

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

KOMAN, PFAS RI, Soil Boring Samples-Area 3

AOX 20, Waste Water Treatment Plant Sand Filter Beds

	Locations: 20SB-19-01	20SB-19-01	20SB-19-01	20SB-19-01	20SB-19-02
Field Sample ID:	20SB-19-01-0.5-3	20SB-19-01-0-0.5	20SB-19-01-3-7	20SB-19-01-7-15	20SB-19-02-0.5-3
Sample Begin Depth:	0.50	0.00	3.00	7.00	0.50
Sample End Depth:	3.00	0.50	7.00	15.00	3.00
Sample Date:	10/18/2019	10/18/2019	10/18/2019	10/18/2019	10/22/2019
PFAS (ug/kg)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	2.00 U	2.00 U	2.00 U	2.00 U	2.20 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	0.980 U	1.00 U	0.980 U	1.00 U	1.10 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.800 J	4.50 J	0.980 U	1.00 U	0.330 J
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.40	8.90	0.480 J	0.340 J	0.570 J
Perfluorobutanesulfonic acid (PFBS)	0.180 U	0.180 U	0.180 U	0.180 U	0.200 U
Perfluorodecanoic acid (PFDA)	0.200 U	0.350	0.200 U	0.200 U	0.220 U
Perfluorododecanoic acid (PFDoA)	0.200 J	1.30	0.110 J	0.200 U	0.220 U
Perfluoroheptanoic acid (PFHpA)	0.200 U	0.200 U	0.200 U	0.200 U	0.220 U
Perfluorohexanesulfonic acid (PFHxS)	0.100 J	0.470	0.0730 J	0.200 U	0.220 U
Perfluorohexanoic acid (PFHxA)	0.200 U	0.170 J	0.200 U	0.200 U	0.220 U
Perfluorononanoic acid (PFNA)	0.200 U	0.110 J	0.200 U	0.200 U	0.220 U
Perfluorooctanesulfonic acid (PFOS)	1.10	6.00 J	0.570 J	0.490 J	0.550 U
Perfluorooctanoic acid (PFOA)	0.200 U	0.300	0.200 U	0.200 U	0.220 U
Perfluorotetradecanoic acid (PFTA)	0.300 U	0.700	0.290 U	0.300 U	0.330 U
Perfluorotridecanoic acid (PFTrDA)	0.200 U	0.420	0.200 U	0.200 U	0.220 U
Perfluoroundecanoic acid (PFUnA)	0.200 U	0.420	0.200 U	0.200 U	0.220 U

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	Locations: 20SB-19-02	20SB-19-02	20SB-19-02	20SB-19-02	20SB-19-03
Field Sample ID:	20SB-19-02-0-0.5	20SB-19-02-3-7	20SB-19-02-52-54	20SB-19-02-7-15	20SB-19-03-0.5-3
Sample Begin Depth:	0.00	3.00	52.00	7.00	0.50
Sample End Depth:	0.50	7.00	54.00	15.00	3.00
Sample Date:	10/22/2019	10/22/2019	10/22/2019	10/22/2019	10/18/2019
PFAS (ug/kg)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	2.00 U	2.20 U	2.10 U	2.30 U	2.10 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	1.00 U	1.10 U	1.00 U	1.20 U	1.00 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.570 J	1.10 U	1.00 U	1.20 U	0.560 J
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.30 J	0.450 J	1.00 U	1.20 U	0.620 J
Perfluorobutanesulfonic acid (PFBS)	0.180 U	0.200 U	0.190 U	0.210 U	0.180 U
Perfluorodecanoic acid (PFDA)	0.200 U	0.220 U	0.210 U	0.230 U	0.210 U
Perfluorododecanoic acid (PFDoA)	0.160 J	0.220 U	0.210 U	0.230 U	0.160 J
Perfluoroheptanoic acid (PFHpA)	0.200 U	0.220 U	0.210 U	0.230 U	0.210 U
Perfluorohexanesulfonic acid (PFHxS)	0.200 U	0.220 U	0.210 U	0.230 U	0.210 U
Perfluorohexanoic acid (PFHxA)	0.200 U	0.220 U	0.210 U	0.230 U	0.210 U
Perfluorononanoic acid (PFNA)	0.200 U	0.220 U	0.210 U	0.230 U	0.210 U
Perfluorooctanesulfonic acid (PFOS)	0.990 J	0.330 J	0.520 U	0.580 U	1.00
Perfluorooctanoic acid (PFOA)	0.200 U	0.220 U	0.210 U	0.230 U	0.210 U
Perfluorotetradecanoic acid (PFTA)	0.110 J	0.330 U	0.310 U	0.350 U	0.310 U
Perfluorotridecanoic acid (PFTrDA)	0.200 U	0.220 U	0.210 U	0.230 U	0.210 U
Perfluoroundecanoic acid (PFUnA)	0.200 U	0.220 U	0.210 U	0.230 U	0.210 U

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	Locations: 20SB-19-03	20SB-19-03	20SB-19-03	20SB-19-04	20SB-19-04
Field Sample ID:	20SB-19-03-0-0.5	20SB-19-03-3-7	20SB-19-03-7-15	20SB-19-04-0.5-3	20SB-19-04-0-0.5
Sample Begin Depth:	0.00	3.00	7.00	0.50	0.00
Sample End Depth:	0.50	7.00	15.00	3.00	0.50
Sample Date:	10/18/2019	10/18/2019	10/18/2019	10/18/2019	10/18/2019
PFAS (ug/kg)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	2.10 U	2.00 U	2.00 U	2.00 U	1.90 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	1.00 U	1.00 U	0.990 U	0.990 U	0.970 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.40 J	1.00 U	0.990 U	0.480 J	1.80 J
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	3.90	0.300 J	0.990 U	0.990 J	1.80 J
Perfluorobutanesulfonic acid (PFBS)	0.190 U	0.180 U	0.180 U	0.180 U	0.170 U
Perfluorodecanoic acid (PFDA)	0.150 J	0.200 U	0.200 U	0.200 U	0.0950 J
Perfluorododecanoic acid (PFDoA)	0.530	0.200 U	0.200 U	0.110 J	0.480
Perfluoroheptanoic acid (PFHpA)	0.210 U	0.200 U	0.200 U	0.200 U	0.190 U
Perfluorohexanesulfonic acid (PFHxS)	0.150 J	0.200 U	0.200 U	0.120 J	0.170 J
Perfluorohexanoic acid (PFHxA)	0.210 U	0.200 U	0.200 U	0.200 U	0.190 U
Perfluorononanoic acid (PFNA)	0.210 U	0.200 U	0.200 U	0.200 U	0.190 U
Perfluorooctanesulfonic acid (PFOS)	2.50	0.540 J	0.540 J	0.720 J	1.60
Perfluorooctanoic acid (PFOA)	0.190 J	0.200 U	0.200 U	0.200 U	0.100 J
Perfluorotetradecanoic acid (PFTA)	0.360 J	0.300 U	0.300 U	0.300 U	0.210 J
Perfluorotridecanoic acid (PFTrDA)	0.210 J	0.200 U	0.200 U	0.200 U	0.130 J
Perfluoroundecanoic acid (PFUnA)	0.130 J	0.200 U	0.200 U	0.200 U	0.180 J

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	Locations: 20SB-19-04	20SB-19-04	20SB-19-04 (FD)	20SB-19-05	20SB-19-05
Field Sample ID:	20SB-19-04-3-7	20SB-19-04-7-15	A3-SB-DUP01-101819	20SB-19-05-0.5-3	20SB-19-05-0-0.5
Sample Begin Depth:	3.00	7.00	7.00	0.50	0.00
Sample End Depth:	7.00	15.00	15.00	3.00	0.50
Sample Date:	10/18/2019	10/18/2019	10/18/2019	10/18/2019	10/18/2019
PFAS (ug/kg)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	2.00 U	2.30 U	2.00 U	2.00 U	1.90 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	1.00 U	1.20 U	1.00 U	1.00 U	0.970 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.00 U	1.20 U	1.00 U	0.360 J	0.590 J
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.310 J	1.20 U	1.00 U	1.60 J	2.40
Perfluorobutanesulfonic acid (PFBS)	0.180 U	0.210 U	0.180 U	0.180 U	0.170 U
Perfluorodecanoic acid (PFDA)	0.200 U	0.230 U	0.200 U	0.200 U	0.0860 J
Perfluorododecanoic acid (PFDoA)	0.200 U	0.230 U	0.200 U	0.200 U	0.160 J
Perfluoroheptanoic acid (PFHpA)	0.200 U	0.230 U	0.200 U	0.200 U	0.190 U
Perfluorohexanesulfonic acid (PFHxS)	0.0670 J	0.230 U	0.200 U	0.110 J	0.100 J
Perfluorohexanoic acid (PFHxA)	0.200 U	0.230 U	0.200 U	0.200 U	0.190 U
Perfluorononanoic acid (PFNA)	0.200 U	0.230 U	0.200 U	0.200 U	0.190 U
Perfluorooctanesulfonic acid (PFOS)	0.500 J	0.380 J	0.420 J	0.970 J	1.60
Perfluorooctanoic acid (PFOA)	0.200 U	0.230 U	0.200 U	0.200 U	0.110 J
Perfluorotetradecanoic acid (PFTA)	0.300 U	0.350 U	0.300 U	0.110 J	0.150 J
Perfluorotridecanoic acid (PFTrDA)	0.200 U	0.230 U	0.200 U	0.200 U	0.190 U
Perfluoroundecanoic acid (PFUnA)	0.200 U	0.230 U	0.200 U	0.200 U	0.190 U

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	Locations: 20SB-19-05	20SB-19-05	20SB-19-06	20SB-19-06	20SB-19-06
Field Sample ID:	20SB-19-05-3-7	20SB-19-05-7-15	20SB-19-06-0.5-3	20SB-19-06-0-0.5	20SB-19-06-3-7
Sample Begin Depth:	3.00	7.00	0.50	0.00	3.00
Sample End Depth:	7.00	15.00	3.00	0.50	7.00
Sample Date:	10/18/2019	10/18/2019	10/21/2019	10/21/2019	10/21/2019
PFAS (ug/kg)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	2.10 U	2.10 U	2.00 U	2.10 U	2.00 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	1.00 U	1.00 U	1.00 U	1.10 U	0.980 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.00 U	1.00 U	0.430 J	0.510 J	0.980 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.820 J	0.550 J	0.620 J	0.900 J	0.360 J
Perfluorobutanesulfonic acid (PFBS)	0.190 U	0.190 U	0.180 U	0.190 U	0.180 U
Perfluorodecanoic acid (PFDA)	0.210 U	0.210 U	0.200 U	0.210 U	0.200 U
Perfluorododecanoic acid (PFDoA)	0.210 U	0.140 J	0.200 U	0.210 U	0.200 U
Perfluoroheptanoic acid (PFHpA)	0.210 U	0.210 U	0.200 U	0.210 U	0.200 U
Perfluorohexanesulfonic acid (PFHxS)	0.0780 J	0.210 U	0.200 U	0.210 U	0.200 U
Perfluorohexanoic acid (PFHxA)	0.210 U	0.210 U	0.200 U	0.210 U	0.200 U
Perfluorononanoic acid (PFNA)	0.210 U	0.210 U	0.200 U	0.210 U	0.200 U
Perfluorooctanesulfonic acid (PFOS)	0.510 J	0.450 J	0.460 J	0.430 J	0.240 J
Perfluorooctanoic acid (PFOA)	0.210 U	0.210 U	0.200 U	0.210 U	0.200 U
Perfluorotetradecanoic acid (PFTA)	0.310 U	0.310 U	0.300 U	0.320 U	0.290 U
Perfluorotridecanoic acid (PFTrDA)	0.210 U	0.210 U	0.200 U	0.210 U	0.200 U
Perfluoroundecanoic acid (PFUnA)	0.210 U	0.210 U	0.200 U	0.210 U	0.200 U

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	Locations: 20SB-19-06	20SB-19-06	20SB-19-07	20SB-19-07	20SB-19-07
Field Sample ID:	20SB-19-06-52-54	20SB-19-06-7-15	20SB-19-07-0.5-3	20SB-19-07-0-0.5	20SB-19-07-3-7
Sample Begin Depth:	52.00	7.00	0.50	0.00	3.00
Sample End Depth:	54.00	15.00	3.00	0.50	7.00
Sample Date:	10/21/2019	10/21/2019	10/22/2019	10/22/2019	10/22/2019
PFAS (ug/kg)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	2.00 U	2.00 U	2.30 U	2.40 U	2.20 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	1.00 U	1.00 U	1.20 U	1.20 U	1.10 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.00 U	1.00 U	1.20 U	1.20 U	1.10 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.00 U	1.00 U	1.20 U	1.20 U	0.570 J
Perfluorobutanesulfonic acid (PFBS)	0.180 U	0.180 U	0.210 U	0.220 U	0.200 U
Perfluorodecanoic acid (PFDA)	0.200 U	0.200 U	0.230 U	0.240 U	0.220 U
Perfluorododecanoic acid (PFDoA)	0.200 U	0.200 U	0.230 U	0.150 J	0.220 U
Perfluoroheptanoic acid (PFHpA)	0.200 U	0.200 U	0.230 U	0.240 U	0.220 U
Perfluorohexanesulfonic acid (PFHxS)	0.200 U	0.200 U	0.230 U	0.240 U	0.0890 J
Perfluorohexanoic acid (PFHxA)	0.200 U	0.200 U	0.230 U	0.240 U	0.220 U
Perfluorononanoic acid (PFNA)	0.200 U	0.200 U	0.230 U	0.240 U	0.220 U
Perfluorooctanesulfonic acid (PFOS)	0.590 J	0.310 J	0.280 J	0.400 J	0.380 J
Perfluorooctanoic acid (PFOA)	0.200 U	0.200 U	0.230 U	0.240 U	0.220 U
Perfluorotetradecanoic acid (PFTA)	0.300 U	0.300 U	0.350 U	0.140 J	0.340 U
Perfluorotridecanoic acid (PFTrDA)	0.200 U	0.200 U	0.230 U	0.240 U	0.220 U
Perfluoroundecanoic acid (PFUnA)	0.200 U	0.200 U	0.230 U	0.240 U	0.220 U

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	Locations: 20SB-19-07	20SB-19-07 (FD)	20SB-19-08	20SB-19-08	20SB-19-08
Field Sample ID:	20SB-19-07-7-15	A3-SB-DUP01-102219	20SB-19-08-0.5-3	20SB-19-08-0-0.5	20SB-19-08-3-7
Sample Begin Depth:	7.00	3.00	0.50	0.00	3.00
Sample End Depth:	15.00	7.00	3.00	0.50	7.00
Sample Date:	10/22/2019	10/22/2019	10/21/2019	10/21/2019	10/21/2019
PFAS (ug/kg)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	2.00 U	2.00 U	2.10 U	2.00 U	2.40 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	1.00 U	1.00 U	1.00 U	1.00 U	1.20 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.00 U	1.00 U	1.00 U	1.20 J	1.20 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.00 U	0.490 J	1.00 U	3.00	1.20 U
Perfluorobutanesulfonic acid (PFBS)	0.180 U	0.180 U	0.190 U	0.180 U	0.210 U
Perfluorodecanoic acid (PFDA)	0.200 U	0.200 U	0.210 U	0.880	0.240 U
Perfluorododecanoic acid (PFDoA)	0.200 U	0.200 U	0.210 U	0.430	0.240 U
Perfluoroheptanoic acid (PFHpA)	0.200 U	0.200 U	0.210 U	0.200 U	0.320 J
Perfluorohexanesulfonic acid (PFHxS)	0.0670 J	0.0700 J	0.210 U	0.230 J	0.400
Perfluorohexanoic acid (PFHxA)	0.200 U	0.200 U	0.210 U	0.200 U	0.210 J
Perfluorononanoic acid (PFNA)	0.200 U	0.200 U	0.290 J	0.170 J	0.190 J
Perfluorooctanesulfonic acid (PFOS)	0.310 J	0.340 J	6.20	13.0	2.50
Perfluorooctanoic acid (PFOA)	0.200 U	0.200 U	0.160 J	0.270 J	1.80
Perfluorotetradecanoic acid (PFTA)	0.310 U	0.300 U	0.310 U	0.170 J	0.350 U
Perfluorotridecanoic acid (PFTrDA)	0.200 U	0.200 U	0.210 U	0.200 U	0.240 U
Perfluoroundecanoic acid (PFUnA)	0.200 U	0.200 U	0.210 U	0.260 J	0.240 U

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	Locations: 20SB-19-08	20SB-19-08	20SB-19-08 (FD)
Field Sample ID:	20SB-19-08-62-64	20SB-19-08-7-15	A3-SB-DUP01-102119
Sample Begin Depth:	62.00	7.00	7.00
Sample End Depth:	64.00	15.00	15.00
Sample Date:	10/21/2019	10/21/2019	10/21/2019
PFAS (ug/kg)			
6:2 Fluorotelomer sulfonate (6:2 FTS)	1.90 U	2.50 U	2.00 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	0.970 U	1.20 U	1.00 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.970 U	1.20 U	1.00 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.970 U	1.20 U	0.370 J
Perfluorobutanesulfonic acid (PFBS)	0.170 U	0.220 U	0.180 U
Perfluorodecanoic acid (PFDA)	0.190 U	0.250 U	0.200 U
Perfluorododecanoic acid (PFDoA)	0.190 U	0.250 U	0.200 U
Perfluoroheptanoic acid (PFHpA)	0.190 U	0.250 U	0.200 U
Perfluorohexanesulfonic acid (PFHxS)	0.190 U	0.130 J	0.130 J
Perfluorohexanoic acid (PFHxA)	0.190 U	0.250 U	0.200 U
Perfluorononanoic acid (PFNA)	0.190 U	0.250 U	0.200 U
Perfluorooctanesulfonic acid (PFOS)	0.480 U	1.80	2.50
Perfluorooctanoic acid (PFOA)	0.190 U	0.300 J	0.340
Perfluorotetradecanoic acid (PFTA)	0.290 U	0.370 U	0.310 U
Perfluorotridecanoic acid (PFTrDA)	0.190 U	0.250 U	0.200 U
Perfluoroundecanoic acid (PFUnA)	0.190 U	0.250 U	0.200 U

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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