

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 1

AOC 74, Barnum Road Firefighting Exercise Site

	Locations: 74SB-19-01	74SB-19-01	74SB-19-01	74SB-19-01	74SB-19-01
Field Sample ID:	74SB-19-01-0.5-3	74SB-19-01-0-0.5	74SB-19-01-12-14	74SB-19-01-3-7	74SB-19-01-7-12
Sample Begin Depth:	0.50	0.00	12.00	3.00	7.00
Sample End Depth:	3.00	0.50	14.00	7.00	12.00
Sample Date:	01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
PFAS (ug/kg)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	2.10 U	2.30 U	2.30 U	2.20 J	1.30 J
8:2 Fluorotelomer sulfonate (8:2 FTS)	0.680 J	0.890 J	1.10 U	3.80 J	1.00 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.480 J	1.20 J	1.10 U	1.10 U	1.00 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.10 U	1.10 U	1.10 U	1.10 U	1.00 U
Perfluorobutanesulfonic acid (PFBS)	0.190 U	0.200 U	0.200 U	0.190 U	0.190 U
Perfluorodecanoic acid (PFDA)	1.90	1.30	0.230 U	3.20 J	0.170 J
Perfluorododecanoic acid (PFDoA)	0.150 J	0.520	0.230 U	0.220 U	0.210 U
Perfluoroheptanoic acid (PFHpA)	0.390	0.260 J	1.20	1.30	2.30
Perfluorohexanesulfonic acid (PFHxS)	0.210 U	0.230 U	0.230 U	0.220 U	0.210 U
Perfluorohexanoic acid (PFHxA)	0.180 J	0.170 J	0.340	0.520	0.330
Perfluorononanoic acid (PFNA)	2.10	0.390	0.230 U	2.80 J	0.240 J
Perfluorooctanesulfonic acid (PFOS)	1.90	0.560 U	0.570 U	0.990 J	0.510 U
Perfluorooctanoic acid (PFOA)	0.550	0.270 J	0.730	3.30 J	2.50
Perfluorotetradecanoic acid (PFTA)	0.320 U	0.340 U	0.340 U	0.320 U	0.310 U
Perfluorotridecanoic acid (PFTrDA)	0.210 U	0.160 J	0.230 U	0.220 U	0.210 U
Perfluoroundecanoic acid (PFUnA)	0.280 J	1.40	0.230 U	0.170 J	0.210 U

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	Locations: 74SB-19-01 (FD)	74SB-19-02	74SB-19-02	74SB-19-02	74SB-19-02
Field Sample ID:	74SB-DUP-19-7-12	74SB-19-02-0.5-3	74SB-19-02-0-0.5	74SB-19-02-12-14	74SB-19-02-3-7
Sample Begin Depth:	7.00	0.50	0.00	12.00	3.00
Sample End Depth:	12.00	3.00	0.50	14.00	7.00
Sample Date:	01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
PFAS (ug/kg)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	1.40 J	2.10 U	2.10 U	2.20 U	2.20 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	1.00 U	1.00 U	0.360 J	1.10 U	1.10 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NETFOSAA)	1.00 U	1.00 U	0.330 J	1.10 U	1.10 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.00 U	1.00 U	1.10 U	1.10 U	1.10 U
Perfluorobutanesulfonic acid (PFBS)	0.190 U	0.190 U	0.190 U	0.200 U	0.200 U
Perfluorodecanoic acid (PFDA)	0.210 U	0.220 J	1.60	0.220 U	0.220 U
Perfluorododecanoic acid (PFDoA)	0.210 U	0.210 U	0.320	0.220 U	0.220 U
Perfluoroheptanoic acid (PFHpA)	2.40	0.220 J	0.240 J	0.930	0.510
Perfluorohexanesulfonic acid (PFHxS)	0.210 U	0.210 U	0.0860 J	0.220 U	0.220 U
Perfluorohexanoic acid (PFHxA)	0.400	0.110 J	0.200 J	0.210 J	0.210 J
Perfluorononanoic acid (PFNA)	0.170 J	0.620	0.530	0.220 U	0.120 J
Perfluorooctanesulfonic acid (PFOS)	0.520 U	0.520 U	0.440 J	0.560 U	0.540 U
Perfluorooctanoic acid (PFOA)	2.30	0.270 J	0.540	0.220 U	0.460
Perfluorotetradecanoic acid (PFTA)	0.310 U	0.310 U	0.320 U	0.340 U	0.330 U
Perfluorotridecanoic acid (PFTrDA)	0.210 U	0.210 U	0.210 U	0.220 U	0.220 U
Perfluoroundecanoic acid (PFUnA)	0.210 U	0.210 U	0.850	0.220 U	0.220 U

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	Locations: 74SB-19-02	74SB-19-03	74SB-19-03	74SB-19-03	74SB-19-03
Field Sample ID:	74SB-19-02-7-12	74SB-19-03-0.5-3	74SB-19-03-0-0.5	74SB-19-03-11-13	74SB-19-03-3-7
Sample Begin Depth:	7.00	0.50	0.00	11.00	3.00
Sample End Depth:	12.00	3.00	0.50	13.00	7.00
Sample Date:	01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
PFAS (ug/kg)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	2.20 U	2.10 U	2.40 U	2.20 U	2.10 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	1.10 U	1.10 U	1.20 U	1.10 U	1.00 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.10 U	4.60	12.0	0.400 J	0.440 J
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.10 U	1.10 U	1.20 U	1.10 U	1.00 U
Perfluorobutanesulfonic acid (PFBS)	0.200 U	0.190 U	0.210 U	0.200 U	0.190 U
Perfluorodecanoic acid (PFDA)	0.220 U	11.0	2.80	1.70	2.50 J
Perfluorododecanoic acid (PFDoA)	0.220 U	0.180 J	6.20	0.220 U	0.210 U
Perfluoroheptanoic acid (PFHpA)	0.560	0.210 U	0.250 J	0.730	0.190 J
Perfluorohexanesulfonic acid (PFHxS)	0.220 U	0.210 U	0.240 U	0.220 U	0.210 U
Perfluorohexanoic acid (PFHxA)	0.200 J	0.210 U	0.320 J	0.140 J	0.210 U
Perfluorononanoic acid (PFNA)	0.110 J	0.610	0.360	0.340	0.790
Perfluorooctanesulfonic acid (PFOS)	0.560 U	9.30	3.90	2.60	5.00
Perfluorooctanoic acid (PFOA)	0.200 J	0.150 J	0.570	5.40 J	0.600
Perfluorotetradecanoic acid (PFTA)	0.330 U	0.320 U	1.90	0.340 U	0.310 U
Perfluorotridecanoic acid (PFTrDA)	0.220 U	0.210 U	1.50	0.220 U	0.210 U
Perfluoroundecanoic acid (PFUnA)	0.220 U	0.360	2.50	0.220 U	0.210 U

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	Locations: 74SB-19-03	74SB-19-03 (FD)	74SB-19-04	74SB-19-04	74SB-19-04
Field Sample ID:	74SB-19-03-7-11	74SB-DUP-19-3-7	74SB-19-04-0.5-3	74SB-19-04-0-0.5	74SB-19-04-11-13
Sample Begin Depth:	7.00	3.00	0.50	0.00	11.00
Sample End Depth:	11.00	7.00	3.00	0.50	13.00
Sample Date:	01/03/2019	01/03/2019	01/04/2019	01/04/2019	01/04/2019
PFAS (ug/kg)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	2.20 U	2.00 U	2.10 U	2.20 U	2.10 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	1.10 U	1.00 U	1.00 U	1.10 U	1.10 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.10 U	0.450 J	1.00 U	1.10 U	1.10 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.10 U	1.00 U	1.00 U	1.10 U	1.10 U
Perfluorobutanesulfonic acid (PFBS)	0.200 U	0.180 U	0.190 U	0.200 U	0.190 U
Perfluorodecanoic acid (PFDA)	0.240 J	1.60 J	0.210 U	0.220 U	0.210 U
Perfluorododecanoic acid (PFDoA)	0.220 U	0.200 U	0.210 U	0.220 U	0.210 U
Perfluoroheptanoic acid (PFHpA)	1.30	0.130 J	0.210 U	0.220 U	0.210 U
Perfluorohexanesulfonic acid (PFHxS)	0.220 U	0.200 U	0.210 U	0.220 U	0.210 U
Perfluorohexanoic acid (PFHxA)	0.150 J	0.200 U	0.210 U	0.220 U	0.210 U
Perfluorononanoic acid (PFNA)	1.40	0.440	0.210 U	0.220 U	0.210 U
Perfluorooctanesulfonic acid (PFOS)	3.60	3.00	0.510 U	0.540 U	0.530 U
Perfluorooctanoic acid (PFOA)	5.50	0.400	0.210 U	0.220 U	0.210 U
Perfluorotetradecanoic acid (PFTA)	0.330 U	0.310 U	0.310 U	0.330 U	0.320 U
Perfluorotridecanoic acid (PFTrDA)	0.220 U	0.200 U	0.210 U	0.220 U	0.210 U
Perfluoroundecanoic acid (PFUnA)	0.220 U	0.200 U	0.210 U	0.220 U	0.210 U

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	Locations: 74SB-19-04	74SB-19-04	74SB-19-05	74SB-19-05	74SB-19-05
Field Sample ID:	74SB-19-04-3-7	74SB-19-04-7-11	74SB-19-05-0.5-3	74SB-19-05-0-0.5	74SB-19-05-16-18
Sample Begin Depth:	3.00	7.00	0.50	0.00	16.00
Sample End Depth:	7.00	11.00	3.00	0.50	18.00
Sample Date:	01/04/2019	01/04/2019	01/03/2019	01/03/2019	01/03/2019
PFAS (ug/kg)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	2.10 U	2.10 U	2.10 U	2.20 U	2.00 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	1.00 U	1.10 U	1.00 U	1.10 U	1.00 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.00 U	1.10 U	1.00 U	0.650 J	1.00 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.00 U	1.10 U	1.00 U	1.10 U	1.00 U
Perfluorobutanesulfonic acid (PFBS)	0.190 U	0.190 U	0.190 U	0.200 U	0.180 U
Perfluorodecanoic acid (PFDA)	0.210 U	0.210 U	0.210 U	0.150 J	0.200 U
Perfluorododecanoic acid (PFDoA)	0.210 U	0.210 U	0.210 U	0.220 U	0.200 U
Perfluoroheptanoic acid (PFHpA)	0.210 U	0.210 U	0.210 U	0.220 U	0.200 U
Perfluorohexanesulfonic acid (PFHxS)	0.210 U	0.210 U	0.210 U	0.220 U	0.200 U
Perfluorohexanoic acid (PFHxA)	0.210 U	0.210 U	0.210 U	0.220 U	0.200 U
Perfluorononanoic acid (PFNA)	0.210 U	0.210 U	0.210 U	0.0980 J	0.200 U
Perfluorooctanesulfonic acid (PFOS)	0.520 U	0.530 U	0.480 J	1.20	0.510 U
Perfluorooctanoic acid (PFOA)	0.210 U	0.210 U	0.210 U	0.110 J	0.200 U
Perfluorotetradecanoic acid (PFTA)	0.310 U	0.320 U	0.310 U	0.330 U	0.310 U
Perfluorotridecanoic acid (PFTrDA)	0.210 U	0.210 U	0.210 U	0.220 U	0.200 U
Perfluoroundecanoic acid (PFUnA)	0.210 U	0.210 U	0.210 U	0.220 U	0.200 U

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	Locations: 74SB-19-05	74SB-19-05	74SB-19-06	74SB-19-06	74SB-19-06
Field Sample ID:	74SB-19-05-3-7	74SB-19-05-7-13	74SB-19-06-0.5-3	74SB-19-06-0-0.5	74SB-19-06-14-16
Sample Begin Depth:	3.00	7.00	0.50	0.00	14.00
Sample End Depth:	7.00	13.00	3.00	0.50	16.00
Sample Date:	01/03/2019	01/03/2019	01/04/2019	01/04/2019	01/04/2019
PFAS (ug/kg)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	2.00 U	2.00 U	2.20 U	2.20 U	2.10 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	1.00 U	1.00 U	1.10 U	1.10 U	1.00 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.00 U	1.00 U	1.10 U	1.10 U	1.00 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.00 U	1.00 U	1.10 U	1.10 U	1.00 U
Perfluorobutanesulfonic acid (PFBS)	0.180 U	0.180 U	0.190 U	0.200 U	0.190 U
Perfluorodecanoic acid (PFDA)	0.200 U	0.200 U	0.220 U	0.140 J	0.210 U
Perfluorododecanoic acid (PFDoA)	0.200 U	0.200 U	0.220 U	0.220 U	0.210 U
Perfluoroheptanoic acid (PFHpA)	0.200 U	0.200 U	0.220 U	0.100 J	0.210 U
Perfluorohexanesulfonic acid (PFHxS)	0.200 U	0.200 U	0.220 U	0.220 U	0.210 U
Perfluorohexanoic acid (PFHxA)	0.200 U	0.200 U	0.220 U	0.0890 J	0.210 U
Perfluorononanoic acid (PFNA)	0.200 U	0.200 U	0.220 U	0.190 J	0.210 U
Perfluorooctanesulfonic acid (PFOS)	0.510 U	0.510 U	0.540 U	0.940 J	0.520 U
Perfluorooctanoic acid (PFOA)	0.200 U	0.200 U	0.160 J	0.300 J	0.210 U
Perfluorotetradecanoic acid (PFTA)	0.310 U	0.310 U	0.320 U	0.330 U	0.310 U
Perfluorotridecanoic acid (PFTrDA)	0.200 U	0.200 U	0.220 U	0.220 U	0.210 U
Perfluoroundecanoic acid (PFUnA)	0.200 U	0.200 U	0.220 U	0.220 U	0.210 U

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	Locations: 74SB-19-06	74SB-19-06	74SB-19-06 (FD)	74SB-19-07	74SB-19-07
Field Sample ID:	74SB-19-06-3-7	74SB-19-06-7-14	74SB-DUP-19-01	74SB-19-07-0.5-3	74SB-19-07-0-0.5
Sample Begin Depth:	3.00	7.00	7.00	0.50	0.00
Sample End Depth:	7.00	14.00	14.00	3.00	0.50
Sample Date:	01/04/2019	01/04/2019	01/04/2019	01/04/2019	01/04/2019
PFAS (ug/kg)					
6:2 Fluorotelomer sulfonate (6:2 FTS)	2.10 U	2.10 U	2.10 U	2.20 U	2.30 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	1.10 U	1.10 U	1.00 U	1.10 U	1.10 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.10 U	1.10 U	1.00 U	1.10 U	1.10 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.10 U	1.10 U	1.00 U	1.10 U	1.10 U
Perfluorobutanesulfonic acid (PFBS)	0.190 U	0.190 U	0.190 U	0.200 U	0.200 U
Perfluorodecanoic acid (PFDA)	0.210 U	0.210 U	0.210 U	0.220 U	0.200 J
Perfluorododecanoic acid (PFDoA)	0.210 U	0.210 U	0.210 U	0.220 U	0.230 U
Perfluoroheptanoic acid (PFHpA)	0.210 U	0.210 U	0.210 U	0.190 J	0.320 J
Perfluorohexanesulfonic acid (PFHxS)	0.210 U	0.210 U	0.210 U	0.0970 J	0.230 U
Perfluorohexanoic acid (PFHxA)	0.210 U	0.210 U	0.210 U	0.200 J	0.380
Perfluorononanoic acid (PFNA)	0.210 U	0.210 U	0.210 U	0.220 U	0.360
Perfluorooctanesulfonic acid (PFOS)	0.530 U	0.530 U	0.520 U	0.560 U	1.30
Perfluorooctanoic acid (PFOA)	0.210 U	0.210 U	0.210 U	0.510	1.50
Perfluorotetradecanoic acid (PFTA)	0.320 U	0.320 U	0.310 U	0.330 U	0.340 U
Perfluorotridecanoic acid (PFTrDA)	0.210 U	0.210 U	0.210 U	0.220 U	0.230 U
Perfluoroundecanoic acid (PFUnA)	0.210 U	0.210 U	0.210 U	0.220 U	0.120 J

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	Locations: 74SB-19-07	74SB-19-07	74SB-19-07
Field Sample ID:	74SB-19-07-11-13	74SB-19-07-3-7	74SB-19-07-7-11
Sample Begin Depth:	11.00	3.00	7.00
Sample End Depth:	13.00	7.00	11.00
Sample Date:	01/04/2019	01/04/2019	01/04/2019
PFAS (ug/kg)			
6:2 Fluorotelomer sulfonate (6:2 FTS)	2.10 U	2.10 U	2.10 U
8:2 Fluorotelomer sulfonate (8:2 FTS)	1.00 U	1.00 U	1.00 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.00 U	1.00 U	1.00 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.00 U	1.00 U	1.00 U
Perfluorobutanesulfonic acid (PFBS)	0.190 U	0.190 U	0.180 U
Perfluorodecanoic acid (PFDA)	0.210 U	0.210 U	0.210 U
Perfluorododecanoic acid (PFDoA)	0.210 U	0.210 U	0.210 U
Perfluoroheptanoic acid (PFHpA)	0.210 U	0.210 U	0.210 U
Perfluorohexanesulfonic acid (PFHxS)	0.210 U	0.210 U	0.210 U
Perfluorohexanoic acid (PFHxA)	0.210 U	0.210 U	0.210 U
Perfluorononanoic acid (PFNA)	0.210 U	0.210 U	0.210 U
Perfluorooctanesulfonic acid (PFOS)	0.510 U	0.520 U	0.510 U
Perfluorooctanoic acid (PFOA)	0.160 J	0.150 J	0.210 U
Perfluorotetradecanoic acid (PFTA)	0.310 U	0.310 U	0.310 U
Perfluorotridecanoic acid (PFTrDA)	0.210 U	0.210 U	0.210 U
Perfluoroundecanoic acid (PFUnA)	0.210 U	0.210 U	0.210 U

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KOMAN, PFAS RI, Soil TOC Samples-Area 1

AOC 74, Barnum Road Firefighting Exercise Site

Locations: 74MW-19-04

Field Sample ID: 74M-19-04A-S0-20-28

Sample Begin Depth: 20.00

Sample End Depth: 28.00

Sample Date: 11/12/2019

Gen. Chemistry (mg/kg)

Total Organic Carbon	2000 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