

From: Brian Youngwirth <brian@clse.pro>
Sent: Monday, August 28, 2023 7:02 AM
To: Nanci LaChapelle
Cc: Schultz, Josie M - DNR; Lynn
Subject: RE: Groundwater Sampling Results

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Hi Nanci,

Your attorney contacted me several months ago regarding the testing and what work was planned. Therefore, I was just providing the groundwater results to you for the wells on your property as required by our access agreement and letting you know that I am working on a report that would be available for review on the WDNR's website, if desired, since our reports just go to our client and the WDNR. The WDNR maintains a database called BRRS On The Web where the reports that we submit are available for review. I believe that your attorney is aware of this database. If you have questions regarding the test results, please contact the WDNR case manager, Josie Schultz at 920 366-5685. I have also copied her on this email. If you need anything else from me, just let me know.

Thank you,

Brian Youngwirth, P.G.

Senior Geologist, Carow Land Surveying & Environmental
615 North Lynndale Drive, Appleton, Wisconsin 54914

brian@clse.pro

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Appleton Office: 920-731-4168

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From: Nanci LaChapelle <NLaChapelle@4bcs.com>

Sent: Friday, August 25, 2023 4:14 PM

To: Brian Youngwirth <brian@clse.pro>

Subject: FW: Groundwater Sampling Results

Brian – Please forward an explanation of what this means?

Nan

From: Brian Youngwirth <brian@clse.pro>
Sent: Friday, August 25, 2023 8:59 AM
To: Nanci LaChapelle <NLaChapelle@4bcs.com>
Cc: Schultz, Josie M - DNR <josie.schultz@wisconsin.gov>
Subject: Groundwater Sampling Results

Nanci, attached are the groundwater results from the monitoring wells located on your property (MW-12, MW-13, MW-15, MW-16, and PZ-2) for the sampling round performed on July 24, 2023. I am working on a Status Update for the project that should be available on the WDNR database sometime in September.

Brian Youngwirth, P.G.

Senior Geologist, Carow Land Surveying & Environmental
615 North Lynndale Drive, Appleton, Wisconsin 54914
brian@clse.pro
Cell Phone: 920-229-8600
Appleton Office: 920-731-4168
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TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

Monitoring Well	MW-12			
	State Lab of Hygiene	Pace Analytical		SGS
	Sampling Date	7/12/2022	7/12/2022	7/24/2023
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)				
PFOA	6.22F	5.5	4.1J	4.97J
PFOS	<1.43	<0.55	<1.4	<2.92
PFBS	4.58F	8.3	5.1	6.76J
PFHpA	4.84F	6.7	3.9J	5.2J
PFHxS	<1.42	1.6J	<1.1	<2.92
PFNA	<1.48	<0.74	<1.7	<2.92
PFDA	<1.63	<0.57	<1.3	<2.92
PFDoA	<2.71	<0.49	<1	<2.33
PFHxA	12.3	17	11.6	16.1
PFTeDA	<1.75	<0.48	<1.3	<2.92
PFTTrDA	<1.93	<0.63	<1.3	<2.92
PFUnA	<2.22	<0.54	<1	<2.92
N-EtFOSA	<6.94	<0.61	<1.2	<8.16
N-EtFOSAA	<2.12	<0.56	<1.7	<2.92
N-MeFOSAA	<2.19	<0.44	<1.5	<2.92
PFBA	77.6	140	87.3	148
PFPeA	13.4	21	12	20.5J
PFPeS	<1.36	1.2J	<1.3	<2.93
PFHpS	<1.90	<0.41	<1.4	<2.92
PFNS	<1.82	<0.45	<1.2	<2.92
PFDS	<2.57	<0.45	<1.4	<2.92
PFDoS	<2.47	<0.46	<1.2	<2.92
FOSA	<1.55	<0.82	<1.5	<2.92
N-MeFOSA	<10	<0.51	<1.2	<2.92
N-MeFOSE	<2.81	<0.33	<1.1	<29.2
N-EtFOSE	<2.12	<0.5	<1.9	<29.2
4:2 FTSA	<1.90	<0.56	<0.98	<11.7
6:2 FTSA	<2.72	<0.65	<1.4	<10.5
8:2 FTSA	<2.62	<0.66	<1.1	<9.91
10:2 FTSA	NR	NR	NR	NR
DONA	<1.28	<0.52	<1.9	<11.7
GenX (HPFO-DA)	<1.92	<0.53	<1	<11.7
9Cl-PF3ONS	<1.82	<0.31	<0.99	<11.7
11Cl-PF3OUdS	<1.49	<0.44	<1.2	<11.7

ng/L = nanograms per liter (parts per trillion)

< = compound below laboratory detection limit

Bold indicates laboratory detections

B=Analyte detected in the field blank

F/J = result is between laboratory limit of detection and laboratory limit of quantitation

PFOA (355-67-1) Perfluorooctanoic Acid (C8)

PFOS (1963-23-1) Perfluorooctanesulfonic Acid (C8)

PFBS (375-73-5) Perfluorobutanesulfonic Acid (C4)

PFHpA = (375-85-9) Perfluoroheptanoic Acid (C7)

PFHxS = (355-46-4) Perfluorohexanesulfonic Acid (C6)

PFNA (375-95-1) Perfluorononanoic Acid (C9)

PFDA (335-76-2) Perfluorodecanoic Acid (C10)

PFDoA (307-55-1) Perfluorododecanoic Acid (C12)

PFHxA (307-24-4) Perfluorohexanoic Acid (C6)

PFTeDA (376-06-7) Perfluorotetradecanoic Acid (C14)

PFTTrDA (72629-94-8) Perfluorotridecanoic Acid (C13)

PFUnA (2058-94-8) Perfluoroundecanoic Acid (C11)

N-EtFOSAA (2991-50-6) N-ethylperfluorooctanesulfonamidoacetic Acid (C12)

N-MeFOSAA (2355-31-9) N-methylperfluorooctanesulfonamidoacetic Acid (C11)

PFBA (375-22-4) Perfluorobutanoic Acid (C4)

PFPeA (2706-90-3) Perfluoropentanoic Acid (C5)

PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)

PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)

PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)

PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)

PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)

FOSA (754-91-6) Perfluorooctanesulfonamide (C8)

N-EtFOSA (4151-50-2) N-ethylperfluorooctanesulfonamide (C10)

N-MeFOSA (31506-32-8) N-methylperfluorooctanesulfonamide (C9)

N-MeFOSE (24448-09-7) N-methylperfluorooctanesulfonamidoethanol (C11)

N-EtFOSE (1691-99-2) N-ethylperfluorooctanesulfonamidoethanol (C12)

4:2 FTSA (757124-72-4) 4:2 fluorotelomer sulfonate (C6)

6:2 FTSA (27619-97-2) 6:2 fluorotelomer sulfonate (C8)

8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)

10:2 FTSA (120226-60-0) 10:2 fluorotelomer sulfonate (C12)

DONA (919005-14-4) 4,8-Dioxa-3H-perfluorononanoic acid (C7)

GenX (13252-13-6) Hexafluoropropylene oxide dimer acid (C6)

9Cl-PF3ONS (756426-58-1) 9-chlorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)

11Cl-PF3OUdS (763051-92-9) 11-chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (C10)

**TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27**

Monitoring Well	MW-13			
Lab	State Lab of Hygiene	Pace Analytical		SGS
Sampling Date	7/12/2022	7/12/2022	7/24/2023	7/12/2022
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)				
PFOA	2.05F	2J	<1.8	1.78
PFOS	<1.43	<0.54	<1.4	<0.375
PFBS	3.73F	4.6B	3.1J	4.25
PFHpA	<1.50	1.7J	<1.4	1.21J
PFHxS	<1.42	0.53J	<1.1	0.533J
PFNA	<1.48	<0.73	<1.7	<0.375
PFDA	<1.63	<0.56	<1.3	<0.375
PFDaA	<2.71	<0.48	<1	<0.300
PFHxA	6.42F	7.6	5.8	6.18
PFTeDA	<1.75	<0.47	<1.3	<0.375
PFTrDA	<1.93	<0.61	<1.3	<0.375
PFUnA	<2.22	<0.53	<1	<0.375
N-EtFOSA	<6.94	<0.6	<1.2	<1.05
N-EtFOSAA	<2.12	<0.55	<1.7	<0.375
N-MeFOSAA	<2.19	<0.5	<1.5	<0.375
PFBA	53.4	61	50	61.3
PFPeA	8.07F	9.9	6.6	8.81
PFPeS	<1.36	<0.47	<1.3	0.523J
PFHpS	<1.90	<0.41	<1.4	<0.375
PFNS	<1.82	<0.44	<1.2	<0.375
PFDS	<2.57	<0.44	<1.3	<0.375
PFDoS	<2.47	<0.45	<1.2	<0.375
FOSA	<1.55	<0.81	<1.5	<0.375
N-MeFOSA	<10	<0.43	<1.2	<0.375
N-MeFOSE	<2.81	<0.32	<1.1	<3.75
N-EtFOSE	<2.12	<0.49	<1.9	<3.75
4:2 FTSA	<1.90	<0.55	<0.97	<1.5
6:2 FTSA	<2.72	<0.64	<1.4	<1.35
8:2 FTSA	<2.62	<0.65	<1.1	<1.27
10:2 FTSA	NR	NR	NR	NR
DONA	<1.28	<0.51	<1	<1.5
GenX (HPFO-DA)	<1.92	<0.52	<1.9	<1.5
9CI-PF3ONS	<1.82	<0.3	<0.98	<1.5
11CI-PF3OUdS	<1.49	<0.43	<1.2	<1.5

ng/L = nanograms per liter (parts per trillion)

< = compound below laboratory detection limit

Bold indicates laboratory detections

B=Analyte detected in the field blank

F/J = result is between laboratory limit of detection and laboratory limit of quantitation

PFOA (355-67-1) Perfluorooctanoic Acid (C8)

PFOS (1963-23-1) Perfluorooctanesulfonic Acid (C8)

PFBS (375-73-5) Perfluorobutanesulfonic Acid (C4)

PFHpA = (375-85-9) Perfluoroheptanoic Acid (C7)

PFHxS = (355-46-4) Perfluorohexanesulfonic Acid (C6)

PFNA (375-95-1) Perfluorononanoic Acid (C9)

PFDA (335-76-2) Perfluorodecanoic Acid (C10)

PFDaA (307-55-1) Perfluorododecanoic Acid (C12)

PFHxA (307-24-4) Perfluorohexanoic Acid (C6)

PFTeDA (376-06-7) Perfluorotetradecanoic Acid (C14)

PFTrDA (72629-94-8) Perfluorotridecanoic Acid (C13)

PFUnA (2058-94-8) Perfluoroundecanoic Acid (C11)

N-EtFOSAA (2991-50-6) N-ethylperfluorooctanesulfonamidoacetic Acid (C12)

N-MeFOSAA (2355-31-9) N-methylperfluorooctanesulfonamidoacetic Acid (C11)

PFBA (375-22-4) Perfluorobutanoic Acid (C4)

PFPeA (2706-90-3) Perfluoropentanoic Acid (C5)

PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)

PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)

PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)

PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)

PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)

FOSA (754-91-6) Perfluorooctanesulfonamide (C8)

N-EtFOSA (4151-50-2) N-ethylperfluorooctanesulfonamide (C10)

N-MeFOSA (31506-32-8) N-methylperfluorooctanesulfonamide (C9)

N-MeFOSE (24448-09-7) N-methylperfluorooctanesulfonamidoethanol (C11)

N-EtFOSE (1691-99-2) N-ethylperfluorooctanesulfonamidoethanol (C12)

4:2 FTSA (757124-72-4) 4:2 fluorotelomer sulfonate (C6)

6:2 FTSA (27619-97-2) 6:2 fluorotelomer sulfonate (C8)

8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)

10:2 FTSA (120226-60-0) 10:2 fluorotelomer sulfonate (C12)

DONA (919005-14-4) 4,8-Dioxa-3H-perfluorononanoic acid (C7)

GenX (13252-13-6) Hexafluoropropylene oxide dimer acid (C6)

9CI-PF3ONS (756426-58-1) 9-chlorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)

11CI-PF3OUdS (763051-92-9) 11-chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (C10)

**TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27**

Monitoring Well	MW-15			
	Lab	Pace Analytical		SGS
	State Lab of Hygiene			
Sampling Date	7/12/2022	7/12/2022	7/24/2023	7/12/2022
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)				
PFOA	2.3F	3.3	1.1J	<3.01
PFOS	<1.43	<0.54	<0.68	<3.01
PFBS	2.46F	5.2B	3.3	4.15J
PFHpA	19.9	18	19	13.9
PFHxS	<1.42	3.9	0.89J	3.15J
PFNA	<1.48	<0.73	<0.81	<3.01
PFDA	<1.63	<0.56	<0.62	<3.01
PFDaA	<2.71	<0.48	<0.49	<2.41
PFHxA	99.7	110	105	87.9
PFTeDA	<1.75	<0.47	<0.61	<3.01
PFTrDA	<1.93	<0.62	<0.63	<3.01
PFUnA	<2.22	<0.54	<0.49	<3.01
N-EtFOSA	<6.94	<0.6	<0.58	<8.42
N-EtFOSAA	<2.12	<0.55	<0.83	<3.01
N-MeFOSAA	<2.19	<0.43	<0.70	<3.01
PFBA	51.5	94	52.3	85.9
PFPeA	164	180	190	169
PFPeS	<1.36	1.2J	<0.61	<3.02
PFHpS	<1.9	<0.41	<0.68	<3.01
PFNS	<1.82	<0.44	<0.60	<3.01
PFDS	<2.57	<0.45	<0.65	<3.01
PFDoS	<2.47	<0.46	<0.60	<3.01
FOSA	<1.55	<0.81	<0.73	<3.01
N-MeFOSA	<10	<0.51	<0.56	<3.01
N-MeFOSE	<2.81	<0.33	<0.53	<30.1
N-EtFOSE	<2.12	<0.49	<0.90	<30.1
4:2 FTSA	<1.90	<0.55	<0.47	<12
6:2 FTSA	70.6	57	45.7	51.1
8:2 FTSA	<2.62	<0.65	<0.51	<10.2
10:2 FTSA	NR	NR	NR	NR
DONA	<1.28	<0.51	<0.93	<12
GenX (HPFO-DA)	<1.92	<0.52	<0.50	<12
9Cl-PF3ONS	<1.82	<0.3	<0.48	<12.1
11Cl-PF3OUdS	<1.49	<0.43	<0.56	<12

ng/L = nanograms per liter (parts per trillion)

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Bold indicates laboratory detections

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PFOA (355-67-1) Perfluorooctanoic Acid (C8)

PFOS (1963-23-1) Perfluorooctanesulfonic Acid (C8)

PFBS (375-73-5) Perfluorobutanesulfonic Acid (C4)

PFHpA = (375-85-9) Perfluoroheptanoic Acid (C7)

PFHxS = (355-46-4) Perfluorohexanesulfonic Acid (C6)

PFNA (375-95-1) Perfluorononanoic Acid (C9)

PFDA (335-76-2) Perfluorodecanoic Acid (C10)

PFDaA (307-55-1) Perfluorododecanoic Acid (C12)

PFHxA (307-24-4) Perfluorohexanoic Acid (C6)

PFTeDA (376-06-7) Perfluorotetradecanoic Acid (C14)

PFTrDA (72629-94-8) Perfluorotridecanoic Acid (C13)

PFUnA (2058-94-8) Perfluoroundecanoic Acid (C11)

N-EtFOSAA (2991-50-6) N-ethylperfluorooctanesulfonamidoacetic Acid (C12)

N-MeFOSAA (2355-31-9) N-methylperfluorooctanesulfonamidoacetic Acid (C11)

PFBA (375-22-4) Perfluorobutanoic Acid (C4)

PFPeA (2706-90-3) Perfluoropentanoic Acid (C5)

PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)

PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)

PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)

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DONA (919005-14-4) 4,8-Dioxa-3H-perfluorononanoic acid (C7)

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9Cl-PF3ONS (756426-58-1) 9-chlorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)

11Cl-PF3OUdS (763051-92-9) 11-chloroicosaufluoro-3oxaundecane-1-sulfonic acid (C10)

TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT # E2305.27

Monitoring Well	MW-16			
	Lab	Pace Analytical		SGS
	State Lab of Hygiene			
Sampling Date	7/12/2022	7/12/2022	7/24/2023	7/12/2022
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)				
PFOA	3.99F	5.6	2.6	4.01
PFOS	<1.43	1.4J	0.79J	1.17J
PFBS	5.14F	6.6B	5.5	5.4
PFHpA	75.9	80	64.5	65.1
PFHxS	<1.42	0.59J	<0.53	0.464J
PFNA	<1.48	1.2J	<0.79	0.779J
PFDA	<1.63	<0.59	<0.60	<0.373
PFDoA	<2.71	<0.51	<0.48	<0.298
PFHxA	294	290D	353D	276
PFTeDA	<1.75	<0.66	<0.60	<0.373
PFTrDA	<1.93	<0.50	<0.62	<0.373
PFUnA	<2.22	<0.57	<0.48	<0.373
N-EtFOSA	<6.94	<0.64	<0.57	<1.04
N-EtFOSAA	<2.12	<0.58	<0.81	<0.373
N-MeFOSAA	<2.19	<0.46	<0.69	<0.373
PFBA	121	120	150	144
PFPeA	473	500D	633D	524
PFPeS	<1.36	<0.50	<0.6	<0.374
PFHpS	<1.90	<0.43	<0.66	<0.373
PFNS	<1.82	<0.47	<0.58	<0.373
PFDS	<2.57	<0.47	<0.64	<0.373
PFDoS	<2.47	<0.48	<0.59	<0.373
FOSA	<1.55	<0.86	<0.71	<0.373
N-MeFOSA	<10	<0.54	<0.55	<0.373
N-MeFOSE	<2.81	<0.35	<0.52	<0.373
N-EtFOSE	<2.12	<0.52	<0.88	<0.373
4:2 FTSA	<1.90	1.2J	0.66J	<1.49
6:2 FTSA	283	310D	224D	292
8:2 FTSA	<2.62	<0.69	<0.50	<1.27
10:2 FTSA	NR	NR	NR	NR
DONA	<1.28	<0.54	<0.91	<1.49
GenX (HPFO-DA)	<1.92	<0.56	<0.49	<1.49
9Cl-PF3ONS	<1.82	<0.32	<0.47	<1.49
11Cl-PF3OUdS	<1.49	<0.46	<0.55	<1.49

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PFBA (375-22-4) Perfluorobutanoic Acid (C4)

PFPeA (2706-90-3) Perfluoropentanoic Acid (C5)

PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)

PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)

PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)

PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)

PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)

FOSA (754-91-6) Perfluorooctanesulfonamide (C8)

N-EtFOSA (4151-50-2) N-ethylperfluorooctanesulfonamide (C10)

N-MeFOSA (31506-32-8) N-methylperfluorooctanesulfonamide (C9)

N-MeFOSE (24448-09-7) N-methylperfluorooctanesulfonamidoethanol (C11)

N-EtFOSE (1691-99-2) N-ethylperfluorooctanesulfonamidoethanol (C12)

4:2 FTSA (757124-72-4) 4:2 fluorotelomer sulfonate (C6)

6:2 FTSA (27619-97-2) 6:2 fluorotelomer sulfonate (C8)

8:2 FTSA (39108-34-4) 8:2 fluorotelomer sulfonate (C10)

10:2 FTSA (120226-60-0) 10:2 fluorotelomer sulfonate (C12)

DONA (919005-14-4) 4,8-Dioxa-3H-perfluorononanoic acid (C7)

GenX (13252-13-6) Hexafluoropropylene oxide dimer acid (C6)

9Cl-PF3ONS (756426-58-1) 9-chlorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)

11Cl-PF3OUdS (763051-92-9) 11-chloroeicosfluoro-3oxaundecane-1-sulfonic acid (C10)

**TABLE A.1.
GROUNDWATER ANALYTICAL RESULTS
THE SOLBERG COMPANY -SITE 2 - 1520 BROOKFIELD AVENUE, VILLAGE OF HOWARD, WISCONSIN
CLSE PROJECT E2305.27**

Monitoring Well	PZ-2			
	Lab	Pace Analytical		SGS
	State Lab of Hygiene	7/12/2022	7/24/2023	7/12/2022
Sampling Date	7/12/2022	7/12/2022	7/24/2023	7/12/2022
PERFLUOROALKYL & POLYFLUOROALKYL SUBSTANCES (PFAS) (ng/L)				
PFOA	1.68F	<0.62	<1.9	<4.26
PFOS	<1.43	<0.58	<1.5	<4.26
PFBS	<2.31	<0.50	<1.1	<4.26
PFHpA	<1.50	<0.59	<1.5	<4.26
PFHxS	<1.42	<0.54	<1.2	<4.26
PFNA	<1.48	<0.79	<1.7	<4.26
PFDA	<1.63	<0.60	<1.3	<4.26
PFDaA	<2.71	<0.52	<1.1	<3.41
PFHxA	<2.04	<0.47	<1.1	<4.26
PFTeDA	<1.75	<0.51	<1.3	<22.3
PFTrDA	<1.93	<0.66	<1.4	<4.26
PFUnA	<2.22	<0.58	<1.1	<4.26
N-EtFOSA	<6.94	<0.65	<1.3	NR
N-EtFOSAA	<2.12	<0.59	<1.8	<4.26
N-MeFOSAA	<2.19	<0.46	<1.5	<4.26
PFBA	<3.46	0.60J	<1.1	<17
PFPeA	<1.5	<0.47	<1.8	<8.52
PFPeS	<1.36	<0.51	<1.3	<4.28
PFHpS	<1.90	<0.44	<1.5	<4.26
PFNS	<1.82	<0.48	<1.3	<4.26
PFDS	<2.57	<0.48	<1.4	<4.26
PFDoS	<3.98	<0.49	<1.3	<4.26
FOSA	<1.55	<0.87	<1.6	<4.26
N-MeFOSA	<10	<0.55	<1.2	<5.65
N-MeFOSE	<2.81	<0.35	<1.1	<42.6
N-EtFOSE	<2.12	<0.53	<2	<42.6
4:2 FTSA	<1.90	<0.60	<1	<17
6:2 FTSA	<2.72	<0.69	<1.5	<15.4
8:2 FTSA	<2.62	<0.70	<1.1	<14.5
10:2 FTSA	NR	NR	NR	NR
DONA	<1.28	<0.55	<2	<17
GenX (HPFO-DA)	<1.92	<0.56	<1.1	<17
9Cl-PF3ONS	<1.82	<0.33	<1	<17.1
11Cl-PF3OUdS	<1.49	<0.47	<1.2	<17.1

ng/L = nanograms per liter (parts per trillion)

< = compound below laboratory detection limit

Bold indicates laboratory detections

B=Analyte detected in the field blank

F/J = result is between laboratory limit of detection and laboratory limit of quantitation

PFOA (355-67-1) Perfluorooctanoic Acid (C8)

PFOS (1963-23-1) Perfluorooctanesulfonic Acid (C8)

PFBS (375-73-5) Perfluorobutanesulfonic Acid (C4)

PFHpA = (375-85-9) Perfluoroheptanoic Acid (C7)

PFHxS = (355-46-4) Perfluorohexanesulfonic Acid (C6)

PFNA (375-95-1) Perfluorononanoic Acid (C9)

PFDA (335-76-2) Perfluorodecanoic Acid (C10)

PFDaA (307-55-1) Perfluorododecanoic Acid (C12)

PFHxA (307-24-4) Perfluorohexanoic Acid (C6)

PFTeDA (376-06-7) Perfluorotetradecanoic Acid (C14)

PFTrDA (72629-94-8) Perfluorotridecanoic Acid (C13)

PFUnA (2058-94-8) Perfluoroundecanoic Acid (C11)

N-EtFOSAA (2991-50-6) N-ethylperfluorooctanesulfonamidoacetic Acid (C12)

N-MeFOSAA (2355-31-9) N-methylperfluorooctanesulfonamidoacetic Acid (C11)

PFBA (375-22-4) Perfluorobutanoic Acid (C4)

PFPeA (2706-90-3) Perfluoropentanoic Acid (C5)

PFPeS (2706-91-4) Perfluoropentanesulfonic Acid (C5)

PFHpS (375-92-8) Perfluoroheptanesulfonic Acid (C7)

PFNS (68259-12-1) Perfluorononanesulfonic Acid (C9)

PFDS (335-77-3) Perfluorodecanesulfonic Acid (C10)

PFDoS (79780-39-5) Perfluorododecanesulfonic Acid (C12)

FOSA (754-91-6) Perfluorooctanesulfonamide (C8)

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9Cl-PF3ONS (756426-58-1) 9-chlorohexadecafluoro-3-oxaneonane-1-sulfonic acid (C8)

11Cl-PF3OUdS (763051-92-9) 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (C10)