

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

KOMAN, PFAS RI, Surface Water/Sediment-Area3

AOC 20, Waste Water Treatment Plant Sand Filter Beds

Locations: US-19-01

Field Sample ID: US-19-01-SE-OCT19

Sample Begin Depth: 0.00

Sample End Depth: 0.50

Sample Date: 10/18/2019

**Gen. Chemistry (mg/kg)**

Total Organic Carbon **130000**

**PFAS (ug/kg)**

6:2 Fluorotelomer sulfonate (6:2 FTS) 5.30 U

8:2 Fluorotelomer sulfonate (8:2 FTS) 2.70 U

N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA) **2.00 J**

N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA) **0.860 J**

Perfluorobutanesulfonic acid (PFBS) 0.480 U

Perfluorodecanoic acid (PFDA) **0.640 J**

Perfluorododecanoic acid (PFDoA) **0.620 J**

Perfluoroheptanoic acid (PFHpA) 0.530 U

Perfluorohexanesulfonic acid (PFHxS) 0.530 U

Perfluorohexanoic acid (PFHxA) 0.530 U

Perfluorononanoic acid (PFNA) **0.210 J**

Perfluorooctanesulfonic acid (PFOS) **6.70**

Perfluorooctanoic acid (PFOA) **0.460 J**

Perfluorotetradecanoic acid (PFTA) 0.800 U

Perfluorotridecanoic acid (PFTTrDA) **0.280 J**

Perfluoroundecanoic acid (PFUnA) **0.660 J**

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

KOMAN, PFAS RI, Surface Water/Sediment-Area3

AOC 21, Waste Water Treatment Plant Sludge Drying Beds

Locations:	UP-19-01	UP-19-01
Field Sample ID:	UP-19-01-SE-OCT19	UP-19-01-SW-OCT19
Sample Begin Depth:	0.00	0.00
Sample End Depth:	0.50	0.00
Sample Date:	10/17/2019	10/17/2019

<b>Gen. Chemistry (mg/kg)</b>		
Total Organic Carbon	<b>7000</b>	-

<b>PFAS (ng/L)</b>		
6:2 Fluorotelomer sulfonate (6:2 FTS)	-	20.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	-	10.0 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	-	10.0 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	-	10.0 U
Perfluorobutanesulfonic acid (PFBS)	-	<b>3.10</b>
Perfluorodecanoic acid (PFDA)	-	<b>2.30</b>
Perfluorododecanoic acid (PFDoA)	-	1.50 U
Perfluoroheptanoic acid (PFHpA)	-	<b>9.90</b>
Perfluorohexanesulfonic acid (PFHxS)	-	<b>6.40</b>
Perfluorohexanoic acid (PFHxA)	-	<b>11.0</b>
Perfluorononanoic acid (PFNA)	-	<b>5.90</b>
Perfluorooctanesulfonic acid (PFOS)	-	<b>82.0</b>
Perfluorooctanoic acid (PFOA)	-	<b>19.0</b>
Perfluorotetradecanoic acid (PFTA)	-	3.00 U
Perfluorotridecanoic acid (PFTrDA)	-	3.00 U
Perfluoroundecanoic acid (PFUnA)	-	1.50 U

<b>PFAS (ug/kg)</b>		
6:2 Fluorotelomer sulfonate (6:2 FTS)	2.60 U	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	1.30 U	-
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.30 U	-
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.30 U	-
Perfluorobutanesulfonic acid (PFBS)	0.230 U	-
Perfluorodecanoic acid (PFDA)	0.260 U	-

**Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020**

<b>Locations:</b>	UP-19-01	UP-19-01
<b>Field Sample ID:</b>	UP-19-01-SE-OCT19	UP-19-01-SW-OCT19
<b>Sample Begin Depth:</b>	0.00	0.00
<b>Sample End Depth:</b>	0.50	0.00
<b>Sample Date:</b>	10/17/2019	10/17/2019
Perfluorododecanoic acid (PFDoA)	0.260 U	-
Perfluoroheptanoic acid (PFHpA)	0.260 U	-
Perfluorohexanesulfonic acid (PFHxS)	0.260 U	-
Perfluorohexanoic acid (PFHxA)	0.260 U	-
Perfluorononanoic acid (PFNA)	0.260 U	-
Perfluorooctanesulfonic acid (PFOS)	1.30 U	-
Perfluorooctanoic acid (PFOA)	0.260 U	-
Perfluorotetradecanoic acid (PFTA)	0.380 U	-
Perfluorotridecanoic acid (PFTTrDA)	0.260 U	-
Perfluoroundecanoic acid (PFUnA)	0.260 U	-

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

KOMAN, PFAS RI, Surface Water/Sediment-Area3

AOO 50, Former Moore Army Air Field

Locations:	AFW-19-01	AFW-19-01	AFW-19-02	AFW-19-02
Field Sample ID:	AFW-19-01_SE-OCT19	AFW-19-01_SW-OCT19	AFW-19-02_SE-OCT19	AFW-19-02_SW-OCT19
Sample Begin Depth:	0.00	0.00	0.00	0.00
Sample End Depth:	0.50	0.00	0.50	0.00
Sample Date:	10/18/2019	10/18/2019	10/18/2019	10/18/2019

Gen. Chemistry (mg/kg)

Total Organic Carbon	160000	-	300000	-
----------------------	--------	---	--------	---

PFAS (ng/L)

6:2 Fluorotelomer sulfonate (6:2 FTS)	-	20.0 U	-	20.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	-	9.80 U	-	10.0 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	-	9.80 U	-	10.0 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	-	9.80 U	-	10.0 U
Perfluorobutanesulfonic acid (PFBS)	-	0.510 J	-	1.50 J
Perfluorodecanoic acid (PFDA)	-	0.600 J	-	0.820 J
Perfluorododecanoic acid (PFDoA)	-	1.50 U	-	1.50 U
Perfluoroheptanoic acid (PFHpA)	-	3.40	-	4.40
Perfluorohexanesulfonic acid (PFHxS)	-	4.90	-	12.0
Perfluorohexanoic acid (PFHxA)	-	3.00	-	6.20
Perfluorononanoic acid (PFNA)	-	1.00 J	-	1.60 J
Perfluorooctanesulfonic acid (PFOS)	-	6.70	-	13.0
Perfluorooctanoic acid (PFOA)	-	4.50	-	9.30
Perfluorotetradecanoic acid (PFTA)	-	2.90 U	-	3.00 U
Perfluorotridecanoic acid (PFTTrDA)	-	2.90 U	-	3.00 U
Perfluoroundecanoic acid (PFUnA)	-	1.50 U	-	1.50 U

PFAS (ug/kg)

6:2 Fluorotelomer sulfonate (6:2 FTS)	11.0 U	-	12.0 U	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	5.40 U	-	5.90 U	-
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	5.40 U	-	2.00 J	-
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5.40 U	-	5.90 U	-
Perfluorobutanesulfonic acid (PFBS)	0.980 U	-	1.10 U	-
Perfluorodecanoic acid (PFDA)	0.530 J	-	1.10 J	-
Perfluorododecanoic acid (PFDoA)	1.10 U	-	0.640 J	-

**Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020**

	<b>Locations:</b> AFW-19-01	AFW-19-01	AFW-19-02	AFW-19-02
	<b>Field Sample ID:</b> AFW-19-01_SE-OCT19	AFW-19-01_SW-OCT19	AFW-19-02_SE-OCT19	AFW-19-02_SW-OCT19
	<b>Sample Begin Depth:</b> 0.00	0.00	0.00	0.00
	<b>Sample End Depth:</b> 0.50	0.00	0.50	0.00
	<b>Sample Date:</b> 10/18/2019	10/18/2019	10/18/2019	10/18/2019
Perfluoroheptanoic acid (PFHpA)	1.10 U	-	1.20 U	-
Perfluorohexanesulfonic acid (PFHxS)	<b>1.10 J</b>	-	<b>1.90</b>	-
Perfluorohexanoic acid (PFHxA)	1.10 U	-	1.20 U	-
Perfluorononanoic acid (PFNA)	1.10 U	-	<b>0.640 J</b>	-
Perfluorooctanesulfonic acid (PFOS)	<b>5.30 J</b>	-	<b>16.0</b>	-
Perfluorooctanoic acid (PFOA)	<b>0.770 J</b>	-	<b>1.20 J</b>	-
Perfluorotetradecanoic acid (PFTA)	1.60 U	-	1.80 U	-
Perfluorotridecanoic acid (PFTrDA)	1.10 U	-	1.20 U	-
Perfluoroundecanoic acid (PFUnA)	1.10 U	-	<b>1.40 J</b>	-

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

KOMAN, PFAS RI, Surface Water/Sediment-Area3

Nashua River

<b>Locations:</b> NR-19-01	NR-19-01	NR-19-02	NR-19-02	NR-19-02 (FD)
<b>Field Sample ID:</b> NR-19-01-SE-OCT19	NR-19-01-SW-OCT19	NR-19-02-SE-OCT19	NR-19-02-SW-OCT19	A3-SE-DUP-101619
<b>Sample Begin Depth:</b> 0.00	0.00	0.00	0.00	0.00
<b>Sample End Depth:</b> 0.50	0.00	0.50	0.00	0.50
<b>Sample Date:</b> 10/17/2019	10/17/2019	10/16/2019	10/16/2019	10/16/2019

<b>Gen. Chemistry (mg/kg)</b>					
Total Organic Carbon	<b>130000</b>	-	<b>11000</b>	-	<b>10000</b>

<b>PFAS (ng/L)</b>					
6:2 Fluorotelomer sulfonate (6:2 FTS)	-	20.0 U	-	19.0 U	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	-	9.80 U	-	9.30 U	-
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	-	9.80 U	-	9.30 U	-
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	-	9.80 U	-	9.30 U	-
Perfluorobutanesulfonic acid (PFBS)	-	<b>7.10</b>	-	<b>9.90</b>	-
Perfluorodecanoic acid (PFDA)	-	<b>1.30 J</b>	-	<b>0.810 J</b>	-
Perfluorododecanoic acid (PFDoA)	-	1.50 U	-	1.40 U	-
Perfluoroheptanoic acid (PFHpA)	-	<b>6.90</b>	-	<b>9.70</b>	-
Perfluorohexanesulfonic acid (PFHxS)	-	<b>2.20</b>	-	<b>2.90</b>	-
Perfluorohexanoic acid (PFHxA)	-	<b>14.0</b>	-	<b>19.0</b>	-
Perfluorononanoic acid (PFNA)	-	<b>1.60 J</b>	-	<b>1.30 J</b>	-
Perfluorooctanesulfonic acid (PFOS)	-	<b>7.90</b>	-	<b>6.40</b>	-
Perfluorooctanoic acid (PFOA)	-	<b>13.0</b>	-	<b>16.0</b>	-
Perfluorotetradecanoic acid (PFTA)	-	3.00 U	-	2.80 U	-
Perfluorotridecanoic acid (PFTrDA)	-	3.00 U	-	2.80 U	-
Perfluoroundecanoic acid (PFUnA)	-	1.50 U	-	1.40 U	-

<b>PFAS (ug/kg)</b>					
6:2 Fluorotelomer sulfonate (6:2 FTS)	6.50 U	-	3.20 U	-	3.30 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	3.30 U	-	1.60 U	-	1.70 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<b>8.50</b>	-	<b>0.570 J</b>	-	<b>0.710 J</b>
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<b>3.70 J</b>	-	1.60 U	-	1.70 U
Perfluorobutanesulfonic acid (PFBS)	0.590 U	-	0.290 U	-	0.300 U
Perfluorodecanoic acid (PFDA)	<b>0.920 J</b>	-	0.320 U	-	<b>0.160 J</b>
Perfluorododecanoic acid (PFDoA)	<b>1.10</b>	-	0.320 U	-	0.330 U

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

	Locations: NR-19-02 (FD)	NR-19-03	NR-19-03	NR-19-04	NR-19-04
Field Sample ID:	A3-SW-DUP-101619	NR-19-03-SE-OCT19	NR-19-03-SW-OCT19	NR-19-04-SE-OCT19	NR-19-04-SW-OCT19
Sample Begin Depth:	0.00	0.00	0.00	0.00	0.00
Sample End Depth:	0.00	0.50	0.00	0.50	0.00
Sample Date:	10/16/2019	10/16/2019	10/16/2019	10/16/2019	10/16/2019
<b>Gen. Chemistry (mg/kg)</b>					
Total Organic Carbon	-	<b>67000</b>	-	<b>17000</b>	-
<b>PFAS (ng/L)</b>					
6:2 Fluorotelomer sulfonate (6:2 FTS)	18.0 U	-	18.0 U	-	18.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	9.10 U	-	9.20 U	-	8.90 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	9.10 U	-	9.20 U	-	8.90 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	9.10 U	-	9.20 U	-	8.90 U
Perfluorobutanesulfonic acid (PFBS)	<b>11.0</b>	-	<b>9.70</b>	-	<b>9.70</b>
Perfluorodecanoic acid (PFDA)	<b>0.780 J</b>	-	<b>0.850 J</b>	-	<b>0.770 J</b>
Perfluorododecanoic acid (PFDoA)	1.40 U	-	1.40 U	-	1.30 U
Perfluoroheptanoic acid (PFHpA)	<b>10.0</b>	-	<b>9.50</b>	-	<b>9.30</b>
Perfluorohexanesulfonic acid (PFHxS)	<b>2.90</b>	-	<b>2.70</b>	-	<b>2.80</b>
Perfluorohexanoic acid (PFHxA)	<b>20.0</b>	-	<b>19.0</b>	-	<b>18.0</b>
Perfluorononanoic acid (PFNA)	<b>1.40 J</b>	-	<b>1.40 J</b>	-	<b>1.30 J</b>
Perfluorooctanesulfonic acid (PFOS)	<b>6.80</b>	-	<b>6.10</b>	-	<b>6.40</b>
Perfluorooctanoic acid (PFOA)	<b>16.0</b>	-	<b>16.0</b>	-	<b>16.0</b>
Perfluorotetradecanoic acid (PFTA)	2.70 U	-	2.80 U	-	2.70 U
Perfluorotridecanoic acid (PFTrDA)	2.70 U	-	2.80 U	-	2.70 U
Perfluoroundecanoic acid (PFUnA)	1.40 U	-	1.40 U	-	1.30 U
<b>PFAS (ug/kg)</b>					
6:2 Fluorotelomer sulfonate (6:2 FTS)	-	5.10 U	-	3.30 U	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	-	2.60 U	-	1.70 U	-
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	-	<b>1.20 J</b>	-	1.70 U	-
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	-	2.60 U	-	1.70 U	-
Perfluorobutanesulfonic acid (PFBS)	-	0.460 U	-	0.300 U	-
Perfluorodecanoic acid (PFDA)	-	0.510 U	-	<b>0.300 J</b>	-
Perfluorododecanoic acid (PFDoA)	-	<b>0.260 J</b>	-	0.330 U	-

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

	Locations: NR-19-05	NR-19-05	NR-19-06	NR-19-06	NR-19-07
	Field Sample ID: NR-19-05-SE-OCT19	NR-19-05-SW-OCT19	NR-19-06-SE-OCT19	NR-19-06-SW-OCT19	NR-19-07-SE-OCT19
	Sample Begin Depth: 0.00	0.00	0.00	0.00	0.00
	Sample End Depth: 0.50	0.00	0.50	0.00	0.50
	Sample Date: 10/16/2019	10/16/2019	10/15/2019	10/15/2019	10/15/2019
<b>Gen. Chemistry (mg/kg)</b>					
Total Organic Carbon	<b>22000</b>	-	<b>1500 J</b>	-	<b>21000</b>
<b>PFAS (ng/L)</b>					
6:2 Fluorotelomer sulfonate (6:2 FTS)	-	19.0 U	-	18.0 U	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	-	9.30 U	-	9.20 U	-
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	-	9.30 U	-	9.20 U	-
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	-	9.30 U	-	9.20 U	-
Perfluorobutanesulfonic acid (PFBS)	-	<b>9.20</b>	-	<b>8.40</b>	-
Perfluorodecanoic acid (PFDA)	-	<b>0.770 J</b>	-	<b>3.10</b>	-
Perfluorododecanoic acid (PFDoA)	-	<b>0.950 J</b>	-	1.40 U	-
Perfluoroheptanoic acid (PFHpA)	-	<b>9.70</b>	-	<b>14.0</b>	-
Perfluorohexanesulfonic acid (PFHxS)	-	<b>3.80</b>	-	<b>8.50</b>	-
Perfluorohexanoic acid (PFHxA)	-	<b>19.0</b>	-	<b>20.0</b>	-
Perfluorononanoic acid (PFNA)	-	<b>1.30 J</b>	-	<b>2.80</b>	-
Perfluorooctanesulfonic acid (PFOS)	-	<b>7.20</b>	-	<b>56.0</b>	-
Perfluorooctanoic acid (PFOA)	-	<b>15.0</b>	-	<b>28.0</b>	-
Perfluorotetradecanoic acid (PFTA)	-	2.80 U	-	2.80 U	-
Perfluorotridecanoic acid (PFTrDA)	-	2.80 U	-	2.80 U	-
Perfluoroundecanoic acid (PFUnA)	-	1.40 U	-	<b>0.990 J</b>	-
<b>PFAS (ug/kg)</b>					
6:2 Fluorotelomer sulfonate (6:2 FTS)	4.40 U	-	2.40 U	-	3.20 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	2.20 U	-	1.20 U	-	1.60 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<b>4.90 J</b>	-	1.20 U	-	<b>3.70</b>
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<b>0.840 J</b>	-	<b>0.520 J</b>	-	<b>1.50 J</b>
Perfluorobutanesulfonic acid (PFBS)	0.400 U	-	0.220 U	-	0.290 U
Perfluorodecanoic acid (PFDA)	0.440 U	-	0.240 U	-	0.320 U
Perfluorododecanoic acid (PFDoA)	0.440 U	-	0.240 U	-	0.320 U



Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

	Locations: NR-19-07	NR-19-08	NR-19-08	NR-19-09	NR-19-09
	Field Sample ID: NR-19-07-SW-OCT19	NR-19-08-SE-OCT19	NR-19-08-SW-OCT19	NR-19-09-SE-OCT19	NR-19-09-SW-OCT19
	Sample Begin Depth: 0.00	0.00	0.00	0.00	0.00
	Sample End Depth: 0.00	0.50	0.00	0.50	0.00
	Sample Date: 10/15/2019	10/15/2019	10/15/2019	10/15/2019	10/15/2019
<b>Gen. Chemistry (mg/kg)</b>					
Total Organic Carbon	-	<b>12000</b>	-	<b>5400</b>	-
<b>PFAS (ng/L)</b>					
6:2 Fluorotelomer sulfonate (6:2 FTS)	19.0 U	-	19.0 U	-	19.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	9.50 U	-	9.40 U	-	9.30 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	9.50 U	-	9.40 U	-	9.30 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	9.50 U	-	9.40 U	-	9.30 U
Perfluorobutanesulfonic acid (PFBS)	<b>7.70</b>	-	<b>7.90</b>	-	<b>8.10</b>
Perfluorodecanoic acid (PFDA)	<b>0.900 J</b>	-	<b>0.820 J</b>	-	<b>0.900 J</b>
Perfluorododecanoic acid (PFDoA)	1.40 U	-	1.40 U	-	<b>0.710 J</b>
Perfluoroheptanoic acid (PFHpA)	<b>9.30</b>	-	<b>9.30</b>	-	<b>9.10</b>
Perfluorohexanesulfonic acid (PFHxS)	<b>4.10</b>	-	<b>12.0</b>	-	<b>8.30</b>
Perfluorohexanoic acid (PFHxA)	<b>17.0</b>	-	<b>19.0</b>	-	<b>18.0</b>
Perfluorononanoic acid (PFNA)	<b>1.50 J</b>	-	<b>1.40 J</b>	-	<b>1.40 J</b>
Perfluorooctanesulfonic acid (PFOS)	<b>10.0</b>	-	<b>8.10</b>	-	<b>9.00</b>
Perfluorooctanoic acid (PFOA)	<b>15.0</b>	-	<b>17.0</b>	-	<b>17.0</b>
Perfluorotetradecanoic acid (PFTA)	2.80 U	-	2.80 U	-	2.80 U
Perfluorotridecanoic acid (PFTrDA)	2.80 U	-	2.80 U	-	2.80 U
Perfluoroundecanoic acid (PFUnA)	1.40 U	-	1.40 U	-	1.40 U
<b>PFAS (ug/kg)</b>					
6:2 Fluorotelomer sulfonate (6:2 FTS)	-	3.50 U	-	2.70 U	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	-	1.70 U	-	1.30 U	-
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	-	1.70 U	-	1.30 U	-
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	-	1.70 U	-	1.30 U	-
Perfluorobutanesulfonic acid (PFBS)	-	0.310 U	-	0.240 U	-
Perfluorodecanoic acid (PFDA)	-	0.350 U	-	0.270 U	-
Perfluorododecanoic acid (PFDoA)	-	0.350 U	-	0.270 U	-

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

	Locations: NR-19-10	NR-19-10	NR-19-11	NR-19-11	NR-19-11 (FD)
Field Sample ID:	NR-19-10-SE-OCT19	NR-19-10-SW-OCT19	NR-19-11-SE-OCT19	NR-19-11-SW-OCT19	A3-SE-DUP-101419
Sample Begin Depth:	0.00	0.00	0.00	0.00	0.00
Sample End Depth:	0.50	0.00	0.50	0.00	0.50
Sample Date:	10/15/2019	10/15/2019	10/14/2019	10/14/2019	10/14/2019
<b>Gen. Chemistry (mg/kg)</b>					
Total Organic Carbon	<b>6700</b>	-	<b>13000</b>	-	<b>13000</b>
<b>PFAS (ng/L)</b>					
6:2 Fluorotelomer sulfonate (6:2 FTS)	-	19.0 U	-	18.0 U	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	-	9.30 U	-	9.20 U	-
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	-	9.30 U	-	9.20 U	-
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	-	9.30 U	-	9.20 U	-
Perfluorobutanesulfonic acid (PFBS)	-	<b>7.30</b>	-	<b>7.40</b>	-
Perfluorodecanoic acid (PFDA)	-	<b>0.860 J</b>	-	<b>0.850 J</b>	-
Perfluorododecanoic acid (PFDoA)	-	1.40 U	-	1.40 U	-
Perfluoroheptanoic acid (PFHpA)	-	<b>8.50</b>	-	<b>7.50</b>	-
Perfluorohexanesulfonic acid (PFHxS)	-	<b>4.50</b>	-	<b>4.40</b>	-
Perfluorohexanoic acid (PFHxA)	-	<b>17.0</b>	-	<b>16.0</b>	-
Perfluorononanoic acid (PFNA)	-	<b>1.40 J</b>	-	<b>1.40 J</b>	-
Perfluorooctanesulfonic acid (PFOS)	-	<b>8.10</b>	-	<b>8.20</b>	-
Perfluorooctanoic acid (PFOA)	-	<b>15.0</b>	-	<b>13.0</b>	-
Perfluorotetradecanoic acid (PFTA)	-	2.80 U	-	2.80 U	-
Perfluorotridecanoic acid (PFTrDA)	-	2.80 U	-	2.80 U	-
Perfluoroundecanoic acid (PFUnA)	-	1.40 U	-	1.40 U	-
<b>PFAS (ug/kg)</b>					
6:2 Fluorotelomer sulfonate (6:2 FTS)	2.90 U	-	3.10 U	-	3.30 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	1.40 U	-	1.60 U	-	1.60 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.40 U	-	<b>0.520 J</b>	-	<b>0.590 J</b>
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.40 U	-	1.60 U	-	1.60 U
Perfluorobutanesulfonic acid (PFBS)	0.260 U	-	0.280 U	-	0.290 U
Perfluorodecanoic acid (PFDA)	0.290 U	-	0.310 U	-	0.330 U
Perfluorododecanoic acid (PFDoA)	0.290 U	-	0.310 U	-	0.330 U

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

	Locations: NR-19-11 (FD)	NR-19-12	NR-19-12	NR-19-13	NR-19-13
	Field Sample ID: A3-SW-DUP-101419	NR-19-12-SE-OCT19	NR-19-12-SW-OCT19	NR-19-13-SE-OCT19	NR-19-13-SW-OCT19
	Sample Begin Depth: 0.00	0.00	0.00	0.00	0.00
	Sample End Depth: 0.00	0.50	0.00	0.50	0.00
	Sample Date: 10/14/2019	10/14/2019	10/14/2019	10/14/2019	10/14/2019
<b>Gen. Chemistry (mg/kg)</b>					
Total Organic Carbon	-	<b>62000</b>	-	<b>3000</b>	-
<b>PFAS (ng/L)</b>					
6:2 Fluorotelomer sulfonate (6:2 FTS)	19.0 U	-	18.0 U	-	18.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	9.40 U	-	9.20 U	-	9.00 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	9.40 U	-	9.20 U	-	9.00 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	9.40 U	-	9.20 U	-	9.00 U
Perfluorobutanesulfonic acid (PFBS)	<b>7.20</b>	-	<b>6.80</b>	-	<b>6.60</b>
Perfluorodecanoic acid (PFDA)	<b>0.860 J</b>	-	<b>1.00 J</b>	-	<b>1.00 J</b>
Perfluorododecanoic acid (PFDoA)	1.40 U	-	1.40 U	-	1.40 U
Perfluoroheptanoic acid (PFHpA)	<b>7.60</b>	-	<b>8.40</b>	-	<b>8.30</b>
Perfluorohexanesulfonic acid (PFHxS)	<b>4.30</b>	-	<b>4.30</b>	-	<b>6.30</b>
Perfluorohexanoic acid (PFHxA)	<b>16.0</b>	-	<b>15.0</b>	-	<b>15.0</b>
Perfluorononanoic acid (PFNA)	<b>1.30 J</b>	-	<b>1.20 J</b>	-	<b>1.60 J</b>
Perfluorooctanesulfonic acid (PFOS)	<b>7.90</b>	-	<b>8.20</b>	-	<b>10.0</b>
Perfluorooctanoic acid (PFOA)	<b>14.0</b>	-	<b>14.0</b>	-	<b>15.0</b>
Perfluorotetradecanoic acid (PFTA)	2.80 U	-	2.80 U	-	2.70 U
Perfluorotridecanoic acid (PFTrDA)	2.80 U	-	2.80 U	-	2.70 U
Perfluoroundecanoic acid (PFUnA)	1.40 U	-	1.40 U	-	1.40 U
<b>PFAS (ug/kg)</b>					
6:2 Fluorotelomer sulfonate (6:2 FTS)	-	4.50 U	-	2.40 U	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	-	2.20 U	-	1.20 U	-
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	-	<b>2.00 J</b>	-	1.20 U	-
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	-	<b>1.70 J</b>	-	1.20 U	-
Perfluorobutanesulfonic acid (PFBS)	-	0.400 U	-	0.210 U	-
Perfluorodecanoic acid (PFDA)	-	<b>0.660 J</b>	-	0.240 U	-
Perfluorododecanoic acid (PFDoA)	-	<b>0.570 J</b>	-	0.240 U	-

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

<b>Locations:</b> NR-19-14	NR-19-14
<b>Field Sample ID:</b> NR-SED-19-14-DEC19	NR-SW-19-14-DEC19
<b>Sample Begin Depth:</b> 0.00	0.00
<b>Sample End Depth:</b> 0.50	0.00
<b>Sample Date:</b> 12/18/2019	12/18/2019

<b>Gen. Chemistry (mg/kg)</b>		
Total Organic Carbon	<b>25000</b>	-

<b>PFAS (ng/L)</b>		
6:2 Fluorotelomer sulfonate (6:2 FTS)	-	17.0 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	-	8.70 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	-	8.70 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	-	8.70 U
Perfluorobutanesulfonic acid (PFBS)	-	<b>1.80</b>
Perfluorodecanoic acid (PFDA)	-	<b>0.650 J</b>
Perfluorododecanoic acid (PFDoA)	-	1.30 U
Perfluoroheptanoic acid (PFHpA)	-	<b>5.00</b>
Perfluorohexanesulfonic acid (PFHxS)	-	<b>1.20 J</b>
Perfluorohexanoic acid (PFHxA)	-	<b>8.10</b>
Perfluorononanoic acid (PFNA)	-	<b>1.40 J</b>
Perfluorooctanesulfonic acid (PFOS)	-	<b>6.10</b>
Perfluorooctanoic acid (PFOA)	-	<b>10.0</b>
Perfluorotetradecanoic acid (PFTA)	-	2.60 U
Perfluorotridecanoic acid (PFTrDA)	-	2.60 U
Perfluoroundecanoic acid (PFUnA)	-	1.30 U

<b>PFAS (ug/kg)</b>		
6:2 Fluorotelomer sulfonate (6:2 FTS)	3.30 U	-
8:2 Fluorotelomer sulfonate (8:2 FTS)	1.70 U	-
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<b>0.760 J</b>	-
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<b>1.00 J</b>	-
Perfluorobutanesulfonic acid (PFBS)	0.300 U	-
Perfluorodecanoic acid (PFDA)	<b>0.210 J</b>	-
Perfluorododecanoic acid (PFDoA)	<b>0.300 J</b>	-

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

	Locations: NR-19-01	NR-19-01	NR-19-02	NR-19-02	NR-19-02 (FD)
<b>Field Sample ID:</b>	NR-19-01-SE-OCT19	NR-19-01-SW-OCT19	NR-19-02-SE-OCT19	NR-19-02-SW-OCT19	A3-SE-DUP-101619
<b>Sample Begin Depth:</b>	0.00	0.00	0.00	0.00	0.00
<b>Sample End Depth:</b>	0.50	0.00	0.50	0.00	0.50
<b>Sample Date:</b>	10/17/2019	10/17/2019	10/16/2019	10/16/2019	10/16/2019
Perfluoroheptanoic acid (PFHpA)	0.650 U	-	0.320 U	-	0.330 U
Perfluorohexanesulfonic acid (PFHxS)	0.650 U	-	<b>0.150 J</b>	-	<b>0.200 J</b>
Perfluorohexanoic acid (PFHxA)	0.650 U	-	<b>0.140 J</b>	-	<b>0.160 J</b>
Perfluorononanoic acid (PFNA)	0.650 U	-	0.320 U	-	0.330 U
Perfluorooctanesulfonic acid (PFOS)	<b>4.20</b>	-	<b>1.80</b>	-	<b>2.10</b>
Perfluorooctanoic acid (PFOA)	<b>0.590 J</b>	-	<b>0.330 J</b>	-	<b>0.400 J</b>
Perfluorotetradecanoic acid (PFTA)	<b>0.370 J</b>	-	0.490 U	-	0.500 U
Perfluorotridecanoic acid (PFTrDA)	<b>0.380 J</b>	-	0.320 U	-	0.330 U
Perfluoroundecanoic acid (PFUnA)	<b>2.20</b>	-	0.320 U	-	0.330 U

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

	Locations: NR-19-02 (FD)	NR-19-03	NR-19-03	NR-19-04	NR-19-04
<b>Field Sample ID:</b>	A3-SW-DUP-101619	NR-19-03-SE-OCT19	NR-19-03-SW-OCT19	NR-19-04-SE-OCT19	NR-19-04-SW-OCT19
<b>Sample Begin Depth:</b>	0.00	0.00	0.00	0.00	0.00
<b>Sample End Depth:</b>	0.00	0.50	0.00	0.50	0.00
<b>Sample Date:</b>	10/16/2019	10/16/2019	10/16/2019	10/16/2019	10/16/2019
Perfluoroheptanoic acid (PFHpA)	-	0.510 U	-	0.330 U	-
Perfluorohexanesulfonic acid (PFHxS)	-	<b>0.290 J</b>	-	<b>0.120 J</b>	-
Perfluorohexanoic acid (PFHxA)	-	<b>0.330 J</b>	-	<b>0.150 J</b>	-
Perfluorononanoic acid (PFNA)	-	0.510 U	-	<b>0.160 J</b>	-
Perfluorooctanesulfonic acid (PFOS)	-	<b>1.30 J</b>	-	<b>2.90</b>	-
Perfluorooctanoic acid (PFOA)	-	<b>0.360 J</b>	-	<b>0.360 J</b>	-
Perfluorotetradecanoic acid (PFTA)	-	0.770 U	-	0.500 U	-
Perfluorotridecanoic acid (PFTrDA)	-	0.510 U	-	0.330 U	-
Perfluoroundecanoic acid (PFUnA)	-	0.510 U	-	0.330 U	-

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

	Locations: NR-19-05	NR-19-05	NR-19-06	NR-19-06	NR-19-07
	Field Sample ID: NR-19-05-SE-OCT19	NR-19-05-SW-OCT19	NR-19-06-SE-OCT19	NR-19-06-SW-OCT19	NR-19-07-SE-OCT19
	Sample Begin Depth: 0.00	0.00	0.00	0.00	0.00
	Sample End Depth: 0.50	0.00	0.50	0.00	0.50
	Sample Date: 10/16/2019	10/16/2019	10/15/2019	10/15/2019	10/15/2019
Perfluoroheptanoic acid (PFHpA)	0.440 U	-	0.240 U	-	0.320 U
Perfluorohexanesulfonic acid (PFHxS)	<b>0.770 J</b>	-	0.240 U	-	<b>0.270 J</b>
Perfluorohexanoic acid (PFHxA)	0.440 U	-	0.240 U	-	<b>0.110 J</b>
Perfluorononanoic acid (PFNA)	0.440 U	-	0.240 U	-	0.320 U
Perfluorooctanesulfonic acid (PFOS)	<b>1.80 J</b>	-	<b>0.930 J</b>	-	<b>2.10</b>
Perfluorooctanoic acid (PFOA)	0.440 U	-	0.240 U	-	0.320 U
Perfluorotetradecanoic acid (PFTA)	0.670 U	-	0.360 U	-	0.480 U
Perfluorotridecanoic acid (PFTrDA)	<b>0.270 J</b>	-	0.240 U	-	0.320 U
Perfluoroundecanoic acid (PFUnA)	0.440 U	-	0.240 U	-	0.320 U

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

	Locations: NR-19-07	NR-19-08	NR-19-08	NR-19-09	NR-19-09
	Field Sample ID: NR-19-07-SW-OCT19	NR-19-08-SE-OCT19	NR-19-08-SW-OCT19	NR-19-09-SE-OCT19	NR-19-09-SW-OCT19
	Sample Begin Depth: 0.00	0.00	0.00	0.00	0.00
	Sample End Depth: 0.00	0.50	0.00	0.50	0.00
	Sample Date: 10/15/2019	10/15/2019	10/15/2019	10/15/2019	10/15/2019
Perfluoroheptanoic acid (PFHpA)	-	0.350 U	-	0.270 U	-
Perfluorohexanesulfonic acid (PFHxS)	-	<b>1.50</b>	-	<b>0.0970 J</b>	-
Perfluorohexanoic acid (PFHxA)	-	<b>0.200 J</b>	-	0.270 U	-
Perfluorononanoic acid (PFNA)	-	0.350 U	-	0.270 U	-
Perfluorooctanesulfonic acid (PFOS)	-	<b>2.10</b>	-	<b>0.700 J</b>	-
Perfluorooctanoic acid (PFOA)	-	<b>0.570</b>	-	0.270 U	-
Perfluorotetradecanoic acid (PFTA)	-	0.520 U	-	0.400 U	-
Perfluorotridecanoic acid (PFTrDA)	-	0.350 U	-	0.270 U	-
Perfluoroundecanoic acid (PFUnA)	-	0.350 U	-	0.270 U	-



**Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020**

	Locations: NR-19-10	NR-19-10	NR-19-11	NR-19-11	NR-19-11 (FD)
<b>Field Sample ID:</b>	NR-19-10-SE-OCT19	NR-19-10-SW-OCT19	NR-19-11-SE-OCT19	NR-19-11-SW-OCT19	A3-SE-DUP-101419
<b>Sample Begin Depth:</b>	0.00	0.00	0.00	0.00	0.00
<b>Sample End Depth:</b>	0.50	0.00	0.50	0.00	0.50
<b>Sample Date:</b>	10/15/2019	10/15/2019	10/14/2019	10/14/2019	10/14/2019
Perfluoroheptanoic acid (PFHpA)	0.290 U	-	0.310 U	-	0.330 U
Perfluorohexanesulfonic acid (PFHxS)	<b>0.170 J</b>	-	<b>0.390 J</b>	-	<b>0.300 J</b>
Perfluorohexanoic acid (PFHxA)	<b>0.320 J</b>	-	0.310 U	-	0.330 U
Perfluorononanoic acid (PFNA)	0.290 U	-	0.310 U	-	0.330 U
Perfluorooctanesulfonic acid (PFOS)	<b>0.720 J</b>	-	<b>1.20 J</b>	-	<b>1.20 J</b>
Perfluorooctanoic acid (PFOA)	<b>0.140 J</b>	-	0.310 U	-	0.330 U
Perfluorotetradecanoic acid (PFTA)	0.430 U	-	0.470 U	-	0.490 U
Perfluorotridecanoic acid (PFTrDA)	0.290 U	-	0.310 U	-	0.330 U
Perfluoroundecanoic acid (PFUnA)	0.290 U	-	0.310 U	-	0.330 U

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

	Locations: NR-19-11 (FD)	NR-19-12	NR-19-12	NR-19-13	NR-19-13
	Field Sample ID: A3-SW-DUP-101419	NR-19-12-SE-OCT19	NR-19-12-SW-OCT19	NR-19-13-SE-OCT19	NR-19-13-SW-OCT19
	Sample Begin Depth: 0.00	0.00	0.00	0.00	0.00
	Sample End Depth: 0.00	0.50	0.00	0.50	0.00
	Sample Date: 10/14/2019	10/14/2019	10/14/2019	10/14/2019	10/14/2019
Perfluoroheptanoic acid (PFHpA)	-	0.450 U	-	0.240 U	-
Perfluorohexanesulfonic acid (PFHxS)	-	<b>0.390 J</b>	-	0.240 U	-
Perfluorohexanoic acid (PFHxA)	-	0.450 U	-	0.240 U	-
Perfluorononanoic acid (PFNA)	-	0.450 U	-	0.240 U	-
Perfluorooctanesulfonic acid (PFOS)	-	<b>5.20</b>	-	1.20 U	-
Perfluorooctanoic acid (PFOA)	-	<b>0.340 J</b>	-	0.240 U	-
Perfluorotetradecanoic acid (PFTA)	-	<b>0.250 J</b>	-	0.350 U	-
Perfluorotridecanoic acid (PFTrDA)	-	<b>0.320 J</b>	-	0.240 U	-
Perfluoroundecanoic acid (PFUnA)	-	<b>0.590 J</b>	-	0.240 U	-

**Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020**

<b>Locations:</b>	NR-19-14	NR-19-14
<b>Field Sample ID:</b>	NR-SED-19-14-DEC19	NR-SW-19-14-DEC19
<b>Sample Begin Depth:</b>	0.00	0.00
<b>Sample End Depth:</b>	0.50	0.00
<b>Sample Date:</b>	12/18/2019	12/18/2019
Perfluoroheptanoic acid (PFHpA)	0.330 U	-
Perfluorohexanesulfonic acid (PFHxS)	0.500 U	-
Perfluorohexanoic acid (PFHxA)	0.330 U	-
Perfluorononanoic acid (PFNA)	0.330 U	-
Perfluorooctanesulfonic acid (PFOS)	<b>1.60 J</b>	-
Perfluorooctanoic acid (PFOA)	<b>0.170 J</b>	-
Perfluorotetradecanoic acid (PFTA)	0.500 U	-
Perfluorotridecanoic acid (PFTrDA)	<b>0.300 J</b>	-
Perfluoroundecanoic acid (PFUnA)	<b>0.440 J</b>	-

## Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 9/24/2018 and 5/31/2020

Detects are displayed in bold font

---

### Data Qualifier Definitions

---

J: The analyte was positively identified, but the associated numerical value is estimated and represents the approximate concentration of the analyte in the sample.  
U: The analyte was not detected above the reported sample quantitation limit.  
UJ: The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate.

### Units

---

MG/KG = milligrams per kilogram  
NG/L = nanograms per liter  
PERCENT = percent  
PPT = parts per thousand  
UG/KG = microgram per kilogram  
UG/L = microgram per liter