DEPARTMENT OF THE ARMY
OFFICE OF THE DEPUTY CHIEF OF STAFF, G-9
600 ARMY PENTAGON
WASHINGTON, DC 20310-0600

03 December 2020

Mr. Bob Morse
USEPA Region II
Superfund Federal Facilities Section
290 Broadway, 18th Floor
New York, NY 10007-1866

Ms. Melissa Sweet
New York State Department of Environmental Conservation (NYSDEC)
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, NY 12233-7015

Mr. Mark Sergott
Bureau of Environmental Exposure Investigation
New York State Department of Health
Empire State Plaza Corning Tower, Room 1787
Albany, NY 12237

Dear Mr. Morse, Ms. Sweet, and Mr. Sergott:

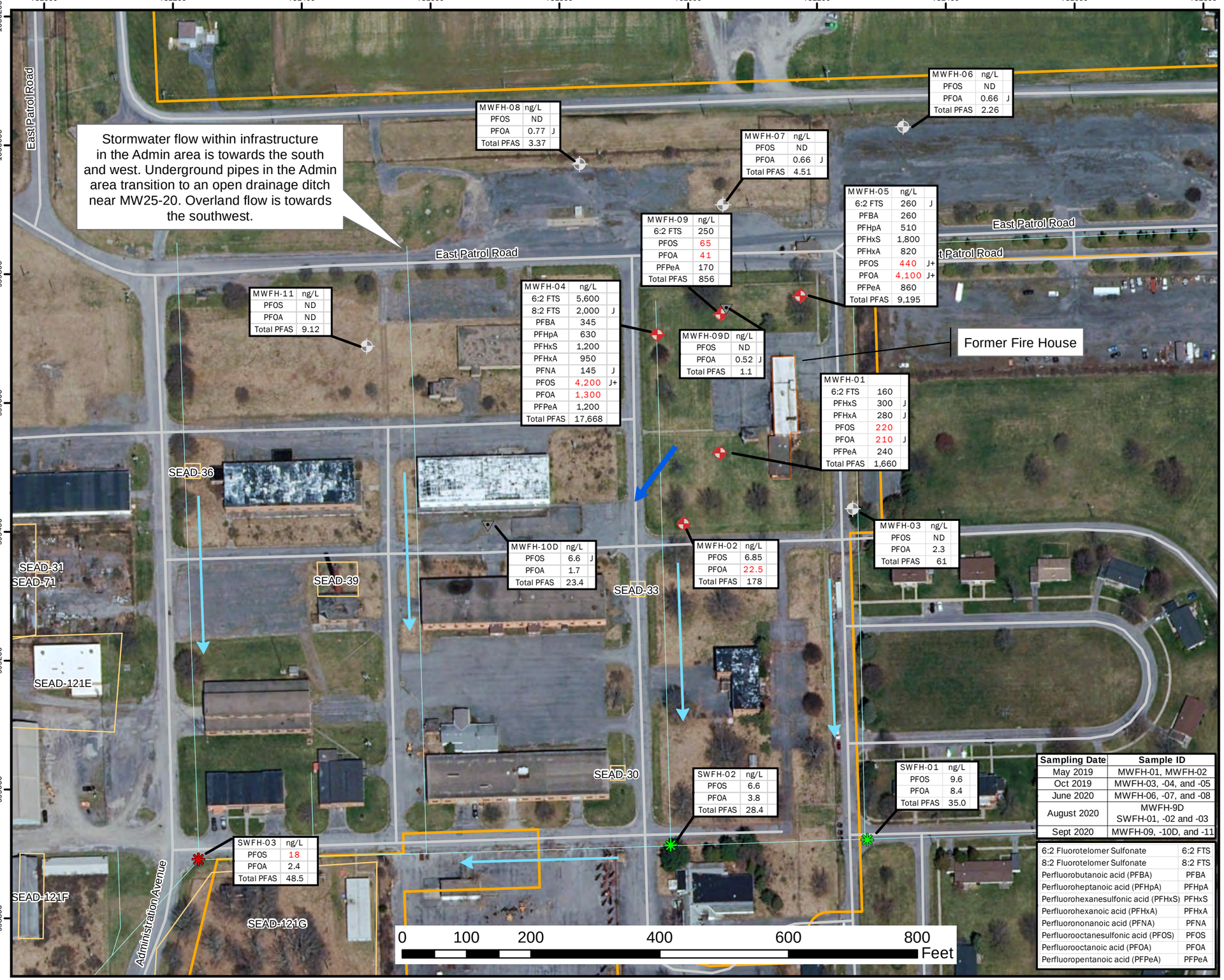
Please see the attached PFAS data summary for Seneca Army Depot. This submittal includes data tables and figures for groundwater, surface water, and soil collected at SEAD-25, the Fire House area, and SEAD-26. A formal report presenting analysis of the data will be prepared following the Spring 2021 sampling event. The Spring event will include groundwater sampling at all wells installed at these three areas.

If you have any questions about the attached document, please call me at 347-271-0226.

Sincerely,

Signed on behalf of
James T. Moore, PMP
Base Environmental Coordinator
Corps of Engineers, Project Manager

Figures



Sampling Date	Sample ID
May 2019	MWFH-01, MWFH-02
Oct 2019	MWFH-03, -04, and -05
June 2020	MWFH-06, -07, and -08
August 2020	MWFH-9D SWFH-01, -02 and -03
Sept 2020	MWFH-09, -10D, and -11

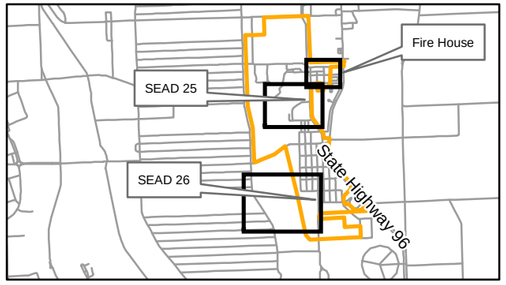
6:2 Fluorotelomer Sulfonate	6:2 FTS
8:2 Fluorotelomer Sulfonate	8:2 FTS
Perfluorobutanoic acid (PFBA)	PFBA
Perfluoroheptanoic acid (PFHpA)	PFHpA
Perfluorohexanesulfonic acid (PFHxS)	PFHxS
Perfluorohexanoic acid (PFHxA)	PFHxA
Perfluorononanoic acid (PFNA)	PFNA
Perfluorooctanesulfonic acid (PFOS)	PFOS
Perfluorooctanoic acid (PFOA)	PFOA
Perfluoropentanoic acid (PFPeA)	PFPeA

Legend

Samples (Red symbol if exceedance)

- Till / Weathered Bedrock MW
- Shallow Bedrock MW
- Stormwater Sample
- SEAD Boundary
- Stormwater Drainage
- Approximate PID Area Boundary where GW use is prohibited
- Former Fire House
- Road
- Groundwater Flow Direction
- Surface Water Flow Direction

Notes:
1) Concentrations shown as ng/L.
2) PFOA or PFOS red if >= 10 ng/L.
3) Other PFAS compounds shown if >= 100 ng/L.
4) Predominant groundwater flow direction in the area of this figure is to the west and southwest.
ng/L = nanograms per liter
Valid qualifiers shown.
ND = Non-detect
J = Estimated
J+ = Estimated, possibly biased high



DATA SOURCES
-Image: ESRI, 2016
-Parsons: Sample Locations, Boundaries

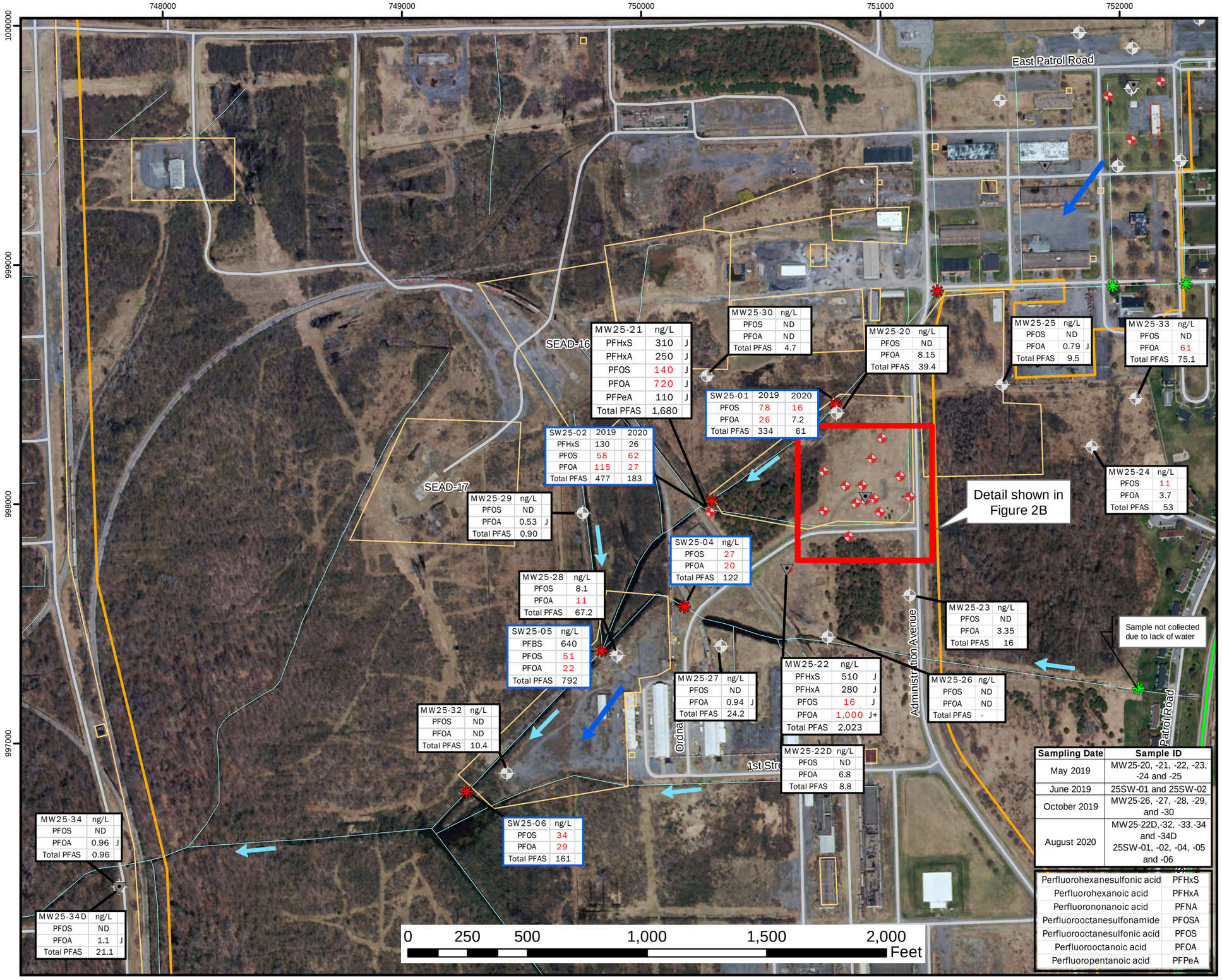
SENECA ARMY DEPOT ACTIVITY
PFAS EXPANDED SITE INVESTIGATION

FIGURE 1 - FIRE HOUSE - PFAS GROUNDWATER AND SURFACE WATER RESULTS

1 inch = 150 feet | November 2020

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet

PATH: \\MABOS07FS01\Projects\PIT\Projects\Huntsville WERS\Seneca LTM, TO 23\02 - GIS\PFAS\ESI\ESI_R3b\Maps\PFAS_FH_GWR3Results_110220.mxd



Sampling Date	Sample ID
May 2019	MW25-20, -21, -22, -23, -24 and -25
June 2019	25SW-01 and 25SW-02
October 2019	MW25-26, -27, -28, -29, and -30
August 2020	MW25-22D,-32, -33,-34 and -34D 25SW-01, -02, -04, -05 and -06

Perfluorohexanesulfonic acid	PFHxS
Perfluorohexanoic acid	PFHxA
Perfluorononanoic acid	PFNA
Perfluorooctanesulfonamide	PFOSA
Perfluorooctanesulfonic acid	PFOS
Perfluorooctanoic acid	PFOA
Perfluoropentanoic acid	PFPeA

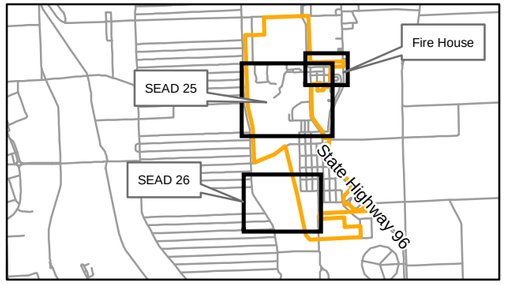
Legend

Samples (Red symbol if exceedance)

- Till / Weathered Bedrock
- Shallow Bedrock
- Stormwater (Fire House only) / Surface Water
- SEAD Boundary
- Stormwater Drainage
- Approximate PID Area Boundary where GW use is prohibited
- FireHouse
- Road
- Groundwater Flow Direction
- Surface Water Flow Direction

Notes:

1) Concentrations shown as ng/L.
2) PFOA or PFOS red if >= 10 ng/L.
3) Other PFAS compounds shown if >= 100 ng/L.
4) Predominant groundwater flow direction in the area of this figure is to the southwest.
5) If more than one sample was collected at a location, the year of collection is shown. All other locations were sampled once.
ng/L = nanograms per liter
Valid qualifiers shown.
ND = Non-detect



DATA SOURCES
-Image: ESRI, 2016
-Parsons: Sample Locations, Boundaries

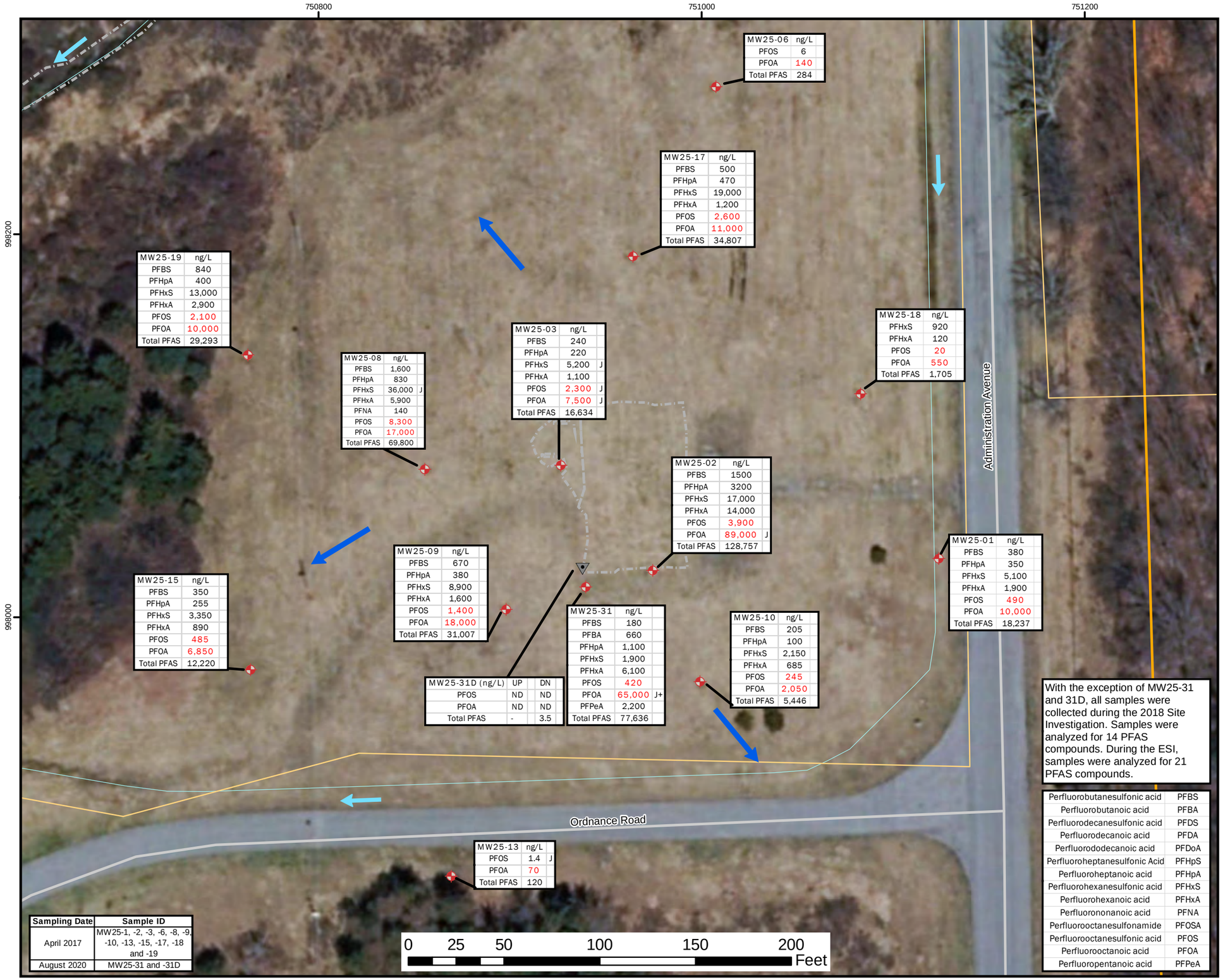
SENECA ARMY DEPOT ACTIVITY
PFAS EXPANDED SITE INVESTIGATION

FIGURE 2A - SEAD 25 - PFAS GROUNDWATER AND SURFACE WATER RESULTS

1 inch = 400 feet | November 2020

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet

PATH: \\MABOS07FS01\Projects\PIT\Projects\Huntsville WERS\Seneca LTM, TO 23\02 - GIS\PFAS\ESI\ESI_R3b\Maps\PFAS_SEAD25_GWR3Results_110220.mxd



MW25-06	ng/L
PFOS	6
PFOA	140
Total PFAS	284

MW25-17	ng/L
PFBS	500
PFHpA	470
PFHxS	19,000
PFHxA	1,200
PFOS	2,600
PFOA	11,000
Total PFAS	34,807

MW25-19	ng/L
PFBS	840
PFHpA	400
PFHxS	13,000
PFHxA	2,900
PFOS	2,100
PFOA	10,000
Total PFAS	29,293

MW25-03	ng/L	
PFBS	240	
PFHpA	220	
PFHxS	5,200	J
PFHxA	1,100	
PFOS	2,300	J
PFOA	7,500	J
Total PFAS	16,634	

MW25-18	ng/L
PFHxS	920
PFHxA	120
PFOS	20
PFOA	550
Total PFAS	1,705

MW25-08	ng/L	
PFBS	1,600	
PFHpA	830	
PFHxS	36,000	J
PFHxA	5,900	
PFNA	140	
PFOS	8,300	
PFOA	17,000	
Total PFAS	69,800	

MW25-02	ng/L	
PFBS	1500	
PFHpA	3200	
PFHxS	17,000	
PFHxA	14,000	
PFOS	3,900	
PFOA	89,000	J
Total PFAS	128,757	

MW25-01	ng/L
PFBS	380
PFHpA	350
PFHxS	5,100
PFHxA	1,900
PFOS	490
PFOA	10,000
Total PFAS	18,237

MW25-15	ng/L
PFBS	350
PFHpA	255
PFHxS	3,350
PFHxA	890
PFOS	485
PFOA	6,850
Total PFAS	12,220

MW25-09	ng/L
PFBS	670
PFHpA	380
PFHxS	8,900
PFHxA	1,600
PFOS	1,400
PFOA	18,000
Total PFAS	31,007

MW25-31	ng/L	
PFBS	180	
PFBA	660	
PFHpA	1,100	
PFHxS	1,900	
PFHxA	6,100	
PFOS	420	
PFOA	65,000	J+
PFPeA	2,200	
Total PFAS	77,636	

MW25-31D (ng/L)	UP	DN
PFOS	ND	ND
PFOA	ND	ND
Total PFAS	-	3.5

MW25-10	ng/L
PFBS	205
PFHpA	100
PFHxS	2,150
PFHxA	685
PFOS	245
PFOA	2,050
Total PFAS	5,446

MW25-13	ng/L	
PFOS	1.4	J
PFOA	70	
Total PFAS	120	

Sampling Date	Sample ID
April 2017	MW25-1, -2, -3, -6, -8, -9, -10, -13, -15, -17, -18 and -19
August 2020	MW25-31 and -31D

With the exception of MW25-31 and 31D, all samples were collected during the 2018 Site Investigation. Samples were analyzed for 14 PFAS compounds. During the ESI, samples were analyzed for 21 PFAS compounds.

Perfluorobutanesulfonic acid	PFBS
Perfluorobutanoic acid	PFBA
Perfluorodecanesulfonic acid	PFDS
Perfluorodecanoic acid	PFDA
Perfluorododecanoic acid	PFDoA
Perfluoroheptanesulfonic Acid	PFHpS
Perfluoroheptanoic acid	PFHpA
Perfluorohexanesulfonic acid	PFHxS
Perfluorohexanoic acid	PFHxA
Perfluorononanoic acid	PFNA
Perfluorooctanesulfonamide	PFOSA
Perfluorooctanesulfonic acid	PFOS
Perfluorooctanoic acid	PFOA
Perfluoropentanoic acid	PFPeA

Legend

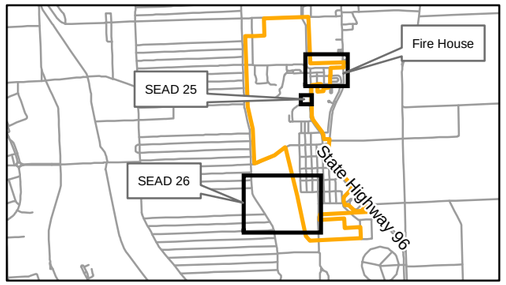
Sample (Red symbol if exceedance)

- Till / Weathered Bedrock Well
- Shallow Bedrock Well
- RA Excavation Extents
- SEAD Boundary
- Stormwater Drainage
- Approximate PID Area Boundary where GW use is prohibited
- Road
- Groundwater Flow Direction
- Surface Water Flow Direction

Notes:

1) Concentrations shown as ng/L.
2) PFOA or PFOS red if >= 10 ng/L.
3) Other PFAS compounds shown if >= 100 ng/L.
4) Predominant groundwater flow direction in the area of this figure is radial near the RA excavation area transitioning towards the southwest.

ng/L = nanograms per liter
Valid qualifiers shown.
ND = Non-detect
J = Estimated
J+ = Estimated, possibly biased high



DATA SOURCES
-Image: ESRI, 2016
-Parsons: Sample Locations, Boundaries

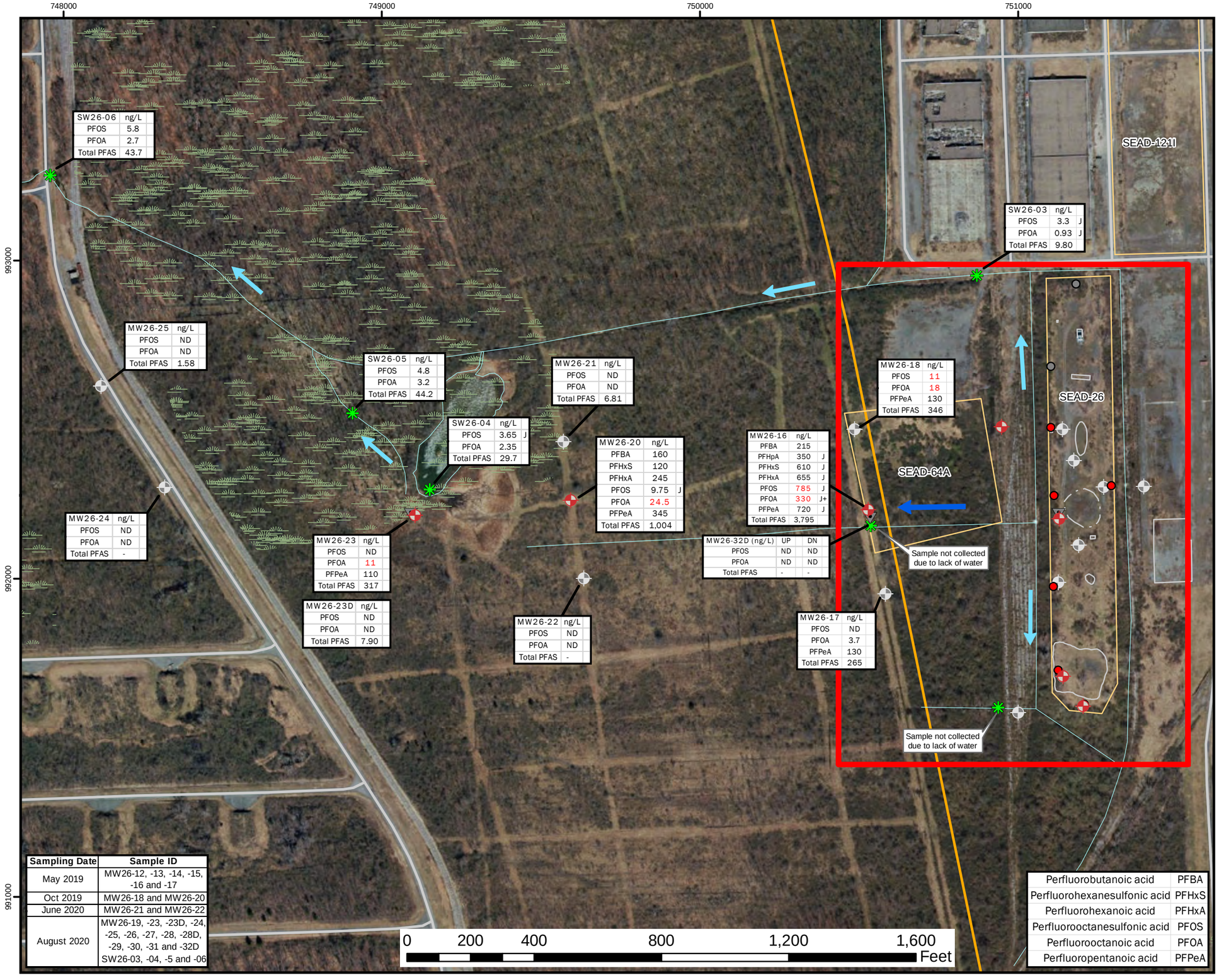
SENECA ARMY DEPOT ACTIVITY
PFAS EXPANDED SITE INVESTIGATION

FIGURE 2B - SEAD 25 DETAIL - PFAS GROUNDWATER AND SURFACE WATER RESULTS

1 inch = 50 feet | November 2020

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet

PATH: \\MABOS07FS01\Projects\PIT\Projects\Huntsville WERS\Seneca LTM, TO 23\02 - GIS\PFAS\ESI\ESI_R3b\Maps\PFAS_SEAD25_PadArea_GWR3Results_110620.mxd



Sampling Date	Sample ID
May 2019	MW26-12, -13, -14, -15, -16 and -17
Oct 2019	MW26-18 and MW26-20
June 2020	MW26-21 and MW26-22
August 2020	MW26-19, -23, -23D, -24, -25, -26, -27, -28, -28D, -29, -30, -31 and -32D SW26-03, -04, -5 and -06

Perfluorobutanoic acid	PFBA
Perfluorohexanesulfonic acid	PFHxS
Perfluorohexanoic acid	PFHxA
Perfluorooctanesulfonic acid	PFOS
Perfluorooctanoic acid	PFOA
Perfluoropentanoic acid	PFPeA

Legend

Monitoring Wells (Red symbol if exceedance)

- Till / Weathered Bedrock
- Shallow Bedrock

Temporary Monitoring Wells (Abandoned) (Red symbol if exceedance during SI)

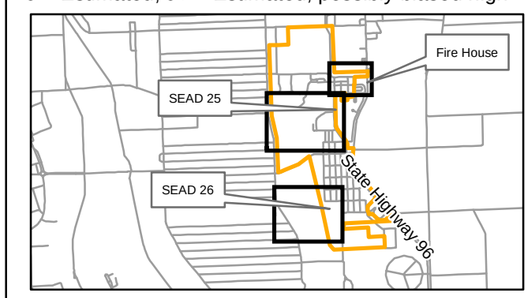
- Till / Weathered Bedrock

- Surface Water Sample (Red symbol if exceedance)
- Former SEAD 26 Features
- SEAD Boundary
- Drainage Feature
- Low-lying areas
- Road
- Approximate PID Area Boundary where GW use is prohibited
- Groundwater Flow Direction
- Surface Water Flow Direction

Notes:

1) Concentrations shown as ng/L.
2) PFOA or PFOS **red** if >= 10 ng/L.
3) Other PFAS compounds shown if >= 100 ng/L.
4) Predominant groundwater flow direction in the area of this figure is to the west.

ng/L = nanograms per liter
Valid qualifiers shown.
ND = Non-detect
J = Estimated; J+ = Estimated, possibly biased high



DATA SOURCES
-NYS Regulatory Freshwater Wetlands: CUGIR, 2020
-Image: ESRI, 2016
-Parsons: Sample Locations, Boundaries

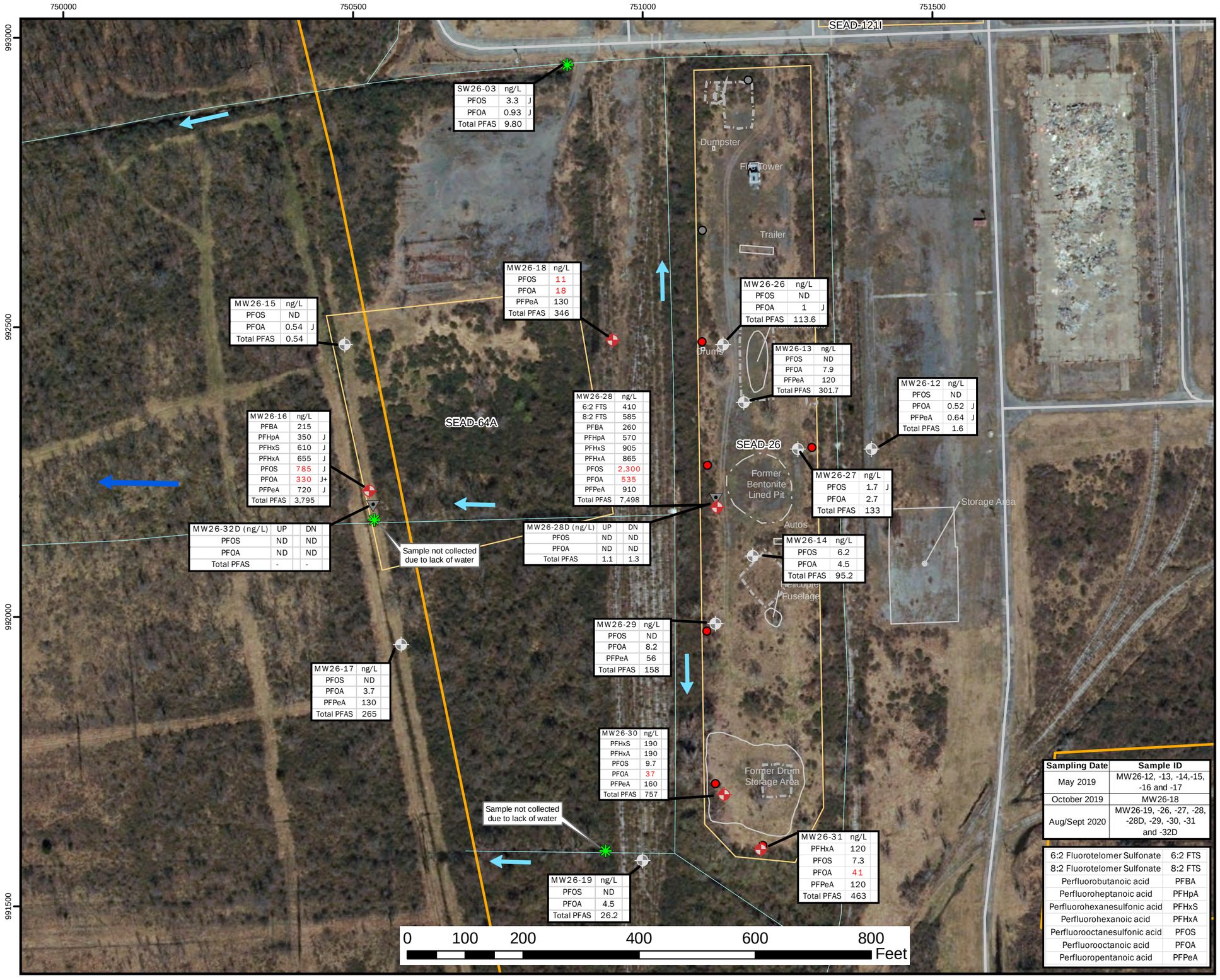
SENECA ARMY DEPOT ACTIVITY
PFAS EXPANDED SITE INVESTIGATION

FIGURE 3A - SEAD 26 - PFAS GROUNDWATER AND SURFACE WATER RESULTS

1 inch = 300 feet	November 2020

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet

PATH: \\MABOS07FS01\Projects\PIT\Projects\Huntsville WERS\Seneca LTM, TO 23\02 - GIS\PFAS\ES\ESI_R3b\Maps\PFAS_SEAD26_GWR3Results_110420.mxd



Sampling Date	Sample ID
May 2019	MW26-12, -13, -14,-15, -16 and -17
October 2019	MW26-18
Aug/Sept 2020	MW26-19, -26, -27, -28, -28D, -29, -30, -31 and -32D

6:2 Fluorotelomer Sulfonate	6:2 FTS
8:2 Fluorotelomer Sulfonate	8:2 FTS
Perfluorobutanoic acid	PFBA
Perfluoroheptanoic acid	PFHpA
Perfluorohexanesulfonic acid	PFHxS
Perfluorohexanoic acid	PFHxA
Perfluorooctanesulfonic acid	PFOS
Perfluorooctanoic acid	PFOA
Perfluoropentanoic acid	PFPeA

Legend

Monitoring Wells (Red symbol if exceedance)

- Till / Weathered Bedrock
- Shallow Bedrock

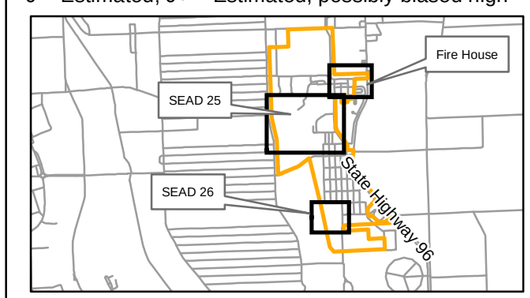
Temporary Monitoring Wells (Abandoned) (Red symbol if exceedance during SI)

- Till / Weathered Bedrock
- Surface Water Sample (Red symbol if exceedance)
- RA Excavation Extents
- Former SEAD 26 Features
- SEAD Boundary
- Drainage Feature
- Approximate PID Area Boundary where GW use is prohibited
- Road
- Groundwater Flow Direction
- Surface Water Flow Direction

Notes:

1) Concentrations shown as ng/L.
2) PFOA or PFOS **red** if >= 10 ng/L.
3) Other PFAS compounds shown if >= 100 ng/L.
4) Predominant groundwater flow direction in the area of this figure is to the west.

ng/L = nanograms per liter
Valid qualifiers shown.
ND = Non-detect
J = Estimated; J+ = Estimated, possibly biased high



DATA SOURCES
-Image: ESRI, 2016
-Parsons: Sample Locations, Boundaries

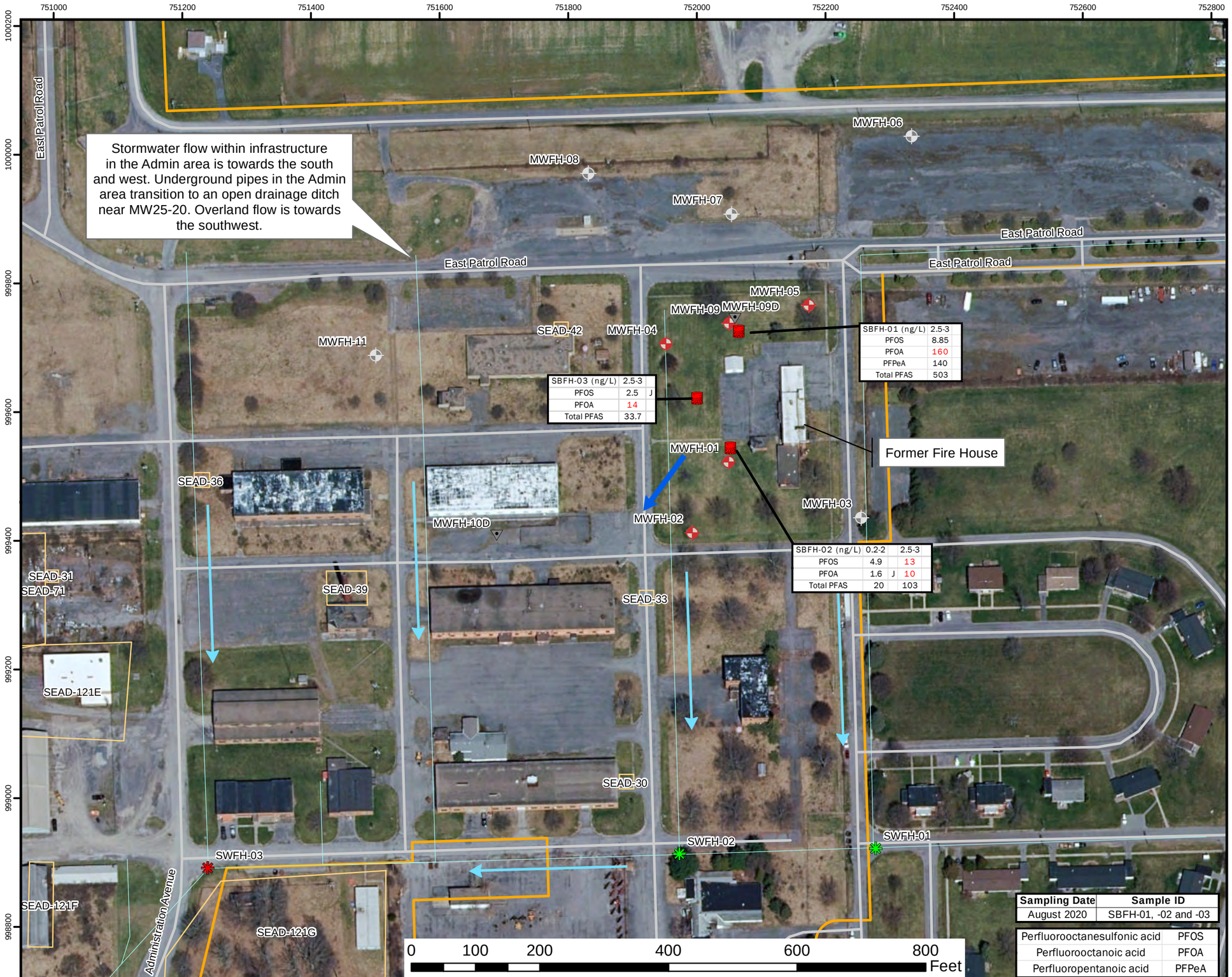
SENECA ARMY DEPOT ACTIVITY
PFAS EXPANDED SITE INVESTIGATION

FIGURE 3B - SEAD 26 DETAIL - PFAS GROUNDWATER AND SURFACE WATER RESULTS

1 inch = 165 feet | November 2020

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet

PATH: \\MABOS07FS01\Projects\PIT\Projects\Huntsville WERS\Seneca LTM, TO 23\02 - GIS\PFAS\ESI\ESI_R3b\Maps\PFAS_SEAD26_PadArea_GWR3Results_110420.mxd



Sampling Date	Sample ID
August 2020	SBFH-01, -02 and -03

Perfluorooctanesulfonic acid	PFOS
Perfluorooctanoic acid	PFOA
Perfluoropentanoic acid	PFPeA

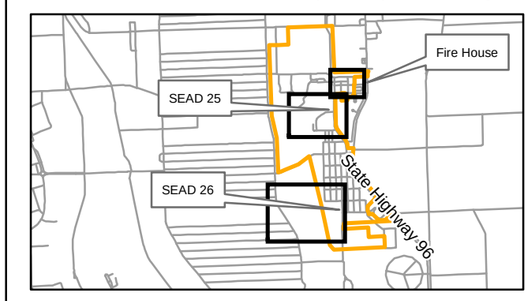
Legend

Samples (Red symbol if exceedance)

- Till / Weathered Bedrock MW
- Shallow Bedrock MW
- Stormwater Sample
- Soil Sample (depth in ft bgs)
- SEAD Boundary
- Stormwater Drainage
- Approximate PID Area Boundary where GW use is prohibited
- Former Fire House
- Road
- Groundwater Flow Direction
- Surface Water Flow Direction

Notes:

1) Concentrations shown as ng/L.
2) PFOA or PFOS red if >= 10 ng/L.
3) Other PFAS compounds shown if >= 100 ng/L.
4) Predominant groundwater flow direction in the area of this figure is to the west and southwest.
5) Soil samples were analyzed by SPLP 1312/3535 extraction.
ng/L = nanograms per liter
Valid qualifiers shown.
ND = Non-detect
J = Estimated; J+ = Estimated, possibly biased high



DATA SOURCES
-Image: ESRI, 2016
-Parsons: Sample Locations, Boundaries

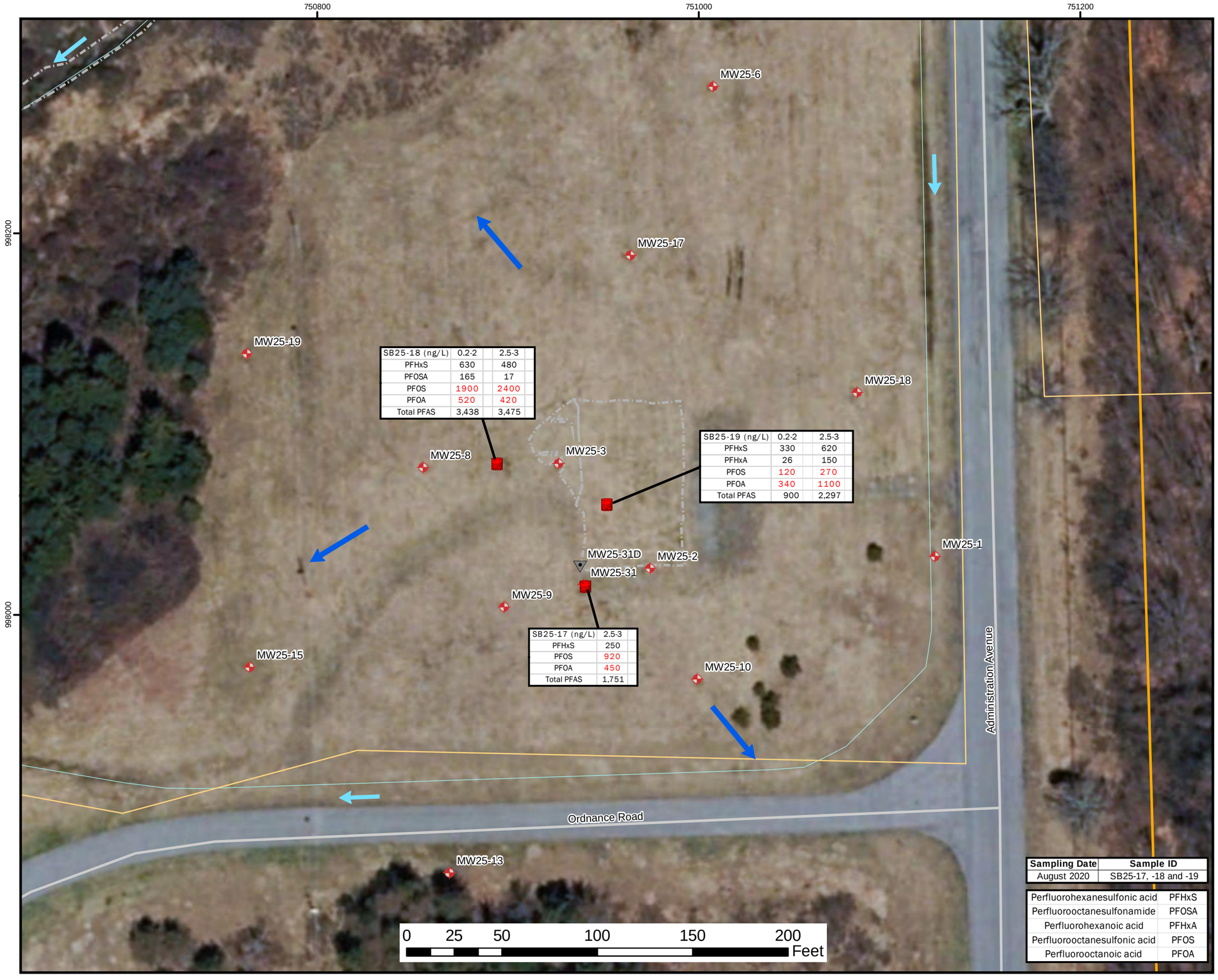
SENECA ARMY DEPOT ACTIVITY
PFAS EXPANDED SITE INVESTIGATION

FIGURE 4 - FIRE HOUSE
PFAS SOIL SPLP LEACHATE RESULTS

1 inch = 150 feet	November 2020

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet

PATH: \\MABOS07FS01\Projects\PIT\Projects\Huntsville WERS\Seneca LTM, TO 23\02 - GIS\PFAS\ES\ESI_R3b\Maps\PFAS_FH_SOILR3Results_110920.mxd



SB25-18 (ng/L)	0.2-2	2.5-3
PFHxS	630	480
PFOSA	165	17
PFOS	1900	2400
PFOA	520	420
Total PFAS	3,438	3,475

SB25-19 (ng/L)	0.2-2	2.5-3
PFHxS	330	620
PFHxA	26	150
PFOS	120	270
PFOA	340	1100
Total PFAS	900	2,297

SB25-17 (ng/L)	2.5-3
PFHxS	250
PFOS	920
PFOA	450
Total PFAS	1,751

Sampling Date	Sample ID
August 2020	SB25-17, -18 and -19

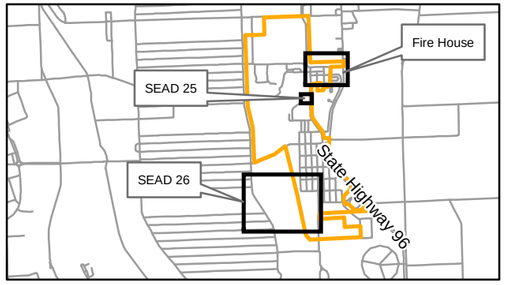
Perfluorohexanesulfonic acid	PFHxS
Perfluorooctanesulfonamide	PFOSA
Perfluorohexanoic acid	PFHxA
Perfluorooctanesulfonic acid	PFOS
Perfluorooctanoic acid	PFOA

Legend

Samples (Red symbol if exceedance)

- Shallow Bedrock
- Till / Weathered Bedrock
- Soil Sample (depth in ft bgs)
- RA Excavation Extents
- SEAD Boundary
- Stormwater Drainage
- Approximate PID Area Boundary where GW use is prohibited
- Road
- Groundwater Flow Direction
- Surface Water Flow Direction

Notes:
1) Concentrations shown as ng/L.
2) PFOA or PFOS red if >= 10 ng/L.
3) Other PFAS compounds shown if >= 100 ng/L.
4) Predominant groundwater flow direction in the area of this figure is radial away from the former pad and to the southwest.
5) Soil samples were analyzed by SPLP 1312/3535 extraction.
ng/L = nanograms per liter
Valid qualifiers shown.
ND = Non-detect
J = Estimated; J+ = Estimated, possibly biased high



DATA SOURCES
-Image: ESRI, 2016
-Parsons: Sample Locations, Boundaries

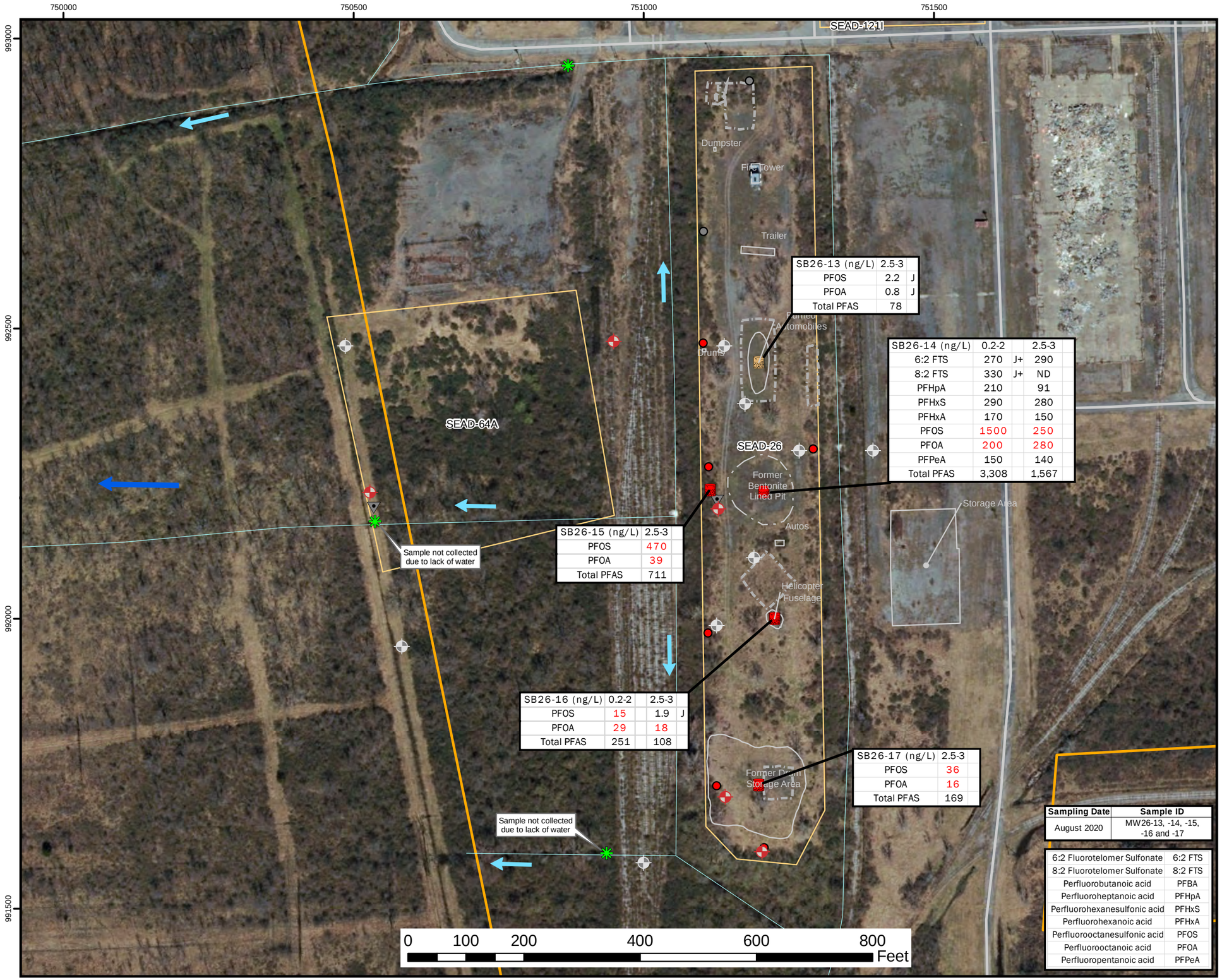
SENECA ARMY DEPOT ACTIVITY
PFAS EXPANDED SITE INVESTIGATION

FIGURE 5 - SEAD 25
PFAS SOIL SPLP LEACHATE RESULTS

1 inch = 50 feet | November 2020

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet

PATH: \\MABOS07FS01\Projects\PIT\Projects\Huntsville WERS\Seneca LTM, TO 23\02 - GIS\PFAS\ESI\ESI_R3b\Maps\PFAS_SEAD25_PadArea_SOILR3Results_110920.mxd



SB26-13 (ng/L)	2.5-3	
PFOS	2.2	J
PFOA	0.8	J
Total PFAS	78	

SB26-14 (ng/L)	0.2-2		2.5-3	
6:2 FTS	270	J+	290	
8:2 FTS	330	J+	ND	
PFHpA	210		91	
PFHxS	290		280	
PFHxA	170		150	
PFOS	1500		250	
PFOA	200		280	
PFPeA	150		140	
Total PFAS	3,308		1,567	

SB26-15 (ng/L)	2.5-3
PFOS	470
PFOA	39
Total PFAS	711

SB26-16 (ng/L)	0.2-2		2.5-3	
PFOS	15		1.9	J
PFOA	29		18	
Total PFAS	251		108	

SB26-17 (ng/L)	2.5-3
PFOS	36
PFOA	16
Total PFAS	169

Sampling Date	Sample ID
August 2020	MW26-13, -14, -15, -16 and -17

6:2 Fluorotelomer Sulfonate	6:2 FTS
8:2 Fluorotelomer Sulfonate	8:2 FTS
Perfluorobutanoic acid	PFBA
Perfluoroheptanoic acid	PFHpA
Perfluorohexanesulfonic acid	PFHxS
Perfluorohexanoic acid	PFHxA
Perfluorooctanesulfonic acid	PFOS
Perfluorooctanoic acid	PFOA
Perfluoropentanoic acid	PFPeA

Legend

Samples (Red symbol if exceedance)

- Till / Weathered Bedrock
- Shallow Bedrock

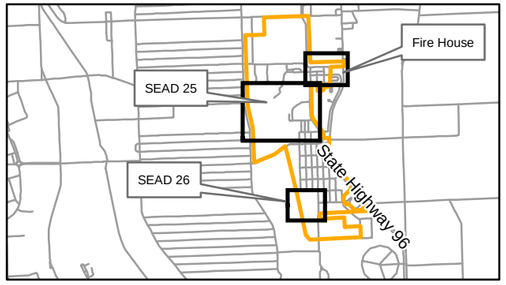
Temporary Monitoring Wells (Abandoned) (Red symbol if exceedance)

- Till / Weathered Bedrock
- Surface Water Sample (Red symbol if exceedance)
- Soil Sample (depth in ft bgs)
- RA Excavation Extents
- Former SEAD 26 Features
- SEAD Boundary
- Drainage Feature
- Approximate PID Area Boundary where GW use is prohibited
- Road
- Groundwater Flow Direction
- Surface Water Flow Direction

Notes:

1) Concentrations shown as ng/L.
2) PFOA or PFOS **red** if >= 10 ng/L.
3) Other PFAS compounds shown if >= 100 ng/L.
4) Predominant groundwater flow direction in the area of this figure is to the southwest.

ng/L = nanograms per liter
Valid qualifiers shown.
ND = Non-detect
J = Estimated; J+ = Estimated, possibly biased high



DATA SOURCES
-Image: ESRI, 2016
-Parsons: Sample Locations, Boundaries

SENECA ARMY DEPOT ACTIVITY
PFAS EXPANDED SITE INVESTIGATION

FIGURE 6 - SEAD 26 DETAIL
PFAS SOIL SPLP LEACHATE RESULTS

1 inch = 165 feet | November 2020

Coordinate System: NAD 1983 StatePlane New York Central FIPS 3102 Feet

PATH: \\MABOS07FS01\Projects\PIT\Projects\Huntsville WERS\Seneca LTM, TO 23\02 - GIS\PFAS\ESI\ESI_R3b\Maps\PFAS_SEAD26_PadArea_SOILR3Results_111020.mxd

Tables

Table 1 - Groundwater Results
Fire House PFAS ESI
Seneca Army Depot Activity

								Area	FIRE HOUSE		FIRE HOUSE		FIRE HOUSE		FIRE HOUSE	
								Loc ID	MWFH-01		MWFH-02		MWFH-02		MWFH-03	
								Matrix	GW		GW		GW		GW	
								Sample ID	FHESI20001		FHESI20002		FHESI20004		FHESI20003	
								Sample Depth Interval (FT)	--		--		--		--	
								Sample Date	5/24/2019		5/24/2019		5/24/2019		10/16/2019	
								QC Type	SA		SA		DU		SA	
								Study ID	PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI	
Parameter	**Unit**	**Max Detected Value**		**Max Detected Loc ID**	**Number of Detects**	**Number of Analyses**	**NYS MCL**	**Number of Exceedances**	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Per- and polyfluoroalkyl substances (PFAS)																
6:2 FTS	NG/L	6,200		MWFH-04	7	16			**160**		7.4	J	6.7	J	19	U
8:2 FTS	NG/L	2,100		MWFH-04	4	16			27		9.5	U	9.4	U	9.7	U
N-ethyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	16			9.4	U	9.5	U	9.4	U	9.7	U
N-methyl perfluorooctane sulfonamidoacetic acid	NG/L	4	J	MWFH-01	1	16			4	J	9.5	U	9.4	U	9.7	U
Perfluorobutanesulfonic acid (PFBS)	NG/L	87		MWFH-05	7	16			24		5.1		4.8		0.97	U
Perfluorobutyric acid (PFBA)	NG/L	350		MWFH-04	12	16			75		12		11	J-	27	
Perfluorodecanesulfonic acid (PFDS)	NG/L	0			0	16			1.4	U	1.4	U	1.4	U	1.5	U
Perfluorodecanoic acid (PFDA)	NG/L	0.52	J	MWFH-09	2	16			0.5	J	0.95	U	0.94	U	0.97	U
Perfluorododecanoic acid (PFDoA)	NG/L	0			0	16			1.4	U	1.4	U	1.4	U	1.5	U
Perfluoroheptanesulfonic Acid (PFHpS)	NG/L	48	J	MWFH-04	6	16			4.7		0.35	J	0.94	U	0.97	U
Perfluoroheptanoic acid (PFHpA)	NG/L	630		MWFH-04	10	16			99		15		16		1	J
Perfluorohexanesulfonic acid (PFHxS)	NG/L	1,800		MWFH-05	11	16			**300**	**J**	40		37		0.94	J
Perfluorohexanoic acid (PFHxA)	NG/L	980		MWFH-04	10	16			**280**	**J**	35		32		10	
Perfluorononanoic acid (PFNA)	NG/L	150	J	MWFH-04	6	16			7.5		1.4	U	1.4	U	1.5	U
Perfluorooctane Sulfonamide (FOSA)	NG/L	8.3		MWFH-01	1	16			8.3		2.8	U	2.8	U	2.9	U
Perfluorooctanesulfonic acid (PFOS)	NG/L	4,600	J+	MWFH-04	8	16	10	5	**220**		7.4		6.3		2.9	U
Perfluorooctanoic acid (PFOA)	NG/L	4,100	J+	MWFH-05	15	16	10	7	**210**	**J**	**23**		**22**		2.3	
Perfluoropentanoic acid (PFPA)	NG/L	1,200		MWFH-04	11	16			**240**		37		37		20	
Perfluorotetradecanoic acid (PFTeA)	NG/L	0			0	16			2.8	U	2.8	U	2.8	U	2.9	U
Perfluorotridecanoic Acid (PFTriA)	NG/L	0			0	16			2.8	U	2.8	U	2.8	U	2.9	U
Perfluoroundecanoic acid (PFUnA)	NG/L	0			0	16			1.4	U	1.4	U	1.4	U	1.5	U
Total PFAS	NG/L	18,793		MWFH-04	--	--			1,660		182		173		61.2	

Footnotes:

1) Number of analyses is the number of detected and non-detected results. Sample duplicate pairs have not been averaged.
2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during data validation.
[blank] = detect, i.e. detected chemical result value.
U = non-detect, i.e. not detected at or above this value.
UJ=The compound was not detected: however, the results is estimated because of discrepancies in meeting certain analyte-specific QC criteria.
J+ = The result is an estimated quantity, but the result may be biased high.
J- = The result is an estimated quantity, but the result may be biased low.
J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the criteria that are present.
- Results in bold **red** color represent values that are above the NYS MCL for PFOA or PFOS [10 ng/L]. ####
- **Bold** values represent results that are at or above DEC guidance for individual PFAS [100 ng/L]. ####
- Shaded values represent results that are at or above DEC guidance for total PFAS [500 ng/L]. ###

4) Criteria action level source document and web address as of 01 December 2020.
- NY State Department of Health MCL (11-2020)
https://regs.health.ny.gov/sites/default/files/proposed-regulations/Maximum%20Contaminant%20Levels%20%28MCLs%29.pdf

Table 1 - Groundwater Results
Fire House PFAS ESI
Seneca Army Depot Activity

								Area	FIRE HOUSE		FIRE HOUSE		FIRE HOUSE		FIRE HOUSE	
								Loc ID	MWFH-04		MWFH-04		MWFH-05		MWFH-06	
								Matrix	GW		GW		GW		GW	
								Sample ID	FHESI20005		FHESI20007		FHESI20006		FHESI20008	
								Sample Depth Interval (FT)	--		--		--		--	
								Sample Date	10/16/2019		10/16/2019		10/18/2019		6/29/2020	
								QC Type	SA		DU		SA		SA	
								Study ID	PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI	
Parameter	**Unit**	**Max Detected Value**		**Max Detected Loc ID**	**Number of Detects**	**Number of Analyses**	**NYS MCL**	**Number of Exceedances**	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Per- and polyfluoroalkyl substances (PFAS)																
6:2 FTS	NG/L	6,200		MWFH-04	7	16			**5,000**		**6,200**		**260**	**J**	19	U
8:2 FTS	NG/L	2,100		MWFH-04	4	16			**1,900**	**J**	**2,100**		190	U	9.5	U
N-ethyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	16			980	U	1,000	U	190	U	9.5	U
N-methyl perfluorooctane sulfonamidoacetic acid	NG/L	4	J	MWFH-01	1	16			980	U	1,000	U	190	U	9.5	U
Perfluorobutanesulfonic acid (PFBS)	NG/L	87		MWFH-05	7	16			53	J	**55**	**J**	87		0.95	U
Perfluorobutyric acid (PFBA)	NG/L	350		MWFH-04	12	16			**350**		**340**		**260**		1.4	U
Perfluorodecanesulfonic acid (PFDS)	NG/L	0			0	16			150	U	150	U	29	U	1.4	U
Perfluorodecanoic acid (PFDA)	NG/L	0.52	J	MWFH-09	2	16			98	U	100	U	19	U	0.95	U
Perfluorododecanoic acid (PFDoA)	NG/L	0			0	16			150	U	150	U	29	U	1.4	U
Perfluoroheptanesulfonic Acid (PFHpS)	NG/L	48	J	MWFH-04	6	16			39	J	**48**	**J**	16	J	0.95	U
Perfluoroheptanoic acid (PFHpA)	NG/L	630		MWFH-04	10	16			**630**		**630**		**510**		1.4	U
Perfluorohexanesulfonic acid (PFHxS)	NG/L	1,800		MWFH-05	11	16			**1,200**		**1,200**		**1,800**		1.9	U
Perfluorohexanoic acid (PFHxA)	NG/L	980		MWFH-04	10	16			**920**		**980**		**820**		1.9	U
Perfluorononanoic acid (PFNA)	NG/L	150	J	MWFH-04	6	16			**150**	**J**	**140**	**J**	42		1.4	U
Perfluorooctane Sulfonamide (FOSA)	NG/L	8.3		MWFH-01	1	16			290	U	300	U	58	U	2.8	U
Perfluorooctanesulfonic acid (PFOS)	NG/L	4,600	J+	MWFH-04	8	16	10	5	3,800	J+	4,600	J+	440	J+	2.8	U
Perfluorooctanoic acid (PFOA)	NG/L	4,100	J+	MWFH-05	15	16	10	7	1,300	J+	1,300	J+	4,100	J+	0.66	J
Perfluoropentanoic acid (PFPA)	NG/L	1,200		MWFH-04	11	16			1,200		**1,200**		**860**		1.6	J
Perfluorotetradecanoic acid (PFTeA)	NG/L	0			0	16			290	U	300	U	58	U	2.8	U
Perfluorotridecanoic Acid (PFTriA)	NG/L	0			0	16			290	U	300	U	58	U	2.8	U
Perfluoroundecanoic acid (PFUnA)	NG/L	0			0	16			150	U	150	U	29	U	1.4	U
Total PFAS	NG/L	18,793		MWFH-04	--	--			16,542		18,793		9,195		2.26	

Footnotes:
1) Number of analyses is the number of detected and non-detected results. Sample duplicate pairs have not been averaged.
2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during data validation.
[blank] = detect, i.e. detected chemical result value.
U = non-detect, i.e. not detected at or above this value.
UJ=The compound was not detected: however, the results is estimated because of discrepancies in meeting certain analyte-specific QC criteria.
J+ = The result is an estimated quantity, but the result may be biased high.
J- = The result is an estimated quantity, but the result may be biased low.
J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the criteria that are present.
- Results in bold red color represent values that are above the NYS MCL for PFOA or PFOS [10 ng/L]. ####
- **Bold** values represent results that are at or above DEC guidance for individual PFAS [100 ng/L]. ####
- Shaded values represent results that are at or above DEC guidance for total PFAS [500 ng/L]. ###
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Table 1 - Groundwater Results
Fire House PFAS ESI
Seneca Army Depot Activity

								Area	FIRE HOUSE		FIRE HOUSE		FIRE HOUSE		FIRE HOUSE	
								Loc ID	MWFH-07		MWFH-07		MWFH-08		MWFH-09	
								Matrix	GW		GW		GW		GW	
								Sample ID	FHESI20009		FHESI20010		FHESI20011		FHESI20012	
								Sample Depth Interval (FT)	--		--		--		--	
								Sample Date	6/29/2020		6/29/2020		6/29/2020		9/14/2020	
								QC Type	SA		DU		SA		SA	
								Study ID	PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI	
Parameter	**Unit**	**Max Detected Value**		**Max Detected Loc ID**	**Number of Detects**	**Number of Analyses**	**NYS MCL**	**Number of Exceedances**	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Per- and polyfluoroalkyl substances (PFAS)																
6:2 FTS	NG/L	6,200		MWFH-04	7	16			18	U	18	U	19	U	**250**	
8:2 FTS	NG/L	2,100		MWFH-04	4	16			9	U	9	U	9.4	U	86	
N-ethyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	16			9	U	9	U	9.4	U	8.8	UJ
N-methyl perfluorooctane sulfonamidoacetic acid	NG/L	4	J	MWFH-01	1	16			9	U	9	U	9.4	U	8.8	UJ
Perfluorobutanesulfonic acid (PFBS)	NG/L	87		MWFH-05	7	16			0.9	U	0.9	U	0.94	U	2	
Perfluorobutyric acid (PFBA)	NG/L	350		MWFH-04	12	16			4.8	J	2.9	J	2.6		96	J-
Perfluorodecanesulfonic acid (PFDS)	NG/L	0			0	16			1.3	U	1.3	U	1.4	U	1.3	U
Perfluorodecanoic acid (PFDA)	NG/L	0.52	J	MWFH-09	2	16			0.9	U	0.9	U	0.94	U	0.52	J
Perfluorododecanoic acid (PFDoA)	NG/L	0			0	16			1.3	U	1.3	U	1.4	U	1.3	UJ
Perfluoroheptanesulfonic Acid (PFHpS)	NG/L	48	J	MWFH-04	6	16			0.9	U	0.9	U	0.94	U	1.3	J
Perfluoroheptanoic acid (PFHpA)	NG/L	630		MWFH-04	10	16			1.3	U	1.3	U	1.4	U	23	
Perfluorohexanesulfonic acid (PFHxS)	NG/L	1,800		MWFH-05	11	16			1.8	U	1.8	U	1.9	U	26	
Perfluorohexanoic acid (PFHxA)	NG/L	980		MWFH-04	10	16			0.9	U	0.9	U	0.94	U	90	
Perfluorononanoic acid (PFNA)	NG/L	150	J	MWFH-04	6	16			1.3	U	1.3	U	1.4	U	5.5	
Perfluorooctane Sulfonamide (FOSA)	NG/L	8.3		MWFH-01	1	16			2.7	U	2.7	U	2.8	U	2.6	U
Perfluorooctanesulfonic acid (PFOS)	NG/L	4,600	J+	MWFH-04	8	16	10	5	2.7	U	2.7	U	3.7	U	**65**	
Perfluorooctanoic acid (PFOA)	NG/L	4,100	J+	MWFH-05	15	16	10	7	0.65	J	0.67	J	0.77	J	**41**	
Perfluoropentanoic acid (PFPA)	NG/L	1,200		MWFH-04	11	16			0.9	U	0.9	U	0.94	U	**170**	
Perfluorotetradecanoic acid (PFTeA)	NG/L	0			0	16			2.7	UJ	2.7	U	2.8	U	2.6	UJ
Perfluorotridecanoic Acid (PFTriA)	NG/L	0			0	16			2.7	U	2.7	U	2.8	U	2.6	U
Perfluoroundecanoic acid (PFUnA)	NG/L	0			0	16			1.3	U	1.3	U	1.4	U	1.3	U
Total PFAS	NG/L	18,793		MWFH-04	--	--			5.45		3.57		3.37		856	

Footnotes:

1) Number of analyses is the number of detected and non-detected results. Sample duplicate pairs have not been averaged.
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[blank] = detect, i.e. detected chemical result value.
U = non-detect, i.e. not detected at or above this value.
UJ=The compound was not detected: however, the results is estimated because of discrepancies in meeting certain analyte-specific QC criteria.
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J- = The result is an estimated quantity, but the result may be biased low.
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3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the criteria that are present.
- Results in bold **red** color represent values that are above the NYS MCL for PFOA or PFOS [10 ng/L]. ####
- **Bold** values represent results that are at or above DEC guidance for individual PFAS [100 ng/L]. ####
- Shaded values represent results that are at or above DEC guidance for total PFAS [500 ng/L]. ###

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https://regs.health.ny.gov/sites/default/files/proposed-regulations/Maximum%20Contaminant%20Levels%20%28MCLs%29.pdf

Table 1 - Groundwater Results
Fire House PFAS ESI
Seneca Army Depot Activity

								Area	FIRE HOUSE		FIRE HOUSE		FIRE HOUSE		FIRE HOUSE	
								Loc ID	MWFH-9D-DN		MWFH-9D-DN		MWFH-10D-DN		MWFH-11	
								Matrix	GW		GW		GW		GW	
								Sample ID	FHESI20014		FHESI20018		FHESI20015		FHESI20017	
								Sample Depth Interval (FT)	57-57		57-57		52-52		--	
								Sample Date	8/24/2020		8/24/2020		9/1/2020		9/14/2020	
								QC Type	SA		DU		SA		SA	
								Study ID	PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI	
Parameter	**Unit**	**Max Detected Value**		**Max Detected Loc ID**	**Number of Detects**	**Number of Analyses**	**NYS MCL**	**Number of Exceedances**	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Per- and polyfluoroalkyl substances (PFAS)																
6:2 FTS	NG/L	6,200		MWFH-04	7	16			17	U	18	U	17	U	18	U
8:2 FTS	NG/L	2,100		MWFH-04	4	16			8.7	U	8.8	U	8.4	U	9.1	U
N-ethyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	16			8.7	U	8.8	U	8.4	U	9.1	U
N-methyl perfluorooctane sulfonamidoacetic acid	NG/L	4	J	MWFH-01	1	16			8.7	U	8.8	U	8.4	U	9.1	U
Perfluorobutanesulfonic acid (PFBS)	NG/L	87		MWFH-05	7	16			0.87	U	0.88	U	0.84	U	0.91	U
Perfluorobutyric acid (PFBA)	NG/L	350		MWFH-04	12	16			1.3	U	1.3	U	4		1.4	U
Perfluorodecanesulfonic acid (PFDS)	NG/L	0			0	16			1.3	U	1.3	U	1.3	U	1.4	U
Perfluorodecanoic acid (PFDA)	NG/L	0.52	J	MWFH-09	2	16			0.87	U	0.88	U	0.84	U	0.91	U
Perfluorododecanoic acid (PFDoA)	NG/L	0			0	16			1.3	U	1.3	U	1.3	U	1.4	U
Perfluoroheptanesulfonic Acid (PFHpS)	NG/L	48	J	MWFH-04	6	16			0.87	U	0.88	U	0.84	U	0.91	U
Perfluoroheptanoic acid (PFHpA)	NG/L	630		MWFH-04	10	16			1.3	U	1.3	U	0.63	J	0.72	J
Perfluorohexanesulfonic acid (PFHxS)	NG/L	1,800		MWFH-05	11	16			0.34	J	0.88	U	3.2		0.4	J
Perfluorohexanoic acid (PFHxA)	NG/L	980		MWFH-04	10	16			0.87	U	0.88	U	4		4.1	
Perfluorononanoic acid (PFNA)	NG/L	150	J	MWFH-04	6	16			1.3	U	1.3	U	0.67	J	1.4	U
Perfluorooctane Sulfonamide (FOSA)	NG/L	8.3		MWFH-01	1	16			2.6	U	2.7	U	2.5	U	2.7	U
Perfluorooctanesulfonic acid (PFOS)	NG/L	4,600	J+	MWFH-04	8	16	10	5	2.6	U	2.7	U	6.6	JN	2.7	U
Perfluorooctanoic acid (PFOA)	NG/L	4,100	J+	MWFH-05	15	16	10	7	0.54	J	0.5	J	1.7		1.8	U
Perfluoropentanoic acid (PFPA)	NG/L	1,200		MWFH-04	11	16			1.7	U	1.8	U	2.6		3.9	
Perfluorotetradecanoic acid (PFTeA)	NG/L	0			0	16			2.6	U	2.7	U	2.5	UJ	2.7	U
Perfluorotridecanoic Acid (PFTriA)	NG/L	0			0	16			2.6	U	2.7	U	2.5	U	2.7	U
Perfluoroundecanoic acid (PFUnA)	NG/L	0			0	16			1.3	U	1.3	U	1.3	U	1.4	U
Total PFAS	NG/L	18,793		MWFH-04	--	--			0.88		0.5		23.4		9.12	

Footnotes:

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U = non-detect, i.e. not detected at or above this value.
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J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

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- Results in bold **red** color represent values that are above the NYS MCL for PFOA or PFOS [10 ng/L]. ####
- **Bold** values represent results that are at or above DEC guidance for individual PFAS [100 ng/L]. ####
- Shaded values represent results that are at or above DEC guidance for total PFAS [500 ng/L]. ###
4) Criteria action level source document and web address as of 01 December 2020.
- NY State Department of Health MCL (11-2020)
https://regs.health.ny.gov/sites/default/files/proposed-regulations/Maximum%20Contaminant%20Levels%20%28MCLs%29.pdf

Table 2 - Surface Water Results
Fire House PFAS ESI
Seneca Army Depot Activity

								Area	FIRE HOUSE		FIRE HOUSE		FIRE HOUSE	
								Loc ID	SWFH-01		SWFH-02		SWFH-03	
								Matrix	SW		SW		SW	
								Sample ID	FHESI30001		FHESI30002		FHESI30003	
								Sample Date	8/25/2020		8/25/2020		8/27/2020	
								QC Type	SA		SA		SA	
								Study ID	PFAS ESI		PFAS ESI		PFAS ESI	
Parameter	**Unit**	**Max Detected Value**		**Max Detected Loc ID**	**Number of Detects**	**Number of Analyses**	**NYS MCL**	**Number of Exceedances**	Value	Qual	Value	Qual	Value	Qual
Per- and polyfluoroalkyl substances (PFAS)														
6:2 FTS	NG/L	0			0	3			19	U	18	U	18	U
8:2 FTS	NG/L	3.9	J	SWFH-03	1	3			9.6	U	9	U	3.9	J
N-ethyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	3			9.6	U	9	U	9.1	U
N-methyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	3			9.6	U	9	U	9.1	U
Perfluorobutanesulfonic acid (PFBS)	NG/L	0			0	3			0.96	U	0.9	U	0.91	U
Perfluorobutyric acid (PFBA)	NG/L	9.9	J-	SWFH-03	2	3			1.4	UJ	2.3	J-	9.9	J-
Perfluorodecanesulfonic acid (PFDS)	NG/L	0			0	3			1.4	U	1.4	U	1.4	U
Perfluorodecanoic acid (PFDA)	NG/L	1.1	J	SWFH-03	2	3			0.96	U	0.72	J	1.1	J
Perfluorododecanoic acid (PFDoA)	NG/L	0			0	3			1.4	U	1.4	U	1.4	U
Perfluoroheptanesulfonic Acid (PFHpS)	NG/L	0			0	3			0.96	U	0.9	U	0.91	U
Perfluoroheptanoic acid (PFHpA)	NG/L	3.7		SWFH-01	3	3			3.7		2.5		1.9	
Perfluorohexanesulfonic acid (PFHxS)	NG/L	5.9		SWFH-01	3	3			5.9		2.7		5.7	
Perfluorohexanoic acid (PFHxA)	NG/L	5.9		SWFH-01	3	3			5.9		2.9		4.2	
Perfluorononanoic acid (PFNA)	NG/L	1.5	J	SWFH-01	3	3			1.5	J	1.4	J	1.4	J
Perfluorooctane Sulfonamide (FOSA)	NG/L	0			0	3			2.9	U	2.7	U	2.7	U
Perfluorooctanesulfonic acid (PFOS)	NG/L	18		SWFH-03	3	3	10	1	9.6		6.6		**18**	
Perfluorooctanoic acid (PFOA)	NG/L	8.4		SWFH-01	3	3	10	0	8.4		3.8		2.4	
Perfluoropentanoic acid (PFPA)	NG/L	5.5		SWFH-02	1	3			9.6	U	5.5		0.91	UJ
Perfluorotetradecanoic acid (PFTeA)	NG/L	0			0	3			2.9	UJ	2.7	U	2.7	U
Perfluorotridecanoic Acid (PFTriA)	NG/L	0			0	3			2.9	U	2.7	U	2.7	U
Perfluoroundecanoic acid (PFUnA)	NG/L	0			0	3			1.4	U	1.4	U	1.4	U
Total PFAS	NG/L	48.5		SWFH-03	--	--			35.0		28.4		48.5	

Footnotes:

1) Number of analyses is the number of detected and non-detected results. Sample duplicate pairs have not been averaged.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during data validation.

[blank] = detect, i.e. detected chemical result value.

U = non-detect, i.e. not detected at or above this value.

UJ=The compound was not detected: however, the results is estimated because of discrepancies in meeting certain analyte-specific QC criteria.

J- = The result is an estimated quantity, but the result may be biased low.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the criteria that are present.

- Results in bold **red** color represent values that are above the NYS MCL for PFOA or PFOS [10 ng/L]. **####**
- **Bold** values represent results that are at or above DEC guidance for individual PFAS [100 ng/L]. **####**
- Shaded values represent results that are at or above DEC guidance for total PFAS [500 ng/L]. ###

4) Criteria action level source document and web address as of 01 December 2020.

- NY State Department of Health MCL (11-2020)

https://regs.health.ny.gov/sites/default/files/proposed-regulations/Maximum%20Contaminant%20Levels%20%28MCLs%29.pdf

Table 3 - Soil SPLP Leachate Results
Fire House PFAS ESI
Seneca Army Depot Activity

						Area	FIRE HOUSE		FIRE HOUSE		FIRE HOUSE		FIRE HOUSE		FIRE HOUSE		FIRE HOUSE	
						Loc ID	SBFH-01		SBFH-01		SBFH-02		SBFH-02		SBFH-03			
						Matrix	SOIL		SOIL		SOIL		SOIL		SOIL			
						Sample ID	FHESI10001		FHESI10004		FHESI10002		FHESI10005		FHESI10003			
						Sample Depth Interval (FT)	2.5-3		2.5-3		2.5-3		0.167-2		2.5-3			
						Sample Date	8/11/2020		8/11/2020		8/11/2020		8/12/2020		8/11/2020			
						QC Type	SA		DU		SA		SA		SA			
						Study ID	PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI			
Parameter	**Unit**	**Max Detected Value**		**Max Detected Loc ID**	**Number of Detects**	**Number of Analyses**	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual		
Per- and polyfluoroalkyl substances (PFAS)																		
6:2 FTS	NG/L	0			0	5	18	U	18	U	18	U	19	U	19	U		
8:2 FTS	NG/L	0			0	5	9.1	U	9.1	U	9	U	9.5	U	9.6	U		
N-ethyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	5	9.1	U	9.1	U	9	U	9.5	U	9.6	U		
N-methyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	5	9.1	U	9.1	U	9	U	9.5	U	9.6	U		
Perfluorobutanesulfonic acid (PFBS)	NG/L	1.2	J	SBFH-03	4	5	0.91	U	0.43	J	0.5	J	0.51	J	1.2	J		
Perfluorobutyric acid (PFBA)	NG/L	66		SBFH-01	5	5	66		65		0.83	J	8.6		1.4	J		
Perfluorodecanesulfonic acid (PFDS)	NG/L	0			0	5	1.4	U	1.4	U	1.3	U	1.4	U	1.4	U		
Perfluorodecanoic acid (PFDA)	NG/L	0			0	5	0.91	U	0.91	U	0.9	U	0.95	U	0.96	U		
Perfluorododecanoic acid (PFDoA)	NG/L	0			0	5	1.4	U	1.4	U	1.3	U	1.4	U	1.4	U		
Perfluoroheptanesulfonic acid (PFHpS)	NG/L	0.69	J	SBFH-02	1	5	0.91	U	0.91	U	0.9	U	0.69	J	0.96	U		
Perfluoroheptanoic acid (PFHpA)	NG/L	64		SBFH-01	5	5	62		64		0.66	J	4.6		0.96	J		
Perfluorohexanesulfonic acid (PFHxS)	NG/L	45		SBFH-02	5	5	17		18		10		45		11			
Perfluorohexanoic acid (PFHxA)	NG/L	39		SBFH-01	5	5	38		39		1.1	J	14		2.6			
Perfluorononanoic acid (PFNA)	NG/L	10		SBFH-01	3	5	9.3		10		1.3	U	0.51	J	1.4	U		
Perfluorooctane Sulfonamide (FOSA)	NG/L	1.2	J	SBFH-02	1	5	2.7	U	2.7	U	2.7	U	1.2	J	2.9	U		
Perfluorooctanesulfonic acid (PFOS)	NG/L	13		SBFH-02	5	5	7.7		10		4.9		13		2.5	J		
Perfluorooctanoic acid (PFOA)	NG/L	170		SBFH-01	5	5	150		170		1.6	J	10		14			
Perfluoropentanoic acid (PFPA)	NG/L	140		SBFH-01	3	5	140		140		1.8	U	5		1.9	U		
Perfluorotetradecanoic acid (PFTeA)	NG/L	0			0	5	2.7	U	2.7	U	2.7	UJ	2.8	U	2.9	U		
Perfluorotridecanoic acid (PFTriA)	NG/L	0			0	5	2.7	U	2.7	U	2.7	U	2.8	U	2.9	U		
Perfluoroundecanoic acid (PFUnA)	NG/L	0			0	5	1.4	U	1.4	U	1.3	U	1.4	U	1.4	U		

Footnotes:

1) Number of analyses is the number of detected and non-detected results. Sample duplicate pairs have not been averaged.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during data validation.

[blank] = detect, i.e. detected chemical result value.

U = non-detect, i.e. not detected at or above this value.

UJ=The compound was not detected: however, the results is estimated because of discrepancies in meeting certain analyte-specific QC criteria.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

Table 4 - Groundwater Results
SEAD 25 PFAS ESI
Seneca Army Depot Activity

								Area	SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25
								Loc ID	MW25-1		MW25-2		MW25-3		MW25-6		MW25-8		MW25-9
								Matrix	GW		GW		GW		GW		GW		GW
								Sample ID	25SI20001		25SI20002		25SI20003		25SI20004		25SI20005		25SI20006
								Sample Depth Interval (FT)	--		--		--		--		--		--
								Sample Date	4/12/2017		4/11/2017		4/11/2017		4/12/2017		4/11/2017		4/11/2017
								QC Type	SA		SA		SA		SA		SA		SA
								Study ID	PFAS SI		PFAS SI		PFAS SI		PFAS SI		PFAS SI		PFAS SI
Parameter	**Unit**	**Max Detected Value**		**Max Detected Loc ID**	**Number of Detects**	**Number of Analyses**	**NYS MCL**	**Number of Exceedances**	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Per- and polyfluoroalkyl substances (PFAS)																			
6:2 FTS	NG/L	20	J	MW25-34D	1	23													
8:2 FTS	NG/L	0			0	23													
N-ethyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	37			14	U	15	U	14	U	14	U	14	U	14	U
N-methyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	37			14	U	15	U	14	U	14	U	14	U	14	U
Perfluorobutanesulfonic acid (PFBS)	NG/L	1,600		MW25-8	25	37			**380**		**1,500**		**240**		4.3		**1,600**		**670**
Perfluorobutyric acid (PFBA)	NG/L	660		MW25-31	15	23													
Perfluorodecanesulfonic acid (PFDS)	NG/L	0			0	23													
Perfluorodecanoic acid (PFDA)	NG/L	65		MW25-2	12	37			2.8		65		37		0.96	U	30		14
Perfluorododecanoic acid (PFDoA)	NG/L	0.56	J	MW25-3	1	37			1.9	U	2	U	0.56	J	1.9	U	1.9	U	1.9	U
Perfluoroheptanesulfonic Acid (PFHpS)	NG/L	5.5	J	MW25-21	3	23													
Perfluoroheptanoic acid (PFHpA)	NG/L	3,200		MW25-2	25	37			**350**		**3,200**		**220**		8.1		**830**		**380**
Perfluorohexanesulfonic acid (PFHxS)	NG/L	36,000	J	MW25-8	31	37			**5,100**		**17,000**		**5,200**	J	88		**36,000**	J	**8,900**
Perfluorohexanoic acid (PFHxA)	NG/L	14,000		MW25-2	27	37			**1,900**		**14,000**		**1,100**		37		**5,900**		**1,600**
Perfluorononanoic acid (PFNA)	NG/L	140		MW25-8	18	37			14		90		29		0.63	J	**140**		43
Perfluorooctane Sulfonamide (FOSA)	NG/L	3.1	J	MW25-31D-DN	3	23													
Perfluorooctanesulfonic acid (PFOS)	NG/L	8,300		MW25-8	20	37	10	16	**490**		**3,900**		**2,300**	J	5.8		**8,300**		**1,400**
Perfluorooctanoic acid (PFOA)	NG/L	89,000	J	MW25-2	31	37	10	20	**10,000**		**89,000**	J	**7,500**	J	**140**		**17,000**		**18,000**
Perfluoropentanoic acid (PFPA)	NG/L	2,200		MW25-31	12	23													
Perfluorotetradecanoic acid (PFTeA)	NG/L	0.67	J	MW25-18	3	37			0.93	U	1	U	0.92	U	0.96	U	0.38	J	0.94	U
Perfluorotridecanoic Acid (PFTriA)	NG/L	2.1	J	MW25-3	1	37			1.9	U	2	U	2.1	J	1.9	U	1.9	U	1.9	U
Perfluoroundecanoic acid (PFUnA)	NG/L	5.2		MW25-3	2	37			1.9	U	1.8	J	5.2		1.9	U	1.9	U	1.9	U
Total PFAS	NG/L	128,757		MW25-2	--	--			18,237		128,757		16,634		284		69,800		31,007

Footnotes:

1) Number of analyses is the number of detected and non-detected results. Sample duplicate pairs have not been averaged.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during data validation.

[blank] = detect, i.e. detected chemical result value.

U = non-detect, i.e. not detected at or above this value.

UJ=The compound was not detected: however, the results is estimated because of discrepancies in meeting certain analyte-specific QC criteria.

J+ = The result is an estimated quantity, but the result may be biased high.

J- = The result is an estimated quantity, but the result may be biased low.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the criteria that are present.

- Results in bold **red** color represent values that are above the NYS MCL for PFOA or PFOS [10 ng/L]. ####
- **Bold** values represent results that are at or above DEC guidance for individual PFAS [100 ng/L]. ####
- Shaded values represent results that are at or above DEC guidance for total PFAS [500 ng/L]. ###

4) Criteria action level source document and web address as of 01 December 2020.

- NY State Department of Health MCL (11-2020)

https://regs.health.ny.gov/sites/default/files/proposed-regulations/Maximum%20Contaminant%20Levels%20%28MCLs%29.pdf

Table 4 - Groundwater Results
SEAD 25 PFAS ESI
Seneca Army Depot Activity

								Area	SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25
								Loc ID	MW25-10		MW25-10		MW25-13		MW25-15		MW25-15		MW25-17
								Matrix	GW		GW		GW		GW		GW		GW
								Sample ID	25SI20007		25SI20014		25SI20008		25SI20009		25SI20013		25SI20010
								Sample Depth Interval (FT)	--		--		--		--		--		--
								Sample Date	4/12/2017		4/12/2017		4/12/2017		4/11/2017		4/11/2017		4/12/2017
								QC Type	SA		DU		SA		SA		DU		SA
								Study ID	PFAS SI		PFAS SI		PFAS SI		PFAS SI		PFAS SI		PFAS SI
Parameter	**Unit**	**Max Detected Value**		**Max Detected Loc ID**	**Number of Detects**	**Number of Analyses**	**NYS MCL**	**Number of Exceedances**	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Per- and polyfluoroalkyl substances (PFAS)																			
6:2 FTS	NG/L	20	J	MW25-34D	1	23													
8:2 FTS	NG/L	0			0	23													
N-ethyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	37			14	U	13	U	13	U	13	U	14	U	15	U
N-methyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	37			14	U	13	U	13	U	13	U	14	U	15	U
Perfluorobutanesulfonic acid (PFBS)	NG/L	1,600		MW25-8	25	37			**210**		**200**		2	J	**360**		**340**		**500**
Perfluorobutyric acid (PFBA)	NG/L	660		MW25-31	15	23													
Perfluorodecanesulfonic acid (PFDS)	NG/L	0			0	23													
Perfluorodecanoic acid (PFDA)	NG/L	65		MW25-2	12	37			0.76	J	0.81	J	0.89	U	4.7		4.4		1.7	J
Perfluorododecanoic acid (PFDoA)	NG/L	0.56	J	MW25-3	1	37			1.8	U	1.7	U	1.8	U	1.7	U	1.9	U	2	U
Perfluoroheptanesulfonic Acid (PFHpS)	NG/L	5.5	J	MW25-21	3	23													
Perfluoroheptanoic acid (PFHpA)	NG/L	3,200		MW25-2	25	37			**100**		**100**		3.9		**260**		**250**		**470**
Perfluorohexanesulfonic acid (PFHxS)	NG/L	36,000	J	MW25-8	31	37			**2,200**		**2,100**		22		**3,400**		**3,300**		**19,000**
Perfluorohexanoic acid (PFHxA)	NG/L	14,000		MW25-2	27	37			**710**		**660**		21		**890**		**890**		**1,200**
Perfluorononanoic acid (PFNA)	NG/L	140		MW25-8	18	37			9.3		9.3		1.8	U	36		35		35
Perfluorooctane Sulfonamide (FOSA)	NG/L	3.1	J	MW25-31D-DN	3	23													
Perfluorooctanesulfonic acid (PFOS)	NG/L	8,300		MW25-8	20	37	10	16	**250**		**240**		1.4	J	**490**		**480**		**2,600**
Perfluorooctanoic acid (PFOA)	NG/L	89,000	J	MW25-2	31	37	10	20	**2,000**		**2,100**		**70**		**6,800**		**6,900**		**11,000**
Perfluoropentanoic acid (PFPA)	NG/L	2,200		MW25-31	12	23													
Perfluorotetradecanoic acid (PFTeA)	NG/L	0.67	J	MW25-18	3	37			0.91	U	0.49	J	0.89	U	0.87	UJ	0.95	UJ	0.98	U
Perfluorotridecanoic Acid (PFTriA)	NG/L	2.1	J	MW25-3	1	37			1.8	U	1.7	U	1.8	U	1.7	U	1.9	U	2	U
Perfluoroundecanoic acid (PFUnA)	NG/L	5.2		MW25-3	2	37			1.8	U	1.7	U	1.8	U	1.7	U	1.9	U	2	U
Total PFAS	NG/L	128,757		MW25-2	--	--			5,481		5,411		120		12,241		12,199		34,807

Footnotes:

1) Number of analyses is the number of detected and non-detected results. Sample duplicate pairs have not been averaged.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during data validation.

[blank] = detect, i.e. detected chemical result value.

U = non-detect, i.e. not detected at or above this value.

UJ=The compound was not detected: however, the results is estimated because of discrepancies in meeting certain analyte-specific QC criteria.

J+ = The result is an estimated quantity, but the result may be biased high.

J- = The result is an estimated quantity, but the result may be biased low.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the criteria that are present.

- Results in bold **red** color represent values that are above the NYS MCL for PFOA or PFOS [10 ng/L]. ####
- **Bold** values represent results that are at or above DEC guidance for individual PFAS [100 ng/L]. ####
- Shaded values represent results that are at or above DEC guidance for total PFAS [500 ng/L]. ###

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- NY State Department of Health MCL (11-2020)

https://regs.health.ny.gov/sites/default/files/proposed-regulations/Maximum%20Contaminant%20Levels%20%28MCLs%29.pdf

Table 4 - Groundwater Results
SEAD 25 PFAS ESI
Seneca Army Depot Activity

								Area	SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25
								Loc ID	MW25-18		MW25-19		MW25-20		MW25-20		MW25-21		MW25-22
								Matrix	GW		GW		GW		GW		GW		GW
								Sample ID	25SI20011		25SI20012		25ESI20001		25ESI20007		25ESI20002		25ESI20003
								Sample Depth Interval (FT)	--		--		--		--		--		--
								Sample Date	4/12/2017		4/10/2017		5/28/2019		5/28/2019		5/31/2019		5/29/2019
								QC Type	SA		SA		SA		DU		SA		SA
								Study ID	PFAS SI		PFAS SI		PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI
Parameter	**Unit**	**Max Detected Value**		**Max Detected Loc ID**	**Number of Detects**	**Number of Analyses**	**NYS MCL**	**Number of Exceedances**	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Per- and polyfluoroalkyl substances (PFAS)																			
6:2 FTS	NG/L	20	J	MW25-34D	1	23							19	U	19	U	19	UJ	19	U
8:2 FTS	NG/L	0			0	23							9.4	U	9.6	U	9.4	UJ	9.3	U
N-ethyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	37			15	U	15	U	9.4	U	9.6	U	9.4	UJ	9.3	U
N-methyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	37			15	U	15	U	9.4	U	9.6	U	9.4	UJ	9.3	U
Perfluorobutanesulfonic acid (PFBS)	NG/L	1,600		MW25-8	25	37			76		**840**		1.8	J	1.8	J	58	J	51	
Perfluorobutyric acid (PFBA)	NG/L	660		MW25-31	15	23							6.3		6.3		58	J	43	
Perfluorodecanesulfonic acid (PFDS)	NG/L	0			0	23							1.4	U	1.4	U	1.4	UJ	1.4	U
Perfluorodecanoic acid (PFDA)	NG/L	65		MW25-2	12	37			0.98	U	13		0.94	U	0.96	U	0.94	UJ	0.93	U
Perfluorododecanoic acid (PFDoA)	NG/L	0.56	J	MW25-3	1	37			2	U	1.9	U	1.4	U	1.4	U	1.4	UJ	1.4	U
Perfluoroheptanesulfonic Acid (PFHpS)	NG/L	5.5	J	MW25-21	3	23							0.94	U	0.96	U	5.5	J	0.92	J
Perfluoroheptanoic acid (PFHpA)	NG/L	3,200		MW25-2	25	37			18		**400**		1.8	J	1.8	J	28	J	32	
Perfluorohexanesulfonic acid (PFHxS)	NG/L	36,000	J	MW25-8	31	37			**920**		**13,000**		8.2		8.4		**310**	**J**	**510**	**J**
Perfluorohexanoic acid (PFHxA)	NG/L	14,000		MW25-2	27	37			**120**		**2,900**		6.4		6.9		**250**	**J**	**280**	**J**
Perfluorononanoic acid (PFNA)	NG/L	140		MW25-8	18	37			2	U	40		1.4	U	1.4	U	0.5	J	0.69	J
Perfluorooctane Sulfonamide (FOSA)	NG/L	3.1	J	MW25-31D-DN	3	23							2.8	U	2.9	U	2.8	UJ	2.8	U
Perfluorooctanesulfonic acid (PFOS)	NG/L	8,300		MW25-8	20	37	10	16	**20**		**2,100**		2.8	U	2.9	U	**140**	**J**	**16**	**J**
Perfluorooctanoic acid (PFOA)	NG/L	89,000	J	MW25-2	31	37	10	20	**550**		**10,000**		8.7		7.6		**720**	**J**	**1,000**	**J+**
Perfluoropentanoic acid (PFPA)	NG/L	2,200		MW25-31	12	23							6.7		6.1		**110**	**J**	89	
Perfluorotetradecanoic acid (PFTeA)	NG/L	0.67	J	MW25-18	3	37			0.67	J	0.97	UJ	2.8	U	2.9	U	2.8	UJ	2.8	U
Perfluorotridecanoic Acid (PFTriA)	NG/L	2.1	J	MW25-3	1	37			2	U	1.9	U	2.8	U	2.9	U	2.8	UJ	2.8	U
Perfluoroundecanoic acid (PFUnA)	NG/L	5.2		MW25-3	2	37			2	U	1.9	U	1.4	U	1.4	U	1.4	UJ	1.4	U
Total PFAS	NG/L	128,757		MW25-2	--	--			1,705		29,293		39.9		38.9		1,680		2,023	

Footnotes:

1) Number of analyses is the number of detected and non-detected results. Sample duplicate pairs have not been averaged.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during data validation.

[blank] = detect, i.e. detected chemical result value.

U = non-detect, i.e. not detected at or above this value.

UJ=The compound was not detected: however, the results is estimated because of discrepancies in meeting certain analyte-specific QC criteria.

J+ = The result is an estimated quantity, but the result may be biased high.

J- = The result is an estimated quantity, but the result may be biased low.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the criteria that are present.

- Results in bold **red** color represent values that are above the NYS MCL for PFOA or PFOS [10 ng/L]. ####
- **Bold** values represent results that are at or above DEC guidance for individual PFAS [100 ng/L]. ####
- Shaded values represent results that are at or above DEC guidance for total PFAS [500 ng/L]. ###

4) Criteria action level source document and web address as of 01 December 2020.

- NY State Department of Health MCL (11-2020)

https://regs.health.ny.gov/sites/default/files/proposed-regulations/Maximum%20Contaminant%20Levels%20%28MCLs%29.pdf

Table 4 - Groundwater Results
SEAD 25 PFAS ESI
Seneca Army Depot Activity

								Area	SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
								Loc ID	MW25-22D		MW25-23		MW25-23		MW25-24		MW25-25		MW25-26	
								Matrix	GW		GW		GW		GW		GW		GW	
								Sample ID	25ESI20015		25ESI20004		25ESI20008		25ESI20005		25ESI20006		25ESI20009	
								Sample Depth Interval (FT)	--		--		--		--		--		--	
								Sample Date	8/19/2020		5/29/2019		5/29/2019		5/30/2019		5/30/2019		10/17/2019	
								QC Type	SA		SA		DU		SA		SA		SA	
								Study ID	PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI	
Parameter	**Unit**	**Max Detected Value**		**Max Detected Loc ID**	**Number of Detects**	**Number of Analyses**	**NYS MCL**	**Number of Exceedances**	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Per- and polyfluoroalkyl substances (PFAS)																				
6:2 FTS	NG/L	20	J	MW25-34D	1	23			19	U	19	U	19	UJ	19	U	19	U	19	U
8:2 FTS	NG/L	0			0	23			9.4	U	9.4	U	9.5	UJ	9.6	U	9.4	U	9.6	U
N-ethyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	37			9.4	U	9.4	U	9.5	UJ	9.6	U	9.4	U	9.6	U
N-methyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	37			9.4	U	9.4	U	9.5	UJ	9.6	U	9.4	U	9.6	U
Perfluorobutanesulfonic acid (PFBS)	NG/L	1,600		MW25-8	25	37			0.94	U	0.94	U	0.95	UJ	0.78	J	0.78	J	0.96	U
Perfluorobutyric acid (PFBA)	NG/L	660		MW25-31	15	23			1.4	U	4.4		4.6	J	6.7		4.1		2.3	U
Perfluorodecanesulfonic acid (PFDS)	NG/L	0			0	23			1.4	U	1.4	U	1.4	UJ	1.4	U	1.4	U	1.4	U
Perfluorodecanoic acid (PFDA)	NG/L	65		MW25-2	12	37			0.94	U	0.94	U	0.95	UJ	0.96	U	0.94	U	0.96	U
Perfluorododecanoic acid (PFDoA)	NG/L	0.56	J	MW25-3	1	37			1.4	U	1.4	U	1.4	UJ	1.4	U	1.4	U	1.4	U
Perfluoroheptanesulfonic Acid (PFHpS)	NG/L	5.5	J	MW25-21	3	23			0.94	U	0.94	U	0.95	UJ	0.96	U	0.94	U	0.96	U
Perfluoroheptanoic acid (PFHpA)	NG/L	3,200		MW25-2	25	37			1.4	U	0.62	J	0.69	J	4.4		1.4	U	1.4	U
Perfluorohexanesulfonic acid (PFHxS)	NG/L	36,000	J	MW25-8	31	37			2		0.94	U	0.95	UJ	9.2		3.3		0.96	U
Perfluorohexanoic acid (PFHxA)	NG/L	14,000		MW25-2	27	37			1.9	U	3		2.6	J	7.3		0.54	J	0.96	U
Perfluorononanoic acid (PFNA)	NG/L	140		MW25-8	18	37			1.4	U	1.4	U	1.4	UJ	0.5	J	1.4	U	1.4	U
Perfluorooctane Sulfonamide (FOSA)	NG/L	3.1	J	MW25-31D-DN	3	23			2.8	U	2.8	U	2.9	UJ	2.9	U	2.8	U	2.9	U
Perfluorooctanesulfonic acid (PFOS)	NG/L	8,300		MW25-8	20	37	10	16	2.8	U	2.8	U	2.9	UJ	**11**		2.8	U	2.9	U
Perfluorooctanoic acid (PFOA)	NG/L	89,000	J	MW25-2	31	37	10	20	6.8		3		3.7	J	3.7		0.79	J	1.4	U
Perfluoropentanoic acid (PFPA)	NG/L	2,200		MW25-31	12	23			1.9	U	4.4		4.3	J	9.1		0.94	U	0.96	U
Perfluorotetradecanoic acid (PFTeA)	NG/L	0.67	J	MW25-18	3	37			2.8	U	2.8	U	2.9	UJ	2.9	U	2.8	U	2.9	U
Perfluorotridecanoic Acid (PFTriA)	NG/L	2.1	J	MW25-3	1	37			2.8	U	2.8	U	2.9	UJ	2.9	U	2.8	U	2.9	U
Perfluoroundecanoic acid (PFUnA)	NG/L	5.2		MW25-3	2	37			1.4	U	1.4	U	1.4	UJ	1.4	U	1.4	U	1.4	U
Total PFAS	NG/L	128,757		MW25-2	--	--			8.8		15.4		15.9		52.7		9.51		--	

Footnotes:

1) Number of analyses is the number of detected and non-detected results. Sample duplicate pairs have not been averaged.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during data validation.

[blank] = detect, i.e. detected chemical result value.

U = non-detect, i.e. not detected at or above this value.

UJ=The compound was not detected: however, the results is estimated because of discrepancies in meeting certain analyte-specific QC criteria.

J+ = The result is an estimated quantity, but the result may be biased high.

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J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the criteria that are present.

- Results in bold red color represent values that are above the NYS MCL for PFOA or PFOS [10 ng/L]. ####
- **Bold** values represent results that are at or above DEC guidance for individual PFAS [100 ng/L]. ####
- Shaded values represent results that are at or above DEC guidance for total PFAS [500 ng/L]. ###

4) Criteria action level source document and web address as of 01 December 2020.

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https://regs.health.ny.gov/sites/default/files/proposed-regulations/Maximum%20Contaminant%20Levels%20%28MCLs%29.pdf

Table 4 - Groundwater Results
SEAD 25 PFAS ESI
Seneca Army Depot Activity

								Area	SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25
								Loc ID	MW25-27		MW25-28		MW25-28		MW25-29		MW25-30		MW25-31
								Matrix	GW		GW		GW		GW		GW		GW
								Sample ID	25ESI20010		25ESI20011		25ESI20014		25ESI20012		25ESI20013		25ESI20016
								Sample Depth Interval (FT)	--		--		--		--		--		--
								Sample Date	10/16/2019		10/18/2019		10/18/2019		10/17/2019		10/17/2019		8/20/2020
								QC Type	SA		SA		DU		SA		SA		SA
								Study ID	PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI
Parameter	**Unit**	**Max Detected Value**		**Max Detected Loc ID**	**Number of Detects**	**Number of Analyses**	**NYS MCL**	**Number of Exceedances**	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Per- and polyfluoroalkyl substances (PFAS)																			
6:2 FTS	NG/L	20	J	MW25-34D	1	23			19	U	20	U	20	U	20	U	19	U	17	U
8:2 FTS	NG/L	0			0	23			9.6	U	9.8	U	10	U	9.8	U	9.7	U	8.7	U
N-ethyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	37			9.6	U	9.8	U	10	U	9.8	U	9.7	U	8.7	U
N-methyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	37			9.6	U	9.8	U	10	U	9.8	U	9.7	U	8.7	U
Perfluorobutanesulfonic acid (PFBS)	NG/L	1,600		MW25-8	25	37			0.96	U	1.2	J	0.97	J	0.98	U	0.97	U	**180**	
Perfluorobutyric acid (PFBA)	NG/L	660		MW25-31	15	23			20		10		9.7		2	U	4.2		**660**	
Perfluorodecanesulfonic acid (PFDS)	NG/L	0			0	23			1.4	U	1.5	U	1.5	U	1.5	U	1.4	U	1.3	U
Perfluorodecanoic acid (PFDA)	NG/L	65		MW25-2	12	37			0.96	U	0.98	U	1	U	0.98	U	0.97	U	32	J+
Perfluorododecanoic acid (PFDoA)	NG/L	0.56	J	MW25-3	1	37			1.4	U	1.5	U	1.5	U	1.5	U	1.4	U	1.3	U
Perfluoroheptanesulfonic Acid (PFHpS)	NG/L	5.5	J	MW25-21	3	23			0.96	U	0.98	U	1	U	0.98	U	0.97	U	3.6	
Perfluoroheptanoic acid (PFHpA)	NG/L	3,200		MW25-2	25	37			1.4	U	4.5		4		1.5	U	1.4	U	**1,100**	
Perfluorohexanesulfonic acid (PFHxS)	NG/L	36,000	J	MW25-8	31	37			0.43	J	12		11		0.37	J	0.48	J	**1,900**	
Perfluorohexanoic acid (PFHxA)	NG/L	14,000		MW25-2	27	37			1.4	J	10		9.6		0.98	U	0.97	U	**6,100**	
Perfluorononanoic acid (PFNA)	NG/L	140		MW25-8	18	37			1.4	U	1.2	J	1.2	J	1.5	U	1.4	U	38	
Perfluorooctane Sulfonamide (FOSA)	NG/L	3.1	J	MW25-31D-DN	3	23			2.9	U	2.9	U	3	U	2.9	U	2.9	U	2.4	J
Perfluorooctanesulfonic acid (PFOS)	NG/L	8,300		MW25-8	20	37	10	16	2.9	U	7.9		8.3		2.9	U	2.9	U	420	
Perfluorooctanoic acid (PFOA)	NG/L	89,000	J	MW25-2	31	37	10	20	0.94	J	**11**		**11**		0.53	J	1.4	U	**65,000**	**J**
Perfluoropentanoic acid (PFPA)	NG/L	2,200		MW25-31	12	23			1.4	J	11		9.8		0.98	U	1.9	U	**2,200**	
Perfluorotetradecanoic acid (PFTeA)	NG/L	0.67	J	MW25-18	3	37			2.9	U	2.9	U	3	U	2.9	U	2.9	U	2.6	U
Perfluorotridecanoic Acid (PFTriA)	NG/L	2.1	J	MW25-3	1	37			2.9	U	2.9	U	3	U	2.9	U	2.9	U	2.6	U
Perfluoroundecanoic acid (PFUnA)	NG/L	5.2		MW25-3	2	37			1.4	U	1.5	U	1.5	U	1.5	U	1.4	U	1.3	U
Total PFAS	NG/L	128,757		MW25-2	--	--			24.2		68.8		65.6		0.90		4.68		77,636	

Footnotes:

1) Number of analyses is the number of detected and non-detected results. Sample duplicate pairs have not been averaged.

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- Results in bold red color represent values that are above the NYS MCL for PFOA or PFOS [10 ng/L]. ####
- **Bold** values represent results that are at or above DEC guidance for individual PFAS [100 ng/L]. ####
- Shaded values represent results that are at or above DEC guidance for total PFAS [500 ng/L]. ###

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Table 4 - Groundwater Results
SEAD 25 PFAS ESI
Seneca Army Depot Activity

								Area	SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
								Loc ID	MW25-31D-DN		MW25-31D-DN		MW25-31D-UP		MW25-32		MW25-33	
								Matrix	GW		GW		GW		GW		GW	
								Sample ID	25ESI20018		25ESI20023		25ESI20017		25ESI20019		25ESI20020	
								Sample Depth Interval (FT)	71-71		71-71		51-51		--		--	
								Sample Date	8/20/2020		8/20/2020		8/19/2020		8/19/2020		8/20/2020	
								QC Type	SA		DU		SA		SA		SA	
								Study ID	PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI	
Parameter	**Unit**	**Max Detected Value**		**Max Detected Loc ID**	**Number of Detects**	**Number of Analyses**	**NYS MCL**	**Number of Exceedances**	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Per- and polyfluoroalkyl substances (PFAS)																		
6:2 FTS	NG/L	20	J	MW25-34D	1	23			18	U	18	U	18	U	18	U	18	U
8:2 FTS	NG/L	0			0	23			9.1	U	9.2	U	8.9	U	9	U	9	U
N-ethyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	37			9.1	U	9.2	U	8.9	U	9	U	9	U
N-methyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	37			9.1	U	9.2	U	8.9	U	9	U	9	U
Perfluorobutanesulfonic acid (PFBS)	NG/L	1,600		MW25-8	25	37			0.91	U	0.92	U	0.89	U	0.77	J	0.61	J
Perfluorobutyric acid (PFBA)	NG/L	660		MW25-31	15	23			1.4	U	1.4	U	1.3	U	6.4		1.3	J
Perfluorodecanesulfonic acid (PFDS)	NG/L	0			0	23			1.4	U	1.4	U	1.3	U	1.3	U	1.4	U
Perfluorodecanoic acid (PFDA)	NG/L	65		MW25-2	12	37			0.91	U	0.92	U	0.89	U	0.9	U	0.9	U
Perfluorododecanoic acid (PFDoA)	NG/L	0.56	J	MW25-3	1	37			1.4	U	1.4	U	1.3	U	1.3	U	1.4	U
Perfluoroheptanesulfonic Acid (PFHpS)	NG/L	5.5	J	MW25-21	3	23			0.91	U	0.92	U	0.89	U	0.9	U	0.9	U
Perfluoroheptanoic acid (PFHpA)	NG/L	3,200		MW25-2	25	37			1.4	U	1.4	U	1.3	U	1.3	U	1.1	J
Perfluorohexanesulfonic acid (PFHxS)	NG/L	36,000	J	MW25-8	31	37			0.4	J	0.53	J	1.8	U	3.2		2.9	
Perfluorohexanoic acid (PFHxA)	NG/L	14,000		MW25-2	27	37			0.91	U	0.92	U	0.89	U	1.8	U	5.8	
Perfluorononanoic acid (PFNA)	NG/L	140		MW25-8	18	37			1.4	U	1.4	U	1.3	U	1.3	U	1.4	U
Perfluorooctane Sulfonamide (FOSA)	NG/L	3.1	J	MW25-31D-DN	3	23			3	J	3.1	J	2.7	U	2.7	U	2.7	U
Perfluorooctanesulfonic acid (PFOS)	NG/L	8,300		MW25-8	20	37	10	16	2.7	U	2.8	U	2.7	U	2.7	U	2.7	U
Perfluorooctanoic acid (PFOA)	NG/L	89,000	J	MW25-2	31	37	10	20	1.8	U	1.8	U	1.8	U	1.8	U	**61**	
Perfluoropentanoic acid (PFPA)	NG/L	2,200		MW25-31	12	23			1.8	U	1.8	U	1.8	U	1.8	U	2.4	
Perfluorotetradecanoic acid (PFTeA)	NG/L	0.67	J	MW25-18	3	37			2.7	UJ	2.8	UJ	2.7	U	2.7	U	2.7	U
Perfluorotridecanoic Acid (PFTriA)	NG/L	2.1	J	MW25-3	1	37			2.7	U	2.8	U	2.7	U	2.7	U	2.7	U
Perfluoroundecanoic acid (PFUnA)	NG/L	5.2		MW25-3	2	37			1.4	U	1.4	U	1.3	U	1.3	U	1.4	U
Total PFAS	NG/L	128,757		MW25-2	--	--			3.4		3.63		--		10.37		75.11	

Footnotes:

1) Number of analyses is the number of detected and non-detected results. Sample duplicate pairs have not been averaged.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during data validation.

[blank] = detect, i.e. detected chemical result value.

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Table 4 - Groundwater Results
SEAD 25 PFAS ESI
Seneca Army Depot Activity

								Area	SEAD-25		SEAD-25	
								Loc ID	MW25-34		MW25-34D	
								Matrix	GW		GW	
								Sample ID	25ESI20021		25ESI20022	
								Sample Depth Interval (FT)	--		--	
								Sample Date	8/21/2020		8/31/2020	
								QC Type	SA		SA	
								Study ID	PFAS ESI		PFAS ESI	
Parameter	**Unit**	**Max Detected Value**		**Max Detected Loc ID**	**Number of Detects**	**Number of Analyses**	**NYS MCL**	**Number of Exceedances**	Value	Qual	Value	Qual
Per- and polyfluoroalkyl substances (PFAS)												
6:2 FTS	NG/L	20	J	MW25-34D	1	23			17	U	20	J
8:2 FTS	NG/L	0			0	23			8.6	U	8.2	U
N-ethyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	37			8.6	U	8.2	U
N-methyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	37			8.6	U	8.2	U
Perfluorobutanesulfonic acid (PFBS)	NG/L	1,600		MW25-8	25	37			0.86	U	0.82	U
Perfluorobutyric acid (PFBA)	NG/L	660		MW25-31	15	23			1.3	U	1.2	U
Perfluorodecanesulfonic acid (PFDS)	NG/L	0			0	23			1.3	U	1.2	U
Perfluorodecanoic acid (PFDA)	NG/L	65		MW25-2	12	37			0.86	U	0.82	U
Perfluorododecanoic acid (PFDoA)	NG/L	0.56	J	MW25-3	1	37			1.3	U	1.2	U
Perfluoroheptanesulfonic Acid (PFHpS)	NG/L	5.5	J	MW25-21	3	23			0.86	U	0.82	U
Perfluoroheptanoic acid (PFHpA)	NG/L	3,200		MW25-2	25	37			1.3	U	1.2	U
Perfluorohexanesulfonic acid (PFHxS)	NG/L	36,000	J	MW25-8	31	37			0.86	U	1.6	U
Perfluorohexanoic acid (PFHxA)	NG/L	14,000		MW25-2	27	37			0.86	U	0.82	U
Perfluorononanoic acid (PFNA)	NG/L	140		MW25-8	18	37			1.3	U	1.2	U
Perfluorooctane Sulfonamide (FOSA)	NG/L	3.1	J	MW25-31D-DN	3	23			2.6	U	2.5	U
Perfluorooctanesulfonic acid (PFOS)	NG/L	8,300		MW25-8	20	37	10	16	2.6	U	3.3	U
Perfluorooctanoic acid (PFOA)	NG/L	89,000	J	MW25-2	31	37	10	20	0.96	J	1.1	J
Perfluoropentanoic acid (PFPA)	NG/L	2,200		MW25-31	12	23			0.86	U	0.82	U
Perfluorotetradecanoic acid (PFTeA)	NG/L	0.67	J	MW25-18	3	37			2.6	U	2.5	U
Perfluorotridecanoic Acid (PFTriA)	NG/L	2.1	J	MW25-3	1	37			2.6	U	2.5	U
Perfluoroundecanoic acid (PFUnA)	NG/L	5.2		MW25-3	2	37			1.3	U	1.2	U
Total PFAS	NG/L	128,757		MW25-2	--	--			0.96		21.1	

Footnotes:
1) Number of analyses is the number of detected and non-detected results. Sample duplicate pairs have not been averaged.
2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during data validation.
[blank] = detect, i.e. detected chemical result value.
U = non-detect, i.e. not detected at or above this value.
UJ=The compound was not detected: however, the results is estimated because of discrepancies in meeting certain analyte-specific QC criteria.

J+ = The result is an estimated quantity, but the result may be biased high.
J- = The result is an estimated quantity, but the result may be biased low.
J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.
3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the criteria that are present.
- Results in bold red color represent values that are above the NYS MCL for PFOA or PFOS [10 ng/L]. **####**
- **Bold** values represent results that are at or above DEC guidance for individual PFAS [100 ng/L]. **####**
- Shaded values represent results that are at or above DEC guidance for total PFAS [500 ng/L]. ###
4) Criteria action level source document and web address as of 01 December 2020.
- NY State Department of Health MCL (11-2020)
https://regs.health.ny.gov/sites/default/files/proposed-regulations/Maximum%20Contaminant%20Levels%20%28MCLs%29.pdf

Table 5 - Surface Water Results
SEAD 25 PFAS ESI
Seneca Army Depot Activity

							Area	SEAD-25		SEAD-25		SEAD-25		SEAD-25		SEAD-25	
							Loc ID	25SW-01		25SW-01		25SW-02		25SW-02		25SW-02	
							Matrix	SW		SW		SW		SW		SW	
							Sample ID	25ESI30001		25ESI30004		25ESI30002		25ESI30003		25ESI30005	
							Sample Date	6/3/2019		8/21/2020		6/3/2019		6/3/2019		8/21/2020	
							QC Type	SA		SA		SA		DU		SA	
							Study ID	PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI	
Parameter	**Unit**	**Max Detected Value**		**Max Detected Loc ID**	**Number of Detects**	**Number of Analyses**	**NYS MCL**	**Number of Exceedances**	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Per- and polyfluoroalkyl substances (PFAS)																		
6:2 FTS	NG/L	81		25SW-01	3	9			81		19	U	46		46		17	U
8:2 FTS	NG/L	21		25SW-01	3	9			21		9.3	U	17	J	15	J	8.6	U
N-ethyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	9			9.4	U	9.3	U	9.9	U	9.5	U	8.6	U
N-methyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	9			9.4	U	9.3	U	9.9	U	9.5	U	8.6	U
Perfluorobutanesulfonic acid (PFBS)	NG/L	640		25SW-05	9	9			4.7		1.1	J	7.1		7.6		2.2	
Perfluorobutyric acid (PFBA)	NG/L	12		25SW-02	9	9			11		5		12		11		9	
Perfluorodecanesulfonic acid (PFDS)	NG/L	0			0	9			1.4	U	1.4	U	1.5	U	1.4	U	1.3	U
Perfluorodecanoic acid (PFDA)	NG/L	0.59	J	25SW-02	2	9			0.5	J	0.93	U	0.99	U	0.95	U	0.59	J
Perfluorododecanoic acid (PFDoA)	NG/L	0			0	9			1.4	U	1.4	U	1.5	U	1.4	U	1.3	U
Perfluoroheptanesulfonic Acid (PFHpS)	NG/L	1.7	J	25SW-01	4	9			1.7	J	0.93	U	1.4	J	1.2	J	0.54	J
Perfluoroheptanoic acid (PFHpA)	NG/L	18		25SW-02	9	9			15		3.5		16		18		10	
Perfluorohexanesulfonic acid (PFHxS)	NG/L	130		25SW-02	9	9			38		9.9		**130**		**130**		26	
Perfluorohexanoic acid (PFHxA)	NG/L	43		25SW-02	9	9			27		8.6		41		43		22	
Perfluorononanoic acid (PFNA)	NG/L	4.5		25SW-02	9	9			2.7		0.86	J	3		2.7		4.5	
Perfluorooctane Sulfonamide (FOSA)	NG/L	1.2	J	25SW-01	1	9			2.8	U	1.2	J	3	U	2.8	U	2.6	U
Perfluorooctanesulfonic acid (PFOS)	NG/L	78		25SW-01	9	9	10	9	**78**		**16**		**62**		**53**		**62**	
Perfluorooctanoic acid (PFOA)	NG/L	120		25SW-02	9	9	10	8	**26**		7.2		**110**		**120**		**27**	
Perfluoropentanoic acid (PFPA)	NG/L	30		25SW-02	9	9			27		7.8		30		30		19	
Perfluorotetradecanoic acid (PFTeA)	NG/L	0			0	9			2.8	U	2.8	U	3	U	2.8	U	2.6	UJ
Perfluorotridecanoic Acid (PFTriA)	NG/L	0			0	9			2.8	U	2.8	U	3	U	2.8	U	2.6	U
Perfluoroundecanoic acid (PFUnA)	NG/L	0			0	9			1.4	U	1.4	U	1.5	U	1.4	U	1.3	U
Total PFAS	NG/L	792		25SW-05	--	--			334		61.2		476		478		183	

Footnotes:

1) Number of analyses is the number of detected and non-detected results. Sample duplicate pairs have not been averaged.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during data validation.

[blank] = detect, i.e. detected chemical result value.

U = non-detect, i.e. not detected at or above this value.

UJ=The compound was not detected: however, the results is estimated because of discrepancies in meeting certain analyte-specific QC criteria.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the criteria that are present.

- Results in bold **red** color represent values that are above the NYS MCL for PFOA or PFOS [10 ng/L]. **####**
- **Bold** values represent results that are at or above DEC guidance for individual PFAS [100 ng/L]. **####**
- Shaded values represent results that are at or above DEC guidance for total PFAS [500 ng/L]. ###

4) Criteria action level source document and web address as of 01 December 2020.

- NY State Department of Health MCL (11-2020)

https://regs.health.ny.gov/sites/default/files/proposed-regulations/Maximum%20Contaminant%20Levels%20%28MCLs%29.pdf

Table 5 - Surface Water Results
SEAD 25 PFAS ESI
Seneca Army Depot Activity

							Area	SEAD-25		SEAD-25		SEAD-25		SEAD-25
							Loc ID	25SW-04		25SW-05		25SW-06		25SW-06
							Matrix	SW		SW		SW		SW
							Sample ID	25ESI30007		25ESI30008		25ESI30009		25ESI30010
							Sample Date	8/24/2020		8/25/2020		8/25/2020		8/25/2020
							QC Type	SA		SA		SA		DU
							Study ID	PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI
Parameter	**Unit**	**Max Detected Value**		**Max Detected Loc ID**	**Number of Detects**	**Number of Analyses**	**NYS MCL**	**Number of Exceedances**	Value	Qual	Value	Qual	Value	Qual
Per- and polyfluoroalkyl substances (PFAS)														
6:2 FTS	NG/L	81		25SW-01	3	9			18	U	18	U	17	U
8:2 FTS	NG/L	21		25SW-01	3	9			8.9	U	8.8	U	8.6	U
N-ethyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	9			8.9	U	8.8	U	8.6	U
N-methyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	9			8.9	U	8.8	U	8.6	U
Perfluorobutanesulfonic acid (PFBS)	NG/L	640		25SW-05	9	9			1.8		**640**		2.6	
Perfluorobutyric acid (PFBA)	NG/L	12		25SW-02	9	9			8.4		7.7		9.1	
Perfluorodecanesulfonic acid (PFDS)	NG/L	0			0	9			1.3	U	1.3	U	1.3	U
Perfluorodecanoic acid (PFDA)	NG/L	0.59	J	25SW-02	2	9			0.89	U	0.88	U	0.86	U
Perfluorododecanoic acid (PFDoA)	NG/L	0			0	9			1.3	U	1.3	U	1.3	U
Perfluoroheptanesulfonic Acid (PFHpS)	NG/L	1.7	J	25SW-01	4	9			0.89	U	0.88	U	0.86	U
Perfluoroheptanoic acid (PFHpA)	NG/L	18		25SW-02	9	9			8.7		8.6		10	
Perfluorohexanesulfonic acid (PFHxS)	NG/L	130		25SW-02	9	9			23		25		30	
Perfluorohexanoic acid (PFHxA)	NG/L	43		25SW-02	9	9			17		19		23	
Perfluorononanoic acid (PFNA)	NG/L	4.5		25SW-02	9	9			2.5		3.6		3.9	
Perfluorooctane Sulfonamide (FOSA)	NG/L	1.2	J	25SW-01	1	9			2.7	U	2.6	U	2.6	U
Perfluorooctanesulfonic acid (PFOS)	NG/L	78		25SW-01	9	9	10	9	**27**		**51**		**34**	
Perfluorooctanoic acid (PFOA)	NG/L	120		25SW-02	9	9	10	8	**20**		**22**		**29**	
Perfluoropentanoic acid (PFPA)	NG/L	30		25SW-02	9	9			14		15		18	
Perfluorotetradecanoic acid (PFTeA)	NG/L	0			0	9			2.7	UJ	2.6	UJ	2.6	U
Perfluorotridecanoic Acid (PFTriA)	NG/L	0			0	9			2.7	U	2.6	U	2.6	U
Perfluoroundecanoic acid (PFUnA)	NG/L	0			0	9			1.3	U	1.3	U	1.3	U
Total PFAS	NG/L	792		25SW-05	--	--			122		792		160	
163														

Footnotes:

1) Number of analyses is the number of detected and non-detected results. Sample duplicate pairs have not been averaged.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during data validation.

[blank] = detect, i.e. detected chemical result value.

U = non-detect, i.e. not detected at or above this value.

UJ=The compound was not detected: however, the results is estimated because of discrepancies in meeting certain analyte-specific QC criteria.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the criteria that are present.

- Results in bold **red** color represent values that are above the NYS MCL for PFOA or PFOS [10 ng/L]. **####**
- **Bold** values represent results that are at or above DEC guidance for individual PFAS [100 ng/L]. **####**
- Shaded values represent results that are at or above DEC guidance for total PFAS [500 ng/L]. ###

4) Criteria action level source document and web address as of 01 December 2020.

- NY State Department of Health MCL (11-2020)

https://regs.health.ny.gov/sites/default/files/proposed-regulations/Maximum%20Contaminant%20Levels%20%28MCLs%29.pdf

Table 6 - Soil SPLP Leachate Results
SEAD 25 PFAS ESI
Seneca Army Depot Activity

					Area	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25	SEAD-25
					Loc ID	SB25-17	SB25-18	SB25-18	SB25-18	SB25-19	SB25-19
					Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Sample ID	25ESI10001	25ESI10005	25ESI10006	25ESI10002	25ESI10004	25ESI10003
					Sample Depth Interval (FT)	2.5-3	0.167-2	0.167-2	2.5-3	0.167-1.917	2.5-3
					Sample Date	8/12/2020	8/12/2020	8/12/2020	8/12/2020	8/12/2020	8/12/2020
					QC Type	SA	SA	DU	SA	SA	SA
					Study ID	PFAS ESI	PFAS ESI	PFAS ESI	PFAS ESI	PFAS ESI	PFAS ESI
Parameter	**Unit**	**Max Detected Value**	**Max Detected Loc ID**	**Number of Detects**	**Number of Analyses**	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
Per- and polyfluoroalkyl substances (PFAS)											
6:2 FTS	NG/L	0		0	6	19 U	19 U	19 U	19 U	19 U	20 U
8:2 FTS	NG/L	0		0	6	9.7 U	9.7 U	9.3 U	9.4 U	9.7 U	9.8 U
N-ethyl perfluorooctane sulfonamidoacetic acid	NG/L	0		0	6	9.7 U	9.7 U	9.3 U	9.4 U	9.7 U	9.8 U
N-methyl perfluorooctane sulfonamidoacetic acid	NG/L	0		0	6	9.7 U	9.7 U	9.3 U	9.4 U	9.7 U	9.8 U
Perfluorobutanesulfonic acid (PFBS)	NG/L	13	SB25-18	6	6	12	11	13	5.7	5.9	11
Perfluorobutyric acid (PFBA)	NG/L	26	SB25-18	6	6	15	25	26	5.8	1.9	9.6
Perfluorodecanesulfonic acid (PFDS)	NG/L	0		0	6	1.5 U	1.4 U	1.4 U	1.4 U	1.5 U	1.5 U
Perfluorodecanoic acid (PFDA)	NG/L	62	SB25-18	6	6	17	19	22	62	1 J	2.5
Perfluorododecanoic acid (PFDoA)	NG/L	0		0	6	1.5 U	1.4 U	1.4 U	1.4 U	1.5 U	1.5 U
Perfluoroheptanesulfonic Acid (PFHpS)	NG/L	28	SB25-18	6	6	6.7	26	28	18	3.7	7.8
Perfluoroheptanoic acid (PFHpA)	NG/L	21	SB25-19	6	6	5.8	9.5	11	5.7	4.6	21
Perfluorohexanesulfonic acid (PFHxS)	NG/L	680	SB25-18	6	6	250	580	680	480	330	620
Perfluorohexanoic acid (PFHxA)	NG/L	150	SB25-19	6	6	34	80	88	41	26	150
Perfluorononanoic acid (PFNA)	NG/L	8.6	SB25-18	6	6	7	6.8	8.6	8.4	1.8 J	6.7
Perfluorooctane Sulfonamide (FOSA)	NG/L	170	SB25-18	6	6	7.1	170	160	17	2.2 J	18
Perfluorooctanesulfonic acid (PFOS)	NG/L	2,400	SB25-18	6	6	920	1,800	2,000	2,400	120	270
Perfluorooctanoic acid (PFOA)	NG/L	1,100	SB25-19	6	6	450	460	580	420	340	1,100
Perfluoropentanoic acid (PFPA)	NG/L	37	SB25-18	6	6	26	36	37	11	4.5	21
Perfluorotetradecanoic acid (PFTeA)	NG/L	0		0	6	2.9 U	2.9 U	2.8 U	2.8 U	2.9 U	2.9 U
Perfluorotridecanoic Acid (PFTriA)	NG/L	0		0	6	2.9 U	2.9 U	2.8 U	2.8 U	2.9 U	2.9 U
Perfluoroundecanoic acid (PFUnA)	NG/L	0.71 J	SB25-18	1	6	1.5 U	1.4 U	1.4 U	0.71 J	1.5 U	1.5 U

Footnotes:

1) Number of analyses is the number of detected and non-detected results. Sample duplicate pairs have not been averaged.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during data validation.

[blank] = detect, i.e. detected chemical result value.

U = non-detect, i.e. not detected at or above this value.

UJ=The compound was not detected: however, the results is estimated because of discrepancies in meeting certain analyte-specific QC criteria.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

Table 7 - Groundwater Results
SEAD 26 PFAS ESI
Seneca Army Depot Activity

							Area	SEAD-26		SEAD-26		SEAD-26		SEAD-26		SEAD-26		SEAD-26	
							Loc ID	MW26-12		MW26-13		MW26-14		MW26-15		MW26-16		MW26-16	
							Matrix	GW		GW		GW		GW		GW		GW	
							Sample ID	26ESI20001		26ESI20002		26ESI20003		26ESI20004		26ESI20005		26ESI20007	
							Sample Depth Interval (FT)	--		--		--		--		--		--	
							Sample Date	5/31/2019		5/30/2019		5/31/2019		5/31/2019		5/31/2019		5/31/2019	
							QC Type	SA		SA		SA		SA		SA		DU	
							Study ID	PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI	
Parameter	**Unit**	**Max Detected Value**	**Max Detected Loc ID**	**Number of Detects**	**Number of Analyses**	**NYS MCL**	**Number of Exceedances**	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Per- and polyfluoroalkyl substances (PFAS)																			
6:2 FTS	NG/L	420	MW26-28	7	28			19	U	8.8	J	19	U	19	UJ	29	J	35	J
8:2 FTS	NG/L	600	MW26-28	2	28			9.5	U	9.6	U	9.5	U	9.4	UJ	9.5	U	9.5	UJ
N-ethyl perfluorooctane sulfonamidoacetic acid	NG/L	0		0	28			9.5	U	9.6	U	9.5	U	9.4	UJ	9.5	U	9.5	UJ
N-methyl perfluorooctane sulfonamidoacetic acid	NG/L	0		0	28			9.5	U	9.6	U	9.5	U	9.4	UJ	9.5	U	9.5	UJ
Perfluorobutanesulfonic acid (PFBS)	NG/L	52	MW26-28	16	28			0.95	U	1	J	3		0.94	UJ	48		46	J
Perfluorobutyric acid (PFBA)	NG/L	260	MW26-28	22	28			1.4	U	63		18		1.4	UJ	**220**		210	J
Perfluorodecanesulfonic acid (PFDS)	NG/L	0		0	28			1.4	U	1.4	U	1.4	U	1.4	UJ	1.4	U	1.4	UJ
Perfluorodecanoic acid (PFDA)	NG/L	7.5	MW26-28	2	28			0.95	U	0.96	U	0.95	U	0.94	UJ	0.95	U	0.95	UJ
Perfluorododecanoic acid (PFDoA)	NG/L	0		0	28			1.4	U	1.4	U	1.4	U	1.4	UJ	1.4	U	1.4	UJ
Perfluoroheptanesulfonic Acid (PFHpS)	NG/L	36	MW26-28	7	28			0.95	U	0.96	U	0.95	U	0.94	UJ	14		12	J
Perfluoroheptanoic acid (PFHpA)	NG/L	580	MW26-28	17	28			1.4	U	21		5.5		1.4	UJ	**360**		340	J
Perfluorohexanesulfonic acid (PFHxS)	NG/L	910	MW26-28	16	28			0.95	U	11		12		0.94	UJ	**610**		610	J
Perfluorohexanoic acid (PFHxA)	NG/L	880	MW26-28	18	28			0.48	J	69		26		0.94	UJ	**650**		660	J
Perfluorononanoic acid (PFNA)	NG/L	50	MW26-28	6	28			1.4	U	1.4	U	1.4	U	1.4	UJ	37		38	J
Perfluorooctane Sulfonamide (FOSA)	NG/L	15	MW26-28	3	28			2.9	U	2.9	U	2.9	U	2.8	UJ	2.8	U	2.8	UJ
Perfluorooctanesulfonic acid (PFOS)	NG/L	2,300	MW26-28	11	28	10	6	2.9	U	2.9	U	6.2		2.8	UJ	770		800	J
Perfluorooctanoic acid (PFOA)	NG/L	540	MW26-28	19	28	10	10	0.52	J	7.9		4.5		0.54	J	330	J+	330	J
Perfluoropentanoic acid (PFPA)	NG/L	920	MW26-28	20	28			0.64	J	**120**		20		0.94	UJ	**720**		720	J
Perfluorotetradecanoic acid (PFTeA)	NG/L	0		0	28			2.9	U	2.9	U	2.9	U	2.8	UJ	2.8	U	2.8	UJ
Perfluorotridecanoic Acid (PFTriA)	NG/L	0		0	28			2.9	U	2.9	U	2.9	U	2.8	UJ	2.8	U	2.8	UJ
Perfluoroundecanoic acid (PFUnA)	NG/L	0		0	28			1.4	U	1.4	U	1.4	U	1.4	UJ	1.4	U	1.4	UJ
Total PFAS	NG/L	7,539	MW26-28	--	--			1.64		302		95.2		0.54		3,788		3,801	

Footnotes:

1) Number of analyses is the number of detected and non-detected results. Sample duplicate pairs have not been averaged.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during data validation.
[blank] = detect, i.e. detected chemical result value.
U = non-detect, i.e. not detected at or above this value.
UJ=The compound was not detected: however, the results is estimated because of discrepancies in meeting certain analyte-specific QC criteria.
J+ = The result is an estimated quantity, but the result may be biased high.
JN = Tentatively identified compound, estimated concentration.
J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the criteria that are present.

- Results in bold **red** color represent values that are above the NYS MCL for PFOA or PFOS [10 ng/L]. ####
- **Bold** values represent results that are at or above DEC guidance for individual PFAS [100 ng/L]. ####
- Shaded values represent results that are at or above DEC guidance for total PFAS [500 ng/L]. ###

4) Criteria action level source document and web address as of 01 December 2020.
- NY State Department of Health MCL (11-2020)
https://regs.health.ny.gov/sites/default/files/proposed-regulations/Maximum%20Contaminant%20Levels%20%28MCLs%29.pdf

Table 7 - Groundwater Results
SEAD 26 PFAS ESI
Seneca Army Depot Activity

							Area	SEAD-26		SEAD-26		SEAD-26		SEAD-26		SEAD-26		SEAD-26	
							Loc ID	MW26-17		MW26-18		MW26-19		MW26-20		MW26-20		MW26-21	
							Matrix	GW		GW		GW		GW		GW		GW	
							Sample ID	26ESI20006		26ESI20008		26ESI20013		26ESI20010		26ESI20012		26ESI20014	
							Sample Depth Interval (FT)	--		--		--		--		--		--	
							Sample Date	5/31/2019		10/17/2019		8/21/2020		10/18/2019		10/18/2019		6/29/2020	
							QC Type	SA		SA		SA		SA		DU		SA	
							Study ID	PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI	
Parameter	**Unit**	**Max Detected Value**	**Max Detected Loc ID**	**Number of Detects**	**Number of Analyses**	**NYS MCL**	**Number of Exceedances**	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Per- and polyfluoroalkyl substances (PFAS)																			
6:2 FTS	NG/L	420	MW26-28	7	28			19	U	12	J	19	U	19	U	20	U	18	U
8:2 FTS	NG/L	600	MW26-28	2	28			9.5	U	9.8	U	9.3	U	9.7	U	9.9	U	8.9	U
N-ethyl perfluorooctane sulfonamidoacetic acid	NG/L	0		0	28			9.5	U	9.8	U	9.3	U	9.7	U	9.9	U	8.9	U
N-methyl perfluorooctane sulfonamidoacetic acid	NG/L	0		0	28			9.5	U	9.8	U	9.3	UJ	9.7	U	9.9	U	8.9	U
Perfluorobutanesulfonic acid (PFBS)	NG/L	52	MW26-28	16	28			0.56	J	3.8		0.93	U	23		24		0.41	J
Perfluorobutyric acid (PFBA)	NG/L	260	MW26-28	22	28			33		54		6		**160**		**160**		5	
Perfluorodecanesulfonic acid (PFDS)	NG/L	0		0	28			1.4	U	1.5	U	1.4	U	1.5	U	1.5	U	1.3	U
Perfluorodecanoic acid (PFDA)	NG/L	7.5	MW26-28	2	28			0.95	U	0.98	U	0.93	U	0.97	U	0.99	U	0.89	U
Perfluorododecanoic acid (PFDoA)	NG/L	0		0	28			1.4	U	1.5	U	1.4	U	1.5	U	1.5	U	1.3	U
Perfluoroheptanesulfonic Acid (PFHpS)	NG/L	36	MW26-28	7	28			0.95	U	0.98	U	0.93	U	0.47	J	0.59	J	0.89	U
Perfluoroheptanoic acid (PFHpA)	NG/L	580	MW26-28	17	28			15		28		1.6	J	74		77		1.3	U
Perfluorohexanesulfonic acid (PFHxS)	NG/L	910	MW26-28	16	28			0.95	U	20		0.91	J	**120**		**120**		1.8	U
Perfluorohexanoic acid (PFHxA)	NG/L	880	MW26-28	18	28			83		69		4.6		**240**		**250**		1.8	U
Perfluorononanoic acid (PFNA)	NG/L	50	MW26-28	6	28			1.4	U	0.61	J	1.4	U	1.5	U	1.5	U	1.3	U
Perfluorooctane Sulfonamide (FOSA)	NG/L	15	MW26-28	3	28			2.8	U	2.9	U	1.5	J	2.9	U	3	U	2.7	U
Perfluorooctanesulfonic acid (PFOS)	NG/L	2,300	MW26-28	11	28	10	6	2.8	U	**11**		2.8	U	9.5	J	**10**	J	2.7	U
Perfluorooctanoic acid (PFOA)	NG/L	540	MW26-28	19	28	10	10	3.7		**18**		4.5		**24**		**25**		1.3	U
Perfluoropentanoic acid (PFPA)	NG/L	920	MW26-28	20	28			**130**		**130**		7.1		**340**		**350**		1.4	J
Perfluorotetradecanoic acid (PFTeA)	NG/L	0		0	28			2.8	U	2.9	U	2.8	U	2.9	U	3	U	2.7	U
Perfluorotridecanoic Acid (PFTriA)	NG/L	0		0	28			2.8	U	2.9	U	2.8	U	2.9	U	3	U	2.7	U
Perfluoroundecanoic acid (PFUnA)	NG/L	0		0	28			1.4	U	1.5	U	1.4	U	1.5	U	1.5	U	1.3	U
Total PFAS	NG/L	7,539	MW26-28	--	--			265		346		26.2		991		1,017		6.81	

Footnotes:

1) Number of analyses is the number of detected and non-detected results. Sample duplicate pairs have not been averaged.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during data validation.
[blank] = detect, i.e. detected chemical result value.
U = non-detect, i.e. not detected at or above this value.
UJ=The compound was not detected: however, the results is estimated because of discrepancies in meeting certain analyte-specific QC criteria.
J+ = The result is an estimated quantity, but the result may be biased high.
JN = Tentatively identified compound, estimated concentration.
J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the criteria that are present.

- Results in bold **red** color represent values that are above the NYS MCL for PFOA or PFOS [10 ng/L]. ####
- **Bold** values represent results that are at or above DEC guidance for individual PFAS [100 ng/L]. ####
- Shaded values represent results that are at or above DEC guidance for total PFAS [500 ng/L]. ###

4) Criteria action level source document and web address as of 01 December 2020.
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Table 7 - Groundwater Results
SEAD 26 PFAS ESI
Seneca Army Depot Activity

							Area	SEAD-26		SEAD-26		SEAD-26		SEAD-26		SEAD-26		SEAD-26	
							Loc ID	MW26-22		MW26-23		MW26-23D		MW26-24		MW26-25		MW26-26	
							Matrix	GW		GW		GW		GW		GW		GW	
							Sample ID	26ESI20015		26ESI20016		26ESI20017		26ESI20018		26ESI20019		26ESI20020	
							Sample Depth Interval (FT)	--		--		--		--		--		--	
							Sample Date	6/29/2020		8/31/2020		8/31/2020		9/1/2020		9/1/2020		8/14/2020	
							QC Type	SA		SA		SA		SA		SA		SA	
							Study ID	PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI	
Parameter	**Unit**	**Max Detected Value**	**Max Detected Loc ID**	**Number of Detects**	**Number of Analyses**	**NYS MCL**	**Number of Exceedances**	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Per- and polyfluoroalkyl substances (PFAS)																			
6:2 FTS	NG/L	420	MW26-28	7	28			18	U	18	U	16	U	18	U	16	U	18	U
8:2 FTS	NG/L	600	MW26-28	2	28			9	U	9	U	8.2	U	9.1	U	8.1	U	9.1	U
N-ethyl perfluorooctane sulfonamidoacetic acid	NG/L	0		0	28			9	U	9	U	8.2	U	9.1	U	8.1	U	9.1	U
N-methyl perfluorooctane sulfonamidoacetic acid	NG/L	0		0	28			9	U	9	U	8.2	U	9.1	U	8.1	U	9.1	U
Perfluorobutanesulfonic acid (PFBS)	NG/L	52	MW26-28	16	28			0.9	U	12		0.82	U	0.91	U	0.81	U	0.91	U
Perfluorobutyric acid (PFBA)	NG/L	260	MW26-28	22	28			1.8	U	51		4.3		1.4	U	1.2	J	32	
Perfluorodecanesulfonic acid (PFDS)	NG/L	0		0	28			1.4	U	1.3	U	1.2	U	1.4	U	1.2	U	1.4	U
Perfluorodecanoic acid (PFDA)	NG/L	7.5	MW26-28	2	28			0.9	U	0.9	U	0.82	U	0.91	U	0.81	U	0.91	U
Perfluorododecanoic acid (PFDoA)	NG/L	0		0	28			1.4	U	1.3	U	1.2	U	1.4	U	1.2	U	1.4	U
Perfluoroheptanesulfonic Acid (PFHpS)	NG/L	36	MW26-28	7	28			0.9	U	0.9	U	0.82	U	0.91	U	0.81	U	0.91	U
Perfluoroheptanoic acid (PFHpA)	NG/L	580	MW26-28	17	28			1.4	U	19		1.2	U	1.4	U	1.2	U	3.6	
Perfluorohexanesulfonic acid (PFHxS)	NG/L	910	MW26-28	16	28			0.9	U	28		0.82	U	0.91	U	0.38	J	0.91	U
Perfluorohexanoic acid (PFHxA)	NG/L	880	MW26-28	18	28			0.9	U	86		1.6	U	0.91	U	0.81	U	16	
Perfluorononanoic acid (PFNA)	NG/L	50	MW26-28	6	28			1.4	U	1.3	U	1.2	U	1.4	U	1.2	U	1.4	U
Perfluorooctane Sulfonamide (FOSA)	NG/L	15	MW26-28	3	28			2.7	U	2.7	U	2.5	U	2.7	U	2.4	U	2.7	U
Perfluorooctanesulfonic acid (PFOS)	NG/L	2,300	MW26-28	11	28	10	6	2.7	U	3.6	U	2.5	U	2.7	U	2.4	U	2.7	U
Perfluorooctanoic acid (PFOA)	NG/L	540	MW26-28	19	28	10	10	1.4	U	11		1.2	U	1.4	U	1.2	U	1	J
Perfluoropentanoic acid (PFPA)	NG/L	920	MW26-28	20	28			0.9	U	**110**		3.6		0.91	U	1.6	U	61	
Perfluorotetradecanoic acid (PFTeA)	NG/L	0		0	28			2.7	UJ	2.7	U	2.5	U	2.7	U	2.4	U	2.7	U
Perfluorotridecanoic Acid (PFTriA)	NG/L	0		0	28			2.7	U	2.7	U	2.5	U	2.7	U	2.4	U	2.7	U
Perfluoroundecanoic acid (PFUnA)	NG/L	0		0	28			1.4	U	1.3	U	1.2	U	1.4	U	1.2	U	1.4	U
Total PFAS	NG/L	7,539	MW26-28	--	--			--		317		7.9		--		1.58		114	

Footnotes:

1) Number of analyses is the number of detected and non-detected results. Sample duplicate pairs have not been averaged.

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3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the criteria that are present.

- Results in bold **red** color represent values that are above the NYS MCL for PFOA or PFOS [10 ng/L]. ####
- **Bold** values represent results that are at or above DEC guidance for individual PFAS [100 ng/L]. ####
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Table 7 - Groundwater Results
SEAD 26 PFAS ESI
Seneca Army Depot Activity

							Area	SEAD-26		SEAD-26		SEAD-26		SEAD-26		SEAD-26		SEAD-26	
							Loc ID	MW26-27		MW26-28		MW26-28		MW26-28D-DN		MW26-28D-UP		MW26-29	
							Matrix	GW		GW		GW		GW		GW		GW	
							Sample ID	26ESI20021		26ESI20022		26ESI20030		26ESI20024		26ESI20023		26ESI20025	
							Sample Depth Interval (FT)	--		--		--		87.5-87.5		62.5-62.5		--	
							Sample Date	8/21/2020		8/17/2020		8/17/2020		8/18/2020		8/18/2020		8/14/2020	
							QC Type	SA		SA		DU		SA		SA		SA	
							Study ID	PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI	
Parameter	**Unit**	**Max Detected Value**	**Max Detected Loc ID**	**Number of Detects**	**Number of Analyses**	**NYS MCL**	**Number of Exceedances**	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Per- and polyfluoroalkyl substances (PFAS)																			
6:2 FTS	NG/L	420	MW26-28	7	28			19	U	**400**		**420**		18	UJ	18	U	19	U
8:2 FTS	NG/L	600	MW26-28	2	28			9.5	U	**600**		**570**		9.1	UJ	9.1	U	9.4	U
N-ethyl perfluorooctane sulfonamidoacetic acid	NG/L	0		0	28			9.5	U	8.9	U	9.1	U	9.1	UJ	9.1	U	9.4	U
N-methyl perfluorooctane sulfonamidoacetic acid	NG/L	0		0	28			9.5	U	8.9	U	9.1	U	9.1	UJ	9.1	U	9.4	U
Perfluorobutanesulfonic acid (PFBS)	NG/L	52	MW26-28	16	28			0.52	J	52		50		0.91	UJ	0.91	U	1.3	J
Perfluorobutyric acid (PFBA)	NG/L	260	MW26-28	22	28			53		**260**		**260**		1.3	J	1.1	J	19	
Perfluorodecanesulfonic acid (PFDS)	NG/L	0		0	28			1.4	U	1.3	U	1.4	U	1.4	UJ	1.4	U	1.4	U
Perfluorodecanoic acid (PFDA)	NG/L	7.5	MW26-28	2	28			0.95	U	7		7.5		0.91	UJ	0.91	U	0.94	U
Perfluorododecanoic acid (PFDoA)	NG/L	0		0	28			1.4	U	1.3	U	1.4	U	1.4	UJ	1.4	U	1.4	U
Perfluoroheptanesulfonic Acid (PFHpS)	NG/L	36	MW26-28	7	28			0.95	U	35		36		0.91	UJ	0.91	U	0.94	U
Perfluoroheptanoic acid (PFHpA)	NG/L	580	MW26-28	17	28			1.2	J	**580**		**560**		1.4	UJ	1.4	U	17	
Perfluorohexanesulfonic acid (PFHxS)	NG/L	910	MW26-28	16	28			0.61	J	**900**		**910**		1.8	UJ	1.8	U	5	
Perfluorohexanoic acid (PFHxA)	NG/L	880	MW26-28	18	28			15		**880**		**850**		0.91	UJ	0.91	U	51	
Perfluorononanoic acid (PFNA)	NG/L	50	MW26-28	6	28			1.4	U	50		48		1.4	UJ	1.4	U	1.4	U
Perfluorooctane Sulfonamide (FOSA)	NG/L	15	MW26-28	3	28			2.9	U	15		15		2.7	UJ	2.7	U	2.8	U
Perfluorooctanesulfonic acid (PFOS)	NG/L	2,300	MW26-28	11	28	10	6	1.7	J	**2,300**		**2,300**		2.7	UJ	2.7	U	2.8	U
Perfluorooctanoic acid (PFOA)	NG/L	540	MW26-28	19	28	10	10	2.7		**540**		**530**		1.4	UJ	1.4	U	8.2	
Perfluoropentanoic acid (PFPA)	NG/L	920	MW26-28	20	28			58		**920**		**900**		1.8	UJ	1.8	U	56	
Perfluorotetradecanoic acid (PFTeA)	NG/L	0		0	28			2.9	U	2.7	U	2.7	U	2.7	UJ	2.7	U	2.8	U
Perfluorotridecanoic Acid (PFTriA)	NG/L	0		0	28			2.9	U	2.7	U	2.7	U	2.7	UJ	2.7	U	2.8	U
Perfluoroundecanoic acid (PFUnA)	NG/L	0		0	28			1.4	U	1.3	U	1.4	U	1.4	UJ	1.4	U	1.4	U
Total PFAS	NG/L	7,539	MW26-28	--	--			133		7,539		7,457		1.3		1.1		158	

Footnotes:

1) Number of analyses is the number of detected and non-detected results. Sample duplicate pairs have not been averaged.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during data validation.
[blank] = detect, i.e. detected chemical result value.
U = non-detect, i.e. not detected at or above this value.
UJ=The compound was not detected: however, the results is estimated because of discrepancies in meeting certain analyte-specific QC criteria.
J+ = The result is an estimated quantity, but the result may be biased high.
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3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the criteria that are present.

- Results in bold red color represent values that are above the NYS MCL for PFOA or PFOS [10 ng/L]. ####
- **Bold** values represent results that are at or above DEC guidance for individual PFAS [100 ng/L]. ####
- Shaded values represent results that are at or above DEC guidance for total PFAS [500 ng/L]. ###

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Table 7 - Groundwater Results
SEAD 26 PFAS ESI
Seneca Army Depot Activity

							Area	SEAD-26		SEAD-26		SEAD-26		SEAD-26	
							Loc ID	MW26-30		MW26-31		MW26-32D-DN		MW26-32D-UP	
							Matrix	GW		GW		GW		GW	
							Sample ID	26ESI20026		26ESI20027		26ESI20029		26ESI20028	
							Sample Depth Interval (FT)	--		--		69-69		49-49	
							Sample Date	8/18/2020		8/18/2020		8/19/2020		8/18/2020	
							QC Type	SA		SA		SA		SA	
							Study ID	PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI	
Parameter	**Unit**	**Max Detected Value**	**Max Detected Loc ID**	**Number of Detects**	**Number of Analyses**	**NYS MCL**	**Number of Exceedances**	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Per- and polyfluoroalkyl substances (PFAS)															
6:2 FTS	NG/L	420	MW26-28	7	28			18	U	9.2	J	18	U	18	U
8:2 FTS	NG/L	600	MW26-28	2	28			8.8	U	9.3	U	9	U	8.8	U
N-ethyl perfluorooctane sulfonamidoacetic acid	NG/L	0		0	28			8.8	U	9.3	U	9	U	8.8	U
N-methyl perfluorooctane sulfonamidoacetic acid	NG/L	0		0	28			8.8	U	9.3	U	9	U	8.8	U
Perfluorobutanesulfonic acid (PFBS)	NG/L	52	MW26-28	16	28			18		5.8		0.9	U	0.88	U
Perfluorobutyric acid (PFBA)	NG/L	260	MW26-28	22	28			86		61		1.3	U	1.3	U
Perfluorodecanesulfonic acid (PFDS)	NG/L	0		0	28			1.3	U	1.4	U	1.3	U	1.3	U
Perfluorodecanoic acid (PFDA)	NG/L	7.5	MW26-28	2	28			0.88	U	0.93	U	0.9	U	0.88	U
Perfluorododecanoic acid (PFDoA)	NG/L	0		0	28			1.3	U	1.4	U	1.3	U	1.3	U
Perfluoroheptanesulfonic Acid (PFHpS)	NG/L	36	MW26-28	7	28			0.47	JN	0.93	U	0.9	U	0.88	U
Perfluoroheptanoic acid (PFHpA)	NG/L	580	MW26-28	17	28			65		47		1.3	U	1.3	U
Perfluorohexanesulfonic acid (PFHxS)	NG/L	910	MW26-28	16	28			**190**		52		0.9	U	0.88	U
Perfluorohexanoic acid (PFHxA)	NG/L	880	MW26-28	18	28			**190**		**120**		0.9	U	0.88	U
Perfluorononanoic acid (PFNA)	NG/L	50	MW26-28	6	28			0.5	J	1.4	U	1.3	U	1.3	U
Perfluorooctane Sulfonamide (FOSA)	NG/L	15	MW26-28	3	28			2.7	U	2.8	U	2.7	U	2.6	U
Perfluorooctanesulfonic acid (PFOS)	NG/L	2,300	MW26-28	11	28	10	6	9.7		7.3		2.7	U	2.6	U
Perfluorooctanoic acid (PFOA)	NG/L	540	MW26-28	19	28	10	10	**37**		**41**		1.3	U	1.3	U
Perfluoropentanoic acid (PFPA)	NG/L	920	MW26-28	20	28			**160**		**120**		0.9	U	1.8	U
Perfluorotetradecanoic acid (PFTeA)	NG/L	0		0	28			2.7	U	2.8	U	2.7	U	2.6	U
Perfluorotridecanoic Acid (PFTriA)	NG/L	0		0	28			2.7	U	2.8	U	2.7	U	2.6	U
Perfluoroundecanoic acid (PFUnA)	NG/L	0		0	28			1.3	U	1.4	U	1.3	U	1.3	U
Total PFAS	NG/L	7,539	MW26-28	--	--			757		463		--		--	

Footnotes:

1) Number of analyses is the number of detected and non-detected results. Sample duplicate pairs have not been averaged.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during data validation.
[blank] = detect, i.e. detected chemical result value.
U = non-detect, i.e. not detected at or above this value.
UJ=The compound was not detected: however, the results is estimated because of discrepancies in meeting certain analyte-specific QC criteria.
J+ = The result is an estimated quantity, but the result may be biased high.
JN = Tentatively identified compound, estimated concentration.
J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the criteria that are present.

- Results in bold **red** color represent values that are above the NYS MCL for PFOA or PFOS [10 ng/L]. **####**
- **Bold** values represent results that are at or above DEC guidance for individual PFAS [100 ng/L]. **####**
- Shaded values represent results that are at or above DEC guidance for total PFAS [500 ng/L]. ###

4) Criteria action level source document and web address as of 01 December 2020.
- NY State Department of Health MCL (11-2020)
https://regs.health.ny.gov/sites/default/files/proposed-regulations/Maximum%20Contaminant%20Levels%20%28MCLs%29.pdf

Table 8 - Surface Water Results
SEAD 26 PFAS ESI
Seneca Army Depot Activity

							Area	SEAD-26		SEAD-26		SEAD-26		SEAD-26		SEAD-26	
							Loc ID	SW26-03		SW26-04		SW26-04		SW26-05		SW26-06	
							Matrix	SW		SW		SW		SW		SW	
							Sample ID	26ESI30003		26ESI30004		26ESI30005		26ESI30006		26ESI30007	
							Sample Date	8/21/2020		8/25/2020		8/25/2020		8/28/2020		8/28/2020	
							QC Type	SA		SA		DU		SA		SA	
							Study ID	PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI		PFAS ESI	
Parameter	**Unit**	**Max Detected Value**		**Max Detected Loc ID**	**Number of Detects**	**Number of Analyses**	**NYS MCL**	**Number of Exceedances**	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
Per- and polyfluoroalkyl substances (PFAS)																		
6:2 FTS	NG/L	0			0	5			18	U	18	U	17	U	19	U	18	U
8:2 FTS	NG/L	0			0	5			8.9	U	8.9	U	8.7	U	9.4	U	9	U
N-ethyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	5			8.9	U	8.9	U	8.7	U	9.4	U	9	U
N-methyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	5			8.9	U	8.9	U	8.7	U	9.4	U	9	U
Perfluorobutanesulfonic acid (PFBS)	NG/L	1.5	J	SW26-05	5	5			0.47	J	0.96	J	1.3	J	1.5	J	1.4	J
Perfluorobutyric acid (PFBA)	NG/L	13		SW26-05	5	5			3.5		6.6		6.8		13		12	J-
Perfluorodecanesulfonic acid (PFDS)	NG/L	0			0	5			1.3	U	1.3	U	1.3	U	1.4	U	1.3	U
Perfluorodecanoic acid (PFDA)	NG/L	0			0	5			0.89	U	0.89	U	0.87	U	0.94	U	0.9	U
Perfluorododecanoic acid (PFDoA)	NG/L	0			0	5			1.3	U	1.3	U	1.3	U	1.4	U	1.3	U
Perfluoroheptanesulfonic Acid (PFHpS)	NG/L	0			0	5			0.89	U	0.89	U	0.87	U	0.94	U	0.9	U
Perfluoroheptanoic acid (PFHpA)	NG/L	3.5		SW26-05	4	5			1.3	U	2.1		2.4		3.5		3.4	
Perfluorohexanesulfonic acid (PFHxS)	NG/L	5.2		SW26-04	5	5			1.6	J	4.6		5.2		3.8		4.2	
Perfluorohexanoic acid (PFHxA)	NG/L	6.4		SW26-06	4	5			1.8	U	3.6		4.3		6.3		6.4	
Perfluorononanoic acid (PFNA)	NG/L	0.6	J	SW26-06	3	5			1.3	U	1.3	U	0.52	JN	0.56	J	0.6	J
Perfluorooctane Sulfonamide (FOSA)	NG/L	0			0	5			2.7	U	2.7	U	2.6	U	2.8	U	2.7	U
Perfluorooctanesulfonic acid (PFOS)	NG/L	5.8		SW26-06	5	5	10	0	3.3	J	2.7	J	4.6		4.8		5.8	
Perfluorooctanoic acid (PFOA)	NG/L	3.2		SW26-05	5	5	10	0	0.93	J	2.2		2.5		3.2		2.7	
Perfluoropentanoic acid (PFPA)	NG/L	7.5		SW26-05	4	5			1.8	U	4		4.4		7.5		7.2	
Perfluorotetradecanoic acid (PFTeA)	NG/L	0			0	5			2.7	U	2.7	UJ	2.6	UJ	2.8	UJ	2.7	UJ
Perfluorotridecanoic Acid (PFTriA)	NG/L	0			0	5			2.7	U	2.7	U	2.6	U	2.8	U	2.7	U
Perfluoroundecanoic acid (PFUnA)	NG/L	0			0	5			1.3	U	1.3	U	1.3	U	1.4	U	1.3	U
Total PFAS	NG/L								9.8		26.8		32.0		44.2		43.7	

Footnotes:

1) Number of analyses is the number of detected and non-detected results. Sample duplicate pairs have not been averaged.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during data validation.

[blank] = detect, i.e. detected chemical result value.

U = non-detect, i.e. not detected at or above this value.

UJ=The compound was not detected: however, the results is estimated because of discrepancies in meeting certain analyte-specific QC criteria.

J- = The result is an estimated quantity, but the result may be biased low.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the criteria that are present.

- Results in bold **red** color represent values that are above the NYS MCL for PFOA or PFOS [10 ng/L]. **####**
- **Bold** values represent results that are at or above DEC guidance for individual PFAS [100 ng/L]. **####**
- Shaded values represent results that are at or above DEC guidance for total PFAS [500 ng/L]. ###

4) Criteria action level source document and web address as of 01 December 2020.

- NY State Department of Health MCL (11-2020)

https://regs.health.ny.gov/sites/default/files/proposed-regulations/Maximum%20Contaminant%20Levels%20%28MCLs%29.pdf

Table 9 - Soil SPLP Leachate Results
SEAD 26 PFAS ESI
Seneca Army Depot Activity

						Area	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26	SEAD-26
						Loc ID	SB26-13	SB26-14	SB26-14	SB26-15	SB26-16	SB26-16	SB26-17
						Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
						Sample ID	26ESI10001	26ESI10007	26ESI10002	26ESI10003	26ESI10006	26ESI10004	26ESI10005
						Sample Depth Interval (FT)	2.5-3	0-2.5	2.5-3	2.5-3	0-2.167	2.5-3	2.5-3
						Sample Date	8/13/2020	8/13/2020	8/13/2020	8/13/2020	8/13/2020	8/13/2020	8/12/2020
						QC Type	SA	SA	SA	SA	SA	SA	SA
Parameter	**Unit**	**Max Detected Value**		**Max Detected Loc ID**	**Number of Detects**	**Number of Analyses**	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual	Value Qual
Per- and polyfluoroalkyl substances (PFAS)													
6:2 FTS	NG/L	290		SB26-14	2	7	18 U	270 J+	290	19 U	20 U	19 U	19 U
8:2 FTS	NG/L	330	J+	SB26-14	1	7	9.1 U	330 J+	9.6 U	9.6 U	9.8 U	9.7 U	9.6 U
N-ethyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	7	9.1 U	9 U	9.6 U	9.6 U	9.8 U	9.7 U	9.6 U
N-methyl perfluorooctane sulfonamidoacetic acid	NG/L	0			0	7	9.1 U	9 U	9.6 U	9.6 U	9.8 U	9.7 U	9.6 U
Perfluorobutanesulfonic acid (PFBS)	NG/L	19		SB26-14	4	7	0.91 U	17	19	1.4 J	0.98 U	0.97 U	1.5 J
Perfluorobutyric acid (PFBA)	NG/L	53		SB26-16	7	7	8.3	40	42	20	53	17	7.9
Perfluorodecanesulfonic acid (PFDS)	NG/L	2.3		SB26-14	1	7	1.4 U	2.3	1.4 U	1.4 U	1.5 U	1.5 U	1.4 U
Perfluorodecanoic acid (PFDA)	NG/L	54		SB26-14	2	7	0.91 U	54	0.96 U	0.94 J	0.98 U	0.97 U	0.96 U
Perfluorododecanoic acid (PFDoA)	NG/L	0.83	J	SB26-14	1	7	1.4 U	0.83 J	1.4 U	1.4 U	1.5 U	1.5 U	1.4 U
Perfluoroheptanesulfonic Acid (PFHpS)	NG/L	25		SB26-14	4	7	0.91 U	23	25	4.1	0.98 U	0.97 U	0.83 J
Perfluoroheptanoic acid (PFHpA)	NG/L	210		SB26-14	7	7	8.5	210	91	27	21	16	9.9
Perfluorohexanesulfonic acid (PFHxS)	NG/L	290		SB26-14	7	7	0.43 J	290	280	49	12	3.2	56
Perfluorohexanoic acid (PFHxA)	NG/L	170		SB26-14	7	7	30	170	150	21	21	11	21
Perfluorononanoic acid (PFNA)	NG/L	39		SB26-14	5	7	1.4 U	39	1.4 U	33	16	2	3.1
Perfluorooctane Sulfonamide (FOSA)	NG/L	4		SB26-14	2	7	2.7 U	4	2.9 U	1.2 J	2.9 U	2.9 U	2.9 U
Perfluorooctanesulfonic acid (PFOS)	NG/L	1,500		SB26-14	7	7	2.2 J	1,500	250	470	15	1.9 J	36
Perfluorooctanoic acid (PFOA)	NG/L	280		SB26-14	7	7	0.8 J	200	280	39	29	18	16
Perfluoropentanoic acid (PFPA)	NG/L	150		SB26-14	7	7	28	150	140	44	84	39	17
Perfluorotetradecanoic acid (PFTeA)	NG/L	0			0	7	2.7 U	2.7 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U
Perfluorotridecanoic Acid (PFTriA)	NG/L	0			0	7	2.7 U	2.7 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U
Perfluoroundecanoic acid (PFUnA)	NG/L	8.1		SB26-14	1	7	1.4 U	8.1	1.4 U	1.4 U	1.5 U	1.5 U	1.4 U

Footnotes:

1) Number of analyses is the number of detected and non-detected results. Sample duplicate pairs have not been averaged.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during data validation.

[blank] = detect, i.e. detected chemical result value.

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