.00			ng/L	35.4		*	50-200			
Surrogate: M2-6:2FTS	0.00			ng/L	33.7		*	50-200			
Surrogate: M5PFPeA	0.00			ng/L	35.4		*	50-200			
Surrogate: M5PFHxA	0.00			ng/L	35.4		*	50-200			
Surrogate: M3PFHxS	0.00			ng/L	33.6		*	50-200			
Surrogate: M4PFHpA	0.00			ng/L	35.4		*	50-200			
Surrogate: M8PFOA	0.00			ng/L	35.4		*	50-200			
Surrogate: M8PFOS	0.00			ng/L	34.0		*	50-200			
Surrogate: M9PFNA	0.00			ng/L	35.4		*	50-200			
Surrogate: MPFDoA	0.00			ng/L	35.4		*	50-200			

LCS (B314692-BS1)						Prepared: 08/10/22 Analyzed: 09/03/22			Z-01a		
Perfluorobutanoic acid (PFBA)	10.3	1.8		ng/L	9.03		114	70-130			
Perfluorobutanesulfonic acid (PFBS)	7.40	1.8		ng/L	7.99		92.6	70-130			
Perfluoropentanoic acid (PFPeA)	10.0	1.8		ng/L	9.03		111	70-130			
Perfluorohexanoic acid (PFHxA)	10.3	1.8		ng/L	9.03		115	70-130			
11Cl-PF3OUdS (F53B Major)	7.79	1.8		ng/L	8.51		91.6	70-130			B
9Cl-PF3ONS (F53B Minor)	8.22	1.8		ng/L	8.42		97.6	70-130			B
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	8.55	1.8		ng/L	8.51		101	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.97	1.8		ng/L	9.03		88.2	70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	9.98	1.8		ng/L	8.67		115	70-130			
Perfluorodecanoic acid (PFDA)	9.87	1.8		ng/L	9.03		109	70-130			
Perfluorododecanoic acid (PFDoA)	9.66	1.8		ng/L	9.03		107	70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEA)	9.20	1.8		ng/L	8.04		114	70-130			
Perfluoroheptanesulfonic acid (PFHpS)	10.3	1.8		ng/L	8.63		120	70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	9.06	1.8		ng/L	8.44		107	70-130			
Perfluorohexanesulfonic acid (PFHxS)	9.46	1.8		ng/L	8.26		114	70-130			B
Perfluoro-4-oxapentanoic acid (PFMPA)	9.05	1.8		ng/L	9.03		100	70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	9.21	1.8		ng/L	9.03		102	70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	8.87	1.8		ng/L	8.58		103	70-130			
Perfluoropentanesulfonic acid (PFPeS)	8.53	1.8		ng/L	8.49		100	70-130			
Perfluoroundecanoic acid (PFUnA)	10.3	1.8		ng/L	9.03		114	70-130			B
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	10.1	1.8		ng/L	9.03		112	70-130			
Perfluoroheptanoic acid (PFHpA)	9.96	1.8		ng/L	9.03		110	70-130			
Perfluorooctanoic acid (PFOA)	9.85	1.8		ng/L	9.03		109	70-130			
Perfluorooctanesulfonic acid (PFOS)	8.41	1.8		ng/L	8.35		101	70-130			
Perfluorononanoic acid (PFNA)	9.84	1.8		ng/L	9.03		109	70-130			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B314692 - EPA 533

LCS (B314692-BS1)											Prepared: 08/10/22 Analyzed: 09/03/22	Z-01a
Surrogate: M2-4:2FTS	29.3			ng/L	33.9		86.6	50-200				
Surrogate: M2-8:2FTS	41.5			ng/L	34.7		120	50-200				
Surrogate: MPFBA	42.0			ng/L	36.1		116	50-200				
Surrogate: M3HFPO-DA	32.0			ng/L	36.1		88.6	50-200				
Surrogate: M6PFDA	41.2			ng/L	36.1		114	50-200				
Surrogate: M3PFBS	32.9			ng/L	33.7		97.8	50-200				
Surrogate: M7PFUnA	42.6			ng/L	36.1		118	50-200				
Surrogate: M2-6:2FTS	41.8			ng/L	34.4		122	50-200				
Surrogate: M5PFPeA	40.2			ng/L	36.1		111	50-200				
Surrogate: M5PFHxA	33.8			ng/L	36.1		93.7	50-200				
Surrogate: M3PFHxS	38.1			ng/L	34.2		111	50-200				
Surrogate: M4PFHpA	37.6			ng/L	36.1		104	50-200				
Surrogate: M8PFOA	42.1			ng/L	36.1		117	50-200				
Surrogate: M8PFOS	40.6			ng/L	34.6		117	50-200				
Surrogate: M9PFNA	40.4			ng/L	36.1		112	50-200				
Surrogate: MPFDoA	40.8			ng/L	36.1		113	50-200				

LCS Dup (B314692-BSD1)											Prepared: 08/10/22 Analyzed: 09/03/22	Z-01a
Perfluorobutanoic acid (PFBA)	8.42	1.7		ng/L	8.51		98.9	70-130	20.2	30		
Perfluorobutanesulfonic acid (PFBS)	6.03	1.7		ng/L	7.53		80.0	70-130	20.5	30		
Perfluoropentanoic acid (PFPeA)	8.18	1.7		ng/L	8.51		96.1	70-130	20.0	30		
Perfluorohexanoic acid (PFHxA)	8.35	1.7		ng/L	8.51		98.1	70-130	21.3	30		
11Cl-PF3OUdS (F53B Major)	6.90	1.7		ng/L	8.02		86.1	70-130	12.1	30		B
9Cl-PF3ONS (F53B Minor)	7.65	1.7		ng/L	7.93		96.5	70-130	7.10	30		B
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	7.00	1.7		ng/L	8.02		87.3	70-130	20.0	30		
Hexafluoropropylene oxide dimer acid (HFPO-DA)	6.08	1.7		ng/L	8.51		71.5	70-130	26.8	30		
8:2 Fluorotelomersulfonic acid (8:2FTS A)	7.92	1.7		ng/L	8.17		96.9	70-130	23.1	30		
Perfluorodecanoic acid (PFDA)	7.45	1.7		ng/L	8.51		87.6	70-130	27.9	30		
Perfluorododecanoic acid (PFDoA)	8.05	1.7		ng/L	8.51		94.6	70-130	18.2	30		
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	7.45	1.7		ng/L	7.57		98.4	70-130	21.0	30		
Perfluoroheptanesulfonic acid (PFHpS)	8.99	1.7		ng/L	8.13		111	70-130	13.9	30		
4:2 Fluorotelomersulfonic acid (4:2FTS A)	7.49	1.7		ng/L	7.96		94.2	70-130	19.0	30		
Perfluorohexanesulfonic acid (PFHxS)	7.45	1.7		ng/L	7.79		95.7	70-130	23.7	30		B
Perfluoro-4-oxapentanoic acid (PFMPA)	7.41	1.7		ng/L	8.51		87.1	70-130	19.9	30		
Perfluoro-5-oxahexanoic acid (PFMBA)	7.53	1.7		ng/L	8.51		88.5	70-130	20.1	30		
6:2 Fluorotelomersulfonic acid (6:2FTS A)	7.67	1.7		ng/L	8.08		94.9	70-130	14.5	30		
Perfluoropentanesulfonic acid (PFPeS)	6.89	1.7		ng/L	8.00		86.2	70-130	21.3	30		
Perfluoroundecanoic acid (PFUnA)	8.00	1.7		ng/L	8.51		94.0	70-130	24.7	30		B
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	8.19	1.7		ng/L	8.51		96.2	70-130	20.7	30		
Perfluoroheptanoic acid (PFHpA)	8.22	1.7		ng/L	8.51		96.7	70-130	19.0	30		
Perfluorooctanoic acid (PFOA)	8.37	1.7		ng/L	8.51		98.4	70-130	16.2	30		
Perfluorooctanesulfonic acid (PFOS)	8.05	1.7		ng/L	7.87		102	70-130	4.37	30		
Perfluorononanoic acid (PFNA)	8.30	1.7		ng/L	8.51		97.5	70-130	17.0	30		
Surrogate: M2-4:2FTS	30.5			ng/L	31.9		95.5	50-200				
Surrogate: M2-8:2FTS	40.1			ng/L	32.7		123	50-200				
Surrogate: MPFBA	40.9			ng/L	34.0		120	50-200				
Surrogate: M3HFPO-DA	31.7			ng/L	34.0		93.2	50-200				
Surrogate: M6PFDA	39.9			ng/L	34.0		117	50-200				

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B314692 - EPA 533
LCS Dup (B314692-BSD1)

Prepared: 08/10/22 Analyzed: 09/03/22

Z-01a

Surrogate: M3PFBS	33.9			ng/L	31.7		107	50-200			
Surrogate: M7PFUnA	40.9			ng/L	34.0		120	50-200			
Surrogate: M2-6:2FTS	42.5			ng/L	32.4		131	50-200			
Surrogate: M5PFPeA	39.4			ng/L	34.0		116	50-200			
Surrogate: M5PFHxA	33.7			ng/L	34.0		99.0	50-200			
Surrogate: M3PFHxS	40.4			ng/L	32.3		125	50-200			
Surrogate: M4PFHpA	36.7			ng/L	34.0		108	50-200			
Surrogate: M8PFOA	40.4			ng/L	34.0		119	50-200			
Surrogate: M8PFOS	38.0			ng/L	32.6		117	50-200			
Surrogate: M9PFNA	38.0			ng/L	34.0		112	50-200			
Surrogate: MPFDoA	38.3			ng/L	34.0		113	50-200			

Batch B316009 - EPA 533
Blank (B316009-BLK1)

Prepared: 08/31/22 Analyzed: 09/06/22

Perfluorobutanoic acid (PFBA)	ND	1.9		ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	1.9		ng/L							
Perfluoropentanoic acid (PFPeA)	ND	1.9		ng/L							
Perfluorohexanoic acid (PFHxA)	ND	1.9		ng/L							
11Cl-PF3OUdS (F53B Major)	ND	1.9		ng/L							
9Cl-PF3ONS (F53B Minor)	ND	1.9		ng/L							
4,8-dioxo-3H-perfluorononanoic acid (ADONA)	ND	1.9		ng/L							
Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND	1.9		ng/L							
8:2 Fluorotelomersulfonic acid (8:2FTS A)	ND	1.9		ng/L							
Perfluorodecanoic acid (PFDA)	ND	1.9		ng/L							
Perfluorododecanoic acid (PFDoA)	ND	1.9		ng/L							
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	ND	1.9		ng/L							
Perfluoroheptanesulfonic acid (PFHpS)	ND	1.9		ng/L							
4:2 Fluorotelomersulfonic acid (4:2FTS A)	ND	1.9		ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	1.9		ng/L							
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	1.9		ng/L							
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	1.9		ng/L							
6:2 Fluorotelomersulfonic acid (6:2FTS A)	ND	1.9		ng/L							
Perfluoropentanesulfonic acid (PFPeS)	ND	1.9		ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	1.9		ng/L							
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	1.9		ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	1.9		ng/L							
Perfluorooctanoic acid (PFOA)	ND	1.9		ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	1.9		ng/L							
Perfluorononanoic acid (PFNA)	ND	1.9		ng/L							
Surrogate: M2-4:2FTS	32.6			ng/L	35.8		91.0	50-200			
Surrogate: M2-8:2FTS	35.5			ng/L	36.7		96.8	50-200			
Surrogate: MPFBA	37.1			ng/L	38.2		97.2	50-200			
Surrogate: M3HFPO-DA	39.2			ng/L	38.2		102	50-200			
Surrogate: M6PFDA	38.9			ng/L	38.2		102	50-200			
Surrogate: M3PFBS	37.6			ng/L	35.6		106	50-200			
Surrogate: M7PFUnA	40.9			ng/L	38.2		107	50-200			
Surrogate: M2-6:2FTS	36.8			ng/L	36.3		101	50-200			
Surrogate: M5PFPeA	40.1			ng/L	38.2		105	50-200			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B316009 - EPA 533
Blank (B316009-BLK1)

Prepared: 08/31/22 Analyzed: 09/06/22

Surrogate: M5PFHxA	40.1			ng/L	38.2		105	50-200			
Surrogate: M3PFHxS	35.5			ng/L	36.2		97.9	50-200			
Surrogate: M4PFHpA	37.7			ng/L	38.2		98.6	50-200			
Surrogate: M8PFOA	38.7			ng/L	38.2		101	50-200			
Surrogate: M8PFOS	35.8			ng/L	36.6		97.6	50-200			
Surrogate: M9PFNA	38.5			ng/L	38.2		101	50-200			
Surrogate: MPFDoA	38.3			ng/L	38.2		100	50-200			

LCS (B316009-BS1)

Prepared: 08/31/22 Analyzed: 09/06/22

Perfluorobutanoic acid (PFBA)	10.5	1.8		ng/L	9.17		114	70-130			
Perfluorobutanesulfonic acid (PFBS)	9.34	1.8		ng/L	8.11		115	70-130			
Perfluoropentanoic acid (PFPeA)	10.7	1.8		ng/L	9.17		117	70-130			
Perfluorohexanoic acid (PFHxA)	10.4	1.8		ng/L	9.17		113	70-130			
11Cl-PF3OUdS (F53B Major)	9.32	1.8		ng/L	8.63		108	70-130			
9Cl-PF3ONS (F53B Minor)	8.83	1.8		ng/L	8.54		103	70-130			
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	7.89	1.8		ng/L	8.63		91.4	70-130			
Hexafluoropropylene oxide dimer acid (HFPO-DA)	7.75	1.8		ng/L	9.17		84.5	70-130			
8:2 Fluorotelomersulfonic acid (8:2FTS A)	10.2	1.8		ng/L	8.80		116	70-130			
Perfluorodecanoic acid (PFDA)	10.5	1.8		ng/L	9.17		115	70-130			
Perfluorododecanoic acid (PFDoA)	10.1	1.8		ng/L	9.17		110	70-130			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.78	1.8		ng/L	8.16		95.4	70-130			
Perfluoroheptanesulfonic acid (PFHpS)	9.37	1.8		ng/L	8.75		107	70-130			
4:2 Fluorotelomersulfonic acid (4:2FTS A)	9.64	1.8		ng/L	8.57		112	70-130			
Perfluorohexanesulfonic acid (PFHxS)	9.24	1.8		ng/L	8.39		110	70-130			
Perfluoro-4-oxapentanoic acid (PFMPA)	11.5	1.8		ng/L	9.17		125	70-130			
Perfluoro-5-oxahexanoic acid (PFMBA)	10.5	1.8		ng/L	9.17		115	70-130			
6:2 Fluorotelomersulfonic acid (6:2FTS A)	8.66	1.8		ng/L	8.71		99.4	70-130			
Perfluoropentanesulfonic acid (PFPeS)	9.92	1.8		ng/L	8.62		115	70-130			
Perfluoroundecanoic acid (PFUnA)	11.4	1.8		ng/L	9.17		125	70-130			
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	10.7	1.8		ng/L	9.17		116	70-130			
Perfluoroheptanoic acid (PFHpA)	10.3	1.8		ng/L	9.17		112	70-130			
Perfluorooctanoic acid (PFOA)	11.6	1.8		ng/L	9.17		127	70-130			
Perfluorooctanesulfonic acid (PFOS)	9.09	1.8		ng/L	8.48		107	70-130			
Perfluorononanoic acid (PFNA)	10.6	1.8		ng/L	9.17		115	70-130			
Surrogate: M2-4:2FTS	31.6			ng/L	34.4		92.0	50-200			
Surrogate: M2-8:2FTS	33.4			ng/L	35.2		94.8	50-200			
Surrogate: MPFBA	35.2			ng/L	36.7		96.0	50-200			
Surrogate: M3HFPO-DA	39.6			ng/L	36.7		108	50-200			
Surrogate: M6PFDA	36.1			ng/L	36.7		98.6	50-200			
Surrogate: M3PFBS	36.7			ng/L	34.2		107	50-200			
Surrogate: M7PFUnA	36.1			ng/L	36.7		98.5	50-200			
Surrogate: M2-6:2FTS	38.3			ng/L	34.9		110	50-200			
Surrogate: M5PFPeA	38.0			ng/L	36.7		104	50-200			
Surrogate: M5PFHxA	38.0			ng/L	36.7		104	50-200			
Surrogate: M3PFHxS	34.0			ng/L	34.8		97.9	50-200			
Surrogate: M4PFHpA	37.4			ng/L	36.7		102	50-200			
Surrogate: M8PFOA	34.5			ng/L	36.7		94.2	50-200			
Surrogate: M8PFOS	34.3			ng/L	35.2		97.4	50-200			

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

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

Analyte	Result	Reporting Limit	DL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch B316009 - EPA 533
LCS (B316009-BS1)

Prepared: 08/31/22 Analyzed: 09/06/22

Surrogate: M9PFNA	33.1			ng/L	36.7		95.7	50-200			
Surrogate: MPFDoA	36.8			ng/L	36.7		100	50-200			

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.
B	Analyte is found in the associated laboratory blank as well as in the sample.
H-04	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
L-05	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.
PF-17	Extracted Internal Standard recovery is outside of control limits. Data is not significantly affected since associated analyte is not detected and bias is on the high side.
S-29	Extracted Internal Standard is outside of control limits.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
Z-01	Detection found within blank >1/3 the MRL.
Z-01a	Due to a lab accident, blank does not contain any internal standard. Results should be considered suspect.
Z-01b	Extracted internal standard outside of control limits. Sample not re-extracted past hold per method criteria.
Z-01c	Internal standard area <50% of associated calibration standard internal standard area. Sample not re-extracted past hold per method criteria
Z-01d	Internal standard area <50% of associated calibration standard internal standard area. Sample not re-extracted past hold per method criteria.
Z-01e	Internal standard area <50% of associated calibration standard internal standard area. Sample not re-extracted past hold per method criteria
Z-01f	Internal standard area <50% of associated calibration standard internal standard area. Sample not re-extracted past hold per method criteria.
Z-01g	Internal standard area >150% of associated calibration standard internal standard area. Sample not re-extracted past hold per method criteria.
Z-01h	Internal standard area >50% of associated calibration standard internal standard area. Sample not re-extracted past hold per method criteria.

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

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 533 in Drinking Water</i>	
Perfluorobutanoic acid (PFBA)	VT-DW,ME,NJ,NH-P
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME,NJ,NH-P
Perfluoropentanoic acid (PFPeA)	VT-DW,ME,NJ,NH-P
Perfluorohexanoic acid (PFHxA)	VT-DW,ME,NJ,NH-P
11Cl-PF3OUdS (F53B Major)	VT-DW,ME,NJ,NH-P
9Cl-PF3ONS (F53B Minor)	VT-DW,ME,NJ,NH-P
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	VT-DW,ME,NJ,NH-P
Hexafluoropropylene oxide dimer acid (HFPO-DA)	VT-DW,ME,NJ,NH-P
8:2 Fluorotelomersulfonic acid (8:2FTS A)	VT-DW,ME,NJ,NH-P
Perfluorodecanoic acid (PFDA)	VT-DW,ME,NJ,NH-P
Perfluorododecanoic acid (PFDoA)	VT-DW,ME,NJ,NH-P
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	VT-DW,ME,NJ,NH-P
Perfluoroheptanesulfonic acid (PFHpS)	VT-DW,ME,NJ,NH-P
4:2 Fluorotelomersulfonic acid (4:2FTS A)	VT-DW,ME,NJ,NH-P
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME,NJ,NH-P
Perfluoro-4-oxapentanoic acid (PFMPA)	VT-DW,ME,NJ,NH-P
Perfluoro-5-oxahexanoic acid (PFMBA)	VT-DW,ME,NJ,NH-P
6:2 Fluorotelomersulfonic acid (6:2FTS A)	VT-DW,ME,NJ,NH-P
Perfluoropentanesulfonic acid (PFPeS)	VT-DW,ME,NJ,NH-P
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME,NJ,NH-P
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	VT-DW,ME,NJ,NH-P
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME,NJ,NH-P
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME,NJ
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME,NJ
Perfluorononanoic acid (PFNA)	VT-DW,ME,NJ,NH-P

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO 17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2023
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2023
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2023
NC-DW	North Carolina Department of Health and Human Services	25703	07/31/2023
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2023
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022



CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of 3

Lab Work Order #

220600

ID#:

Contact & Company Name:		Telephone:	Preservative		Filtered (✓)	Number of Containers	Container Information	PARAMETER ANALYSIS & METHOD			
Arcadis/Nick Firman		315.559.6075	F		N	2 per	3				
Address:			F		N	2 per	3				
110 W Fayette St.			F		N	2 per	3				
City		State	F		N	2 per	3				
Syracuse NY 13202		NY	F		N	2 per	3				
Project Name/Location (City, State)		Nick Firman@Arcadis.com									
Newburgh, NY											
Sampler's Printed Name:		Nick Firman									
Sampler's Signature:											
Sample ID		Collection Date	Time	Type (✓)	Comp	Grab	Matrix				
MC-4A (6")	7/26/22	850		X			W	EPA Method 533			
MC-4A (SW)		855									
MC-3A (6")		910									
MC-3A (SW)		915									
RP-1A (6")		1010									
RP-1A (SW)		1015									
RP-2A (6")		1025									
RP-2A (SW)		1030									
RPT-1A (6")		1045									
RPT-1A (SW)		1050									
ML-3A (6")		1100									
ML-3A (SW)		1105									
ML-2A (6")		1110									
ML-2A (SW)		1115									
Special Instructions/Comments:									☐ Special QA/QC Instructions(✓):		
Con Test											
Cooler packed with ice (✓)											
Sample Receipt											
Condition/Cooler Temp:											
Shipping Tracking #:											
Specify Turnaround Requirements:											
10 day TAT											
Shipping Tracking #:											
-											
20730926 Co/C AR Form 08.27.2015											
Distribution:											
WHITE - Laboratory returns with results											
YELLOW - Lab copy											
PINK - Retained by Arcadis											

Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By	
Lab Name:	Con Test	Printed Name:	Nick Firman	Printed Name:	Rebecca (Arcadis)	Printed Name:		Printed Name:	
Cooler Custody Seal (✓)	☐ Intact ☐ Not Intact	Signature:		Signature:		Signature:		Signature:	
Sample Receipt		Firm:	Arcadis	Firm/Courier:	Pow NE	Firm:		Firm:	
Condition/Cooler Temp:		Date/Time:	7/26/22 1300	Date/Time:	7/28 1001	Date/Time:		Date/Time:	

REMARKS

Please analyze per EPA Method 533; 10 day TAT requested. RHYSDC Equus EDD deliverable requested. Please call or email w/ any questions at 315-559-6075 or Nick.Firman@arcadis.com. Thanks.



ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

Page 2 of 3

Contact & Company Name:		Telephone:	Preservative:	Filtered (✓):	# of Containers:	Container Information:	PARAMETER ANALYSIS & METHOD				REMARKS
Address:		Fax:									
City:		E-mail Address:									
Project Name/Location (City, State):		Project:									
Sampler's Printed Name:		Sampler's Signature:									
Sample ID	Collection Date	Time	Type (✓)	Comp	Grab	Matrix					
SS-5A (6")	7/24/22	1225	X			W					See page 1
SS-5A (SW)		1130									
SS-6A (6")		1215									
SS-6A (SW)		1220									
MC-1A (6")		1225									
MC-1A (SW)		1230									
MC-2A (6")		1245									
MC-2A (SW)		1250									
SS-3A (6")		1415									
SS-3A (SW)		1420									
SS-2A (6")		1430									
SS-2A (SW)		1435									
SS-1A (6")		1445									
SS-1A (SW)		1450									
Special Instructions/Comments:											☐ Special QA/QC Instructions (✓):
Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By			
Lab Name:	Can Test	Printed Name:	Nick Birman	Printed Name:	Karisa	Printed Name:		Printed Name:			
Cooler Custody Seal (✓)	☐ Intact ☐ Not Intact	Signature:		Signature:		Signature:		Signature:			
Sample Receipt		Firm:	ARCADIS	Firm/Courier:	Low NE	Firm:		Firm:			
Condition/Cooler Temp:		Date/Time:	7/28/22 1306	Date/Time:	7/28/22	Date/Time:		Date/Time:			
Distribution: WHITE - Laboratory returns with results YELLOW - Lab copy PINK - Retained by Arcadis											



ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

Page 3 of 3

Contact & Company Name:		Telephone:	Preservative		Container Information Key:
Arcadis/Nick Firman			Filtered (✓)	F	1. 40 ml Vial
Address:		Fax:	# of Containers	N	2. 1 L Amber
City:		E-mail Address:	Container Information	2 per	3. 250 ml Plastic
Project Name/Location (City, State):		Project #:	3		4. 500 ml Plastic
Sampler's Printed Name:		Sampler's Signature:	PARAMETER ANALYSIS & METHOD		5. Encore
Sample ID	Collection Date	Time	Type (✓)	Matrix	6. 2 oz. Glass
ML-1A-M	7/27/12	730	X	W	7. 4 oz. Glass
WL-3A-B	820				8. Other
WL-3A-T	825				9. Other
WL-4A-M	805				10. Other
WL-2A-M	845				SE - Sediment
WL-6A-B	1015				SL - Sludge
WL-6A-M	1020				W - Water
WL-6A-T	1025				T - Tissue
WL-5A-B	1040				SE - Sediment
WL-5A-M	1045				SL - Sludge
WL-5A-T	1050				W - Water
WL-1A-B	855				T - Tissue
WL-1A-T	900				SE - Sediment

Special Instructions/Comments:

Relinquished By: Nick Firman
Received By: Nick Firman
Signature: [Signature]
Date/Time: 7/27/12 1300

Relinquished By: [Signature]
Received By: [Signature]
Signature: [Signature]
Date/Time: 7/27/12 1300

Relinquished By: [Signature]
Received By: [Signature]
Signature: [Signature]
Date/Time: 7/27/12 1300

(https://www.fedex.com/track-us/home.html)



FedEx® Tracking



DELIVERED

Thursday

7/28/2022 at 10:01 am

Signed for by: R.PETRAITIS

↓ Obtain Proof of delivery

DELIVERY STATUS

Delivered

↓ Shipment is 1 of 2 pieces

✉ Get Status Updates

TRACKING ID

276067419352

FROM

SYRACUSE, NY US

Label Created

7/27/2022 11:39

PACKAGE RECEIVED BY FEDEX

NEWBURGH, NY

7/27/2022 12:38

IN TRANSIT

WINDSOR LOCKS, CT

7/28/2022 07:29

OUT FOR DELIVERY

WINDSOR LOCKS, CT

7/28/2022 07:39

DELIVERED

East Longmeadow, MA US

DELIVERED

7/28/2022 at 10:01 AM

↓ View travel history

Manage Delivery



2 Piece Shipment

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.pacelabs.com

Pace PEOPLE ADVANCING SCIENCE
Doc# 277 Rev 6 July 2022

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 Accedis
Received By UR Date 7/28 Time 1001

How were the samples received? In Cooler T No Cooler On Ice T No Ice
Direct From Sample Ambient Melted Ice

Were samples within Temperature? Within 2-6°C T By Gun # 3 Actual Temp - 4.2, 4.0
By Blank # Actual Temp -

Was Custody Seal In tact? T Were Samples Tampered with? F
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? T
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?

Samples are received within holding time? T Is there enough Volume? T
Is there Headspace where applicable? F MS/MSD? F
Proper Media/Containers Used? T splitting samples require F
Were trip blanks receive 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-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	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: