

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 8/24/2018 and 5/31/2020

KOMAN, PFAS Sampling of Community and Private Wells, Fall 2018

Community and Residential Wells

	2019000-01G	2019000-04G	2019000-04G	2019000-05G	2019000-05G
Locations:	2019000-01G	2019000-04G	2019000-04G	2019000-05G	2019000-05G
	AYER GROVE POND	SPECTACLE POND WELL	SPECTACLE POND WELL	SPECTACLE POND WELL	SPECTACLE POND WELL
Field Sample ID:	WELL 1_AUG18	2A_AUG18	2A_OCT18	1A_AUG18	1A_OCT18
Sample Begin Depth:	0.00	0.00	0.00	0.00	0.00
Sample End Depth:	0.00	0.00	0.00	0.00	0.00
Sample Date:	08/24/2018	08/24/2018	10/25/2018	08/24/2018	10/25/2018
PFAS (ng/L)					
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.79 U	1.85 U	1.86 U	1.76 U	1.78 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.79 U	1.85 U	1.86 U	1.76 U	1.78 U
Perfluorobutanesulfonic acid (PFBS)	1.90	1.85 U	1.86 U	2.37	2.23
Perfluorodecanoic acid (PFDA)	1.79 U	1.85 U	1.86 U	1.76 U	1.78 U
Perfluorododecanoic acid (PFDoA)	1.79 U	1.85 U	1.86 U	1.76 U	1.78 U
Perfluoroheptanoic acid (PFHpA)	2.32	12.9	16.5	2.33	2.68
Perfluorohexanesulfonic acid (PFHxS)	6.06	3.00	3.27	5.55	6.49
Perfluorohexanoic acid (PFHxA)	3.33	30.7	37.3	3.65	3.80
Perfluorononanoic acid (PFNA)	1.79 U	1.85 U	1.86 U	1.76 U	1.78 U
Perfluorooctanesulfonic acid (PFOS)	3.71	8.08	7.84	7.32	8.40
Perfluorooctanoic acid (PFOA)	7.63	10.5	10.8	7.54	7.92
Perfluorotetradecanoic acid (PFTA)	1.79 U	1.85 U	1.86 U	1.76 U	1.78 U
Perfluorotridecanoic acid (PFTrDA)	1.79 U	1.85 U	1.86 U	1.76 U	1.78 U
Perfluoroundecanoic acid (PFUnA)	1.79 U	1.85 U	1.86 U	1.76 U	1.78 U

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 8/24/2018 and 5/31/2020

	2019000-06G	2019000-06G	2019000-07G	2019000-07G	2019000-08G
Locations:	2019000-06G	2019000-06G	2019000-07G	2019000-07G	2019000-08G
	AYER RW-06G/GW	GROVE POND WELL	GROVE POND WELL	RW-07G_SEP18	AYER RW-08G/GW
Field Sample ID:	6_AUG18	6_OCT18	7_OCT18		8_AUG18
Sample Begin Depth:	0.00	0.00	0.00	0.00	0.00
Sample End Depth:	0.00	0.00	0.00	0.00	0.00
Sample Date:	08/24/2018	10/25/2018	10/25/2018	09/11/2018	08/24/2018
PFAS (ng/L)					
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.80 U	1.78 U	1.78 U	1.78 U	1.78 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.80 U	1.78 U	1.78 U	1.78 U	1.78 U
Perfluorobutanesulfonic acid (PFBS)	3.04	2.50	3.06	2.87	4.15
Perfluorodecanoic acid (PFDA)	1.80 U	1.78 U	1.78 U	1.78 U	1.78 U
Perfluorododecanoic acid (PFDoA)	1.80 U	1.78 U	1.78 U	1.78 U	1.78 U
Perfluoroheptanoic acid (PFHpA)	7.33	3.22	37.7	40.0	52.5
Perfluorohexanesulfonic acid (PFHxS)	6.84	7.01	15.2	14.2	34.9
Perfluorohexanoic acid (PFHxA)	14.9	5.44	53.6	59.9	82.7
Perfluorononanoic acid (PFNA)	1.80 U	1.78 U	1.78 U	1.78 U	1.78 U
Perfluorooctanesulfonic acid (PFOS)	3.66	3.48	24.8	23.2	84.1
Perfluorooctanoic acid (PFOA)	8.56	7.92	21.1	24.1	29.4
Perfluorotetradecanoic acid (PFTA)	1.80 U	1.78 U	1.78 U	1.78 U	1.78 U
Perfluorotridecanoic acid (PFTrDA)	1.80 U	1.78 U	1.78 U	1.78 U	1.78 U
Perfluoroundecanoic acid (PFUnA)	1.80 U	1.78 U	1.78 U	1.78 U	1.78 U

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 8/24/2018 and 5/31/2020

	2019000-08G	2019000-GP	2019000-GP	2019000-GP	2019000-SP
Locations:	2019000-08G	2019000-GP	2019000-GP	2019000-GP	2019000-SP
	GROVE POND WELL	GROVE MULTI WELL	GROVE POND WTF	MULTI-FINISHED	SPECTACLE POND
Field Sample ID:	8_OCT18	(1,6,7)_SEP18	MULT 6 FINISH_A	GROVE_OCT18	FINISHED_AUG18
Sample Begin Depth:	0.00	0.00	0.00	0.00	0.00
Sample End Depth:	0.00	0.00	0.00	0.00	0.00
Sample Date:	10/25/2018	09/11/2018	08/24/2018	10/25/2018	08/24/2018
PFAS (ng/L)					
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.87 U	1.80 U	1.80 U	1.87 U	1.75 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.87 U	1.80 U	1.80 U	1.87 U	1.75 U
Perfluorobutanesulfonic acid (PFBS)	4.34	2.84	2.98	2.71	2.06
Perfluorodecanoic acid (PFDA)	1.87 U	1.80 U	1.80 U	1.87 U	1.75 U
Perfluorododecanoic acid (PFDoA)	1.87 U	1.80 U	1.80 U	1.87 U	1.75 U
Perfluoroheptanoic acid (PFHpA)	59.4	23.8	7.65	21.6	7.93
Perfluorohexanesulfonic acid (PFHxS)	44.2	10.8	6.91	11.5	4.13
Perfluorohexanoic acid (PFHxA)	94.5	37.1	14.9	31.3	17.8
Perfluorononanoic acid (PFNA)	1.87 U	1.80 U	1.80 U	1.87 U	1.75 U
Perfluorooctanesulfonic acid (PFOS)	91.9	13.5	3.57	15.4	7.82
Perfluorooctanoic acid (PFOA)	25.2	16.6	9.22	15.5	9.10
Perfluorotetradecanoic acid (PFTA)	1.87 U	1.80 U	1.80 U	1.87 U	1.75 U
Perfluorotridecanoic acid (PFTrDA)	1.87 U	1.80 U	1.80 U	1.87 U	1.75 U
Perfluoroundecanoic acid (PFUnA)	1.87 U	1.80 U	1.80 U	1.87 U	1.75 U

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 8/24/2018 and 5/31/2020

	2019000-SP	2019001-05G	2019001-05G	2019001-06G	2019001-06G
Locations:	2019000-SP	2019001-05G	2019001-05G	2019001-06G	2019001-06G
	SPECTACLE POND	PATTON WELL_AUG 18	PATTON WELL_OCT18	SHABOKEN WELL_AUG 18	SHABOKEN WELL_OCT18
Field Sample ID:	FINISHED_OCT18				
Sample Begin Depth:	0.00	0.00	0.00	0.00	0.00
Sample End Depth:	0.00	0.00	0.00	0.00	0.00
Sample Date:	10/25/2018	08/03/2018	10/25/2018	08/03/2018	10/25/2018
PFAS (ng/L)					
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.84 U	1.79 U	1.83 U	1.74 U	1.85 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.84 U	1.79 U	1.83 U	1.74 U	1.85 U
Perfluorobutanesulfonic acid (PFBS)	2.09	1.79 U	1.83 U	1.74 U	1.85 U
Perfluorodecanoic acid (PFDA)	1.84 U	1.79 U	1.83 U	1.74 U	1.85 U
Perfluorododecanoic acid (PFDoA)	1.84 U	1.79 U	1.83 U	1.74 U	1.85 U
Perfluoroheptanoic acid (PFHpA)	9.92	4.47	4.96	1.74 U	1.85 U
Perfluorohexanesulfonic acid (PFHxS)	4.88	7.46	8.22	14.1	15.9
Perfluorohexanoic acid (PFHxA)	20.8	7.64	7.48	2.00	1.85 U
Perfluorononanoic acid (PFNA)	1.84 U	1.79 U	1.83 U	1.74 U	1.85 U
Perfluorooctanesulfonic acid (PFOS)	8.05	3.46	3.56	3.70	3.77
Perfluorooctanoic acid (PFOA)	9.24	9.97	10.7	5.64	5.12
Perfluorotetradecanoic acid (PFTA)	1.84 U	1.79 U	1.83 U	1.74 U	1.85 U
Perfluorotridecanoic acid (PFTrDA)	1.84 U	1.79 U	1.83 U	1.74 U	1.85 U
Perfluoroundecanoic acid (PFUnA)	1.84 U	1.79 U	1.83 U	1.74 U	1.85 U

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 8/24/2018 and 5/31/2020

KOMAN, PFAS Sampling of Community and Private Wells, Historical Data

Community and Residential Wells

Locations:	2019001-03G	2019001-03G (FD)
Field Sample ID:	MacPherson Well	DUP-01
Sample Begin Depth:	0.00	0.00
Sample End Depth:	0.00	0.00
Sample Date:	07/28/2016	07/28/2016
PFAS (ug/L)		
Perfluorobutanesulfonic acid (PFBS)	0.0970	0.100
Perfluoroheptanoic acid (PFHpA)	0.0150	0.0110
Perfluorohexanesulfonic acid (PFHxS)	0.0540	0.0520
Perfluorononanoic acid (PFNA)	0.0210	0.0220
Perfluorooctanesulfonic acid (PFOS)	0.0440	0.0420
Perfluorooctanoic acid (PFOA)	0.0250	0.0240

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 8/24/2018 and 5/31/2020

KOMAN, PFAS Sampling of Town Water Supply Wells, Q1 2019

Community and Residential Wells

	2019000-01G	2019000-04G	2019000-05G	2019000-06G	2019000-07G
Locations:	2019000-01G	2019000-04G	2019000-05G	2019000-06G	2019000-07G
	GROVE POND WELL	SPECTACLE POND WELL	SPECTACLE POND WELL	GROVE POND WELL	GROVE POND WELL
Field Sample ID:	1_FEB19	2A_FEB19	1A_FEB19	6_FEB19	7_FEB19
Sample Begin Depth:	0.00	0.00	0.00	0.00	0.00
Sample End Depth:	0.00	0.00	0.00	0.00	0.00
Sample Date:	02/20/2019	02/20/2019	02/20/2019	02/20/2019	02/20/2019
PFAS (ng/L)					
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.86 UJ	1.84 UJ	1.78 UJ	3.38	1.84 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.86 U	1.84 U	1.78 U	2.22	1.84 U
Perfluorobutanesulfonic acid (PFBS)	1.86 U	1.84 U	2.12 J	2.20	2.92
Perfluorodecanoic acid (PFDA)	1.86 U	1.84 U	1.78 U	1.87 U	1.84 U
Perfluorododecanoic acid (PFDoA)	1.86 U	1.84 U	1.78 U	1.87 U	1.84 U
Perfluoroheptanoic acid (PFHpA)	2.22 J	12.3	2.52 J	2.71	27.0
Perfluorohexanesulfonic acid (PFHxS)	6.54 J	3.13 J	5.72 J	7.12	11.5
Perfluorohexanoic acid (PFHxA)	2.36 J	27.7 J	3.53 J	4.25	41.2
Perfluorononanoic acid (PFNA)	1.86 U	1.84 U	1.78 U	1.87 U	1.84 U
Perfluorooctanesulfonic acid (PFOS)	4.20 J	8.10	9.41 J	4.54	16.7
Perfluorooctanoic acid (PFOA)	9.46 J	10.9 J	8.14 J	8.16	19.0
Perfluorotetradecanoic acid (PFTA)	1.86 U	1.84 U	1.78 U	1.87 U	1.84 U
Perfluorotridecanoic acid (PFTrDA)	1.86 U	1.84 U	1.78 U	1.87 U	1.84 U
Perfluoroundecanoic acid (PFUnA)	1.86 U	1.84 U	1.78 U	1.87 U	1.84 U

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 8/24/2018 and 5/31/2020

	2019000-08G	2019000-GP	2019000-SP	2019001-05G	2019001-06G
Locations:	2019000-08G	2019000-GP	2019000-SP	2019001-05G	2019001-06G
	GROVE POND WELL	GROVE POND MULTI	SPECTACLE POND	PATTON WELL_FEB19	SHABOKEN
Field Sample ID:	8_FEB19	WELL_FEB19	FINISHED_FEB19		WELL_FEB19
Sample Begin Depth:	0.00	0.00	0.00	0.00	0.00
Sample End Depth:	0.00	0.00	0.00	0.00	0.00
Sample Date:	02/20/2019	02/20/2019	02/20/2019	02/20/2019	02/20/2019
PFAS (ng/L)					
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.96 U	1.80 U	1.86 U	1.85 U	1.78 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.96 U	1.80 U	1.86 U	1.85 U	1.78 U
Perfluorobutanesulfonic acid (PFBS)	4.16	2.51	2.10	1.85 U	1.78 U
Perfluorodecanoic acid (PFDA)	1.96 U	1.80 U	1.86 U	1.85 U	1.78 U
Perfluorododecanoic acid (PFDoA)	1.96 U	1.80 U	1.86 U	1.85 U	1.78 U
Perfluoroheptanoic acid (PFHpA)	94.3	15.3	7.93	4.78	1.78 U
Perfluorohexanesulfonic acid (PFHxS)	32.3	8.61	4.76	8.06	19.8
Perfluorohexanoic acid (PFHxA)	121	23.6	16.4	8.13	2.50
Perfluorononanoic acid (PFNA)	1.96 U	1.80 U	1.86 U	1.85 U	1.78 U
Perfluorooctanesulfonic acid (PFOS)	71.7	10.5	9.31	4.60	5.80
Perfluorooctanoic acid (PFOA)	50.0	14.0	9.76	11.3	6.81
Perfluorotetradecanoic acid (PFTA)	1.96 U	1.80 U	1.86 U	1.85 U	1.78 U
Perfluorotridecanoic acid (PFTrDA)	1.96 U	1.80 U	1.86 U	1.85 U	1.78 U
Perfluoroundecanoic acid (PFUnA)	1.96 U	1.80 U	1.86 U	1.85 U	1.78 U

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 8/24/2018 and 5/31/2020

KOMAN, PFAS Sampling of Town Water Supply Wells, Q1 2020

Community and Residential Wells

	Locations: 2019000-01G	2019000-04G	2019000-05G	2019000-06G	2019000-07G
Field Sample ID:	GP WELL1_FEB20	SP WELL2A_FEB20	SP WELL1A_FEB20	GP WELL6_FEB20	GP WELL7_FEB20
Sample Begin Depth:	42.00	0.00	0.00	47.00	56.00
Sample End Depth:	62.00	0.00	0.00	57.00	71.00
Sample Date:	02/13/2020	02/13/2020	02/13/2020	02/13/2020	02/13/2020
PFAS (ng/L)					
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.475 U	0.470 U	0.446 U	0.494 U	0.488 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.190 U	0.188 U	0.178 U	0.198 U	0.195 U
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	0.950 U	0.940 U	0.893 U	0.988 U	0.976 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.950 U	0.940 U	0.893 U	0.988 U	0.976 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.950 U	0.940 U	0.893 U	0.988 U	0.976 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.950 U	0.940 U	0.893 U	0.988 U	0.976 U
Perfluorobutanesulfonic acid (PFBS)	2.09	2.08	2.04	2.05	1.45 J
Perfluorodecanoic acid (PFDA)	0.950 U	0.940 U	0.893 U	0.988 U	0.840 J
Perfluorododecanoic acid (PFDoA)	0.950 U	0.940 U	0.893 U	0.988 U	0.976 U
Perfluoroheptanoic acid (PFHpA)	4.07	8.49	2.27	2.94	8.54
Perfluorohexanesulfonic acid (PFHxS)	9.58	2.77	5.91	5.88	7.08
Perfluorohexanoic acid (PFHxA)	4.22	19.5	3.39	4.82	10.7
Perfluorononanoic acid (PFNA)	0.874 J	0.966 J	0.575 J	0.510 J	1.32 J
Perfluorooctanesulfonic acid (PFOS)	3.92	7.66	9.59	3.36	12.8
Perfluorooctanoic acid (PFOA)	13.0	10.6	8.25	7.81	13.6
Perfluorotetradecanoic acid (PFTA)	0.950 U	0.940 U	0.893 U	0.988 U	0.976 U
Perfluorotridecanoic acid (PFTrDA)	0.950 U	0.940 U	0.893 U	0.988 U	0.976 U
Perfluoroundecanoic acid (PFUnA)	0.950 U	0.940 U	0.893 U	0.988 U	0.976 U

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 8/24/2018 and 5/31/2020

	Locations: 2019000-08G	2019000-GP	2019000-SP
Field Sample ID:	GP WELL8_FEB20	GP FINISHED_FEB20	SP FINISHED_FEB20
Sample Begin Depth:	60.00	0.00	0.00
Sample End Depth:	73.00	0.00	0.00
Sample Date:	02/13/2020	02/13/2020	02/13/2020
PFAS (ng/L)			
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.456 U	0.465 U	0.446 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.182 U	0.186 U	0.178 U
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	0.912 U	0.929 U	0.893 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.912 U	0.929 U	0.893 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.912 U	0.929 U	0.893 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.912 U	0.929 U	0.893 U
Perfluorobutanesulfonic acid (PFBS)	3.10	1.07 J	2.14
Perfluorodecanoic acid (PFDA)	0.912 U	0.929 U	0.893 U
Perfluorododecanoic acid (PFDoA)	0.912 U	0.929 U	0.893 U
Perfluoroheptanoic acid (PFHpA)	81.7	1.61 J	5.63
Perfluorohexanesulfonic acid (PFHxS)	22.7	3.21	4.04
Perfluorohexanoic acid (PFHxA)	83.4	2.71	11.4
Perfluorononanoic acid (PFNA)	1.80 J	0.929 U	0.857 J
Perfluorooctanesulfonic acid (PFOS)	41.4	1.95	8.68
Perfluorooctanoic acid (PFOA)	50.5	4.48	9.81
Perfluorotetradecanoic acid (PFTA)	0.912 U	0.929 U	0.893 U
Perfluorotridecanoic acid (PFTrDA)	0.912 U	0.929 U	0.893 U
Perfluoroundecanoic acid (PFUnA)	0.912 U	0.929 U	0.893 U

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 8/24/2018 and 5/31/2020

KOMAN, PFAS Sampling of Town Water Supply Wells, Q2 2019

Community and Residential Wells

	2019000-01G	2019000-05G	2019000-07G	2019000-08G	2019000-GP
Locations:	2019000-01G	2019000-05G	2019000-07G	2019000-08G	2019000-GP
	GROVE POND WELL	SPECTACLE POND WELL	GROVE POND WELL	GROVE POND WELL	GROVE POND
Field Sample ID:	1_MAY19	1A_MAY19	7_MAY19	8_MAY19	FINISHED_MAY19
Sample Begin Depth:	0.00	0.00	0.00	0.00	0.00
Sample End Depth:	0.00	0.00	0.00	0.00	0.00
Sample Date:	05/21/2019	05/21/2019	05/21/2019	05/21/2019	05/21/2019
PFAS (ng/L)					
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.92 UJ	1.77 UJ	1.79 UJ	1.96 U	1.80 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.92 UJ	1.77 UJ	1.79 UJ	1.96 U	1.80 U
Perfluorobutanesulfonic acid (PFBS)	2.32 J	1.98 J	2.54 J	3.84	2.37
Perfluorodecanoic acid (PFDA)	1.92 UJ	1.77 UJ	1.79 UJ	1.96 U	1.80 U
Perfluorododecanoic acid (PFDoA)	1.92 UJ	1.77 UJ	1.79 UJ	1.96 U	1.80 U
Perfluoroheptanoic acid (PFHpA)	1.92 UJ	3.51 J	40.2 J	69.5	17.4
Perfluorohexanesulfonic acid (PFHxS)	5.46 J	3.89 J	9.65 J	28.9	7.26
Perfluorohexanoic acid (PFHxA)	4.01 J	9.77 J	60.7 J	104	27.2
Perfluorononanoic acid (PFNA)	1.92 UJ	1.77 UJ	1.79 UJ	1.96 U	1.80 U
Perfluorooctanesulfonic acid (PFOS)	2.71 J	7.10 J	13.1 J	65.7	8.45
Perfluorooctanoic acid (PFOA)	6.43 J	7.54 J	32.6 J	46.0	17.9
Perfluorotetradecanoic acid (PFTA)	1.92 UJ	1.77 UJ	1.79 UJ	1.96 U	1.80 U
Perfluorotridecanoic acid (PFTrDA)	1.92 UJ	1.77 UJ	1.79 UJ	1.96 U	1.80 U
Perfluoroundecanoic acid (PFUnA)	1.92 UJ	1.77 UJ	1.79 UJ	1.96 U	1.80 U

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 8/24/2018 and 5/31/2020

	2019001-03G	2019001-05G	2019001-06G
Locations:	2019001-03G	2019001-05G	2019001-06G
	MACPHERSON	PATTON WELL_MAY19	SHABOKEN
Field Sample ID:	WELL_MAY19		WELL_MAY19
Sample Begin Depth:	0.00	0.00	0.00
Sample End Depth:	0.00	0.00	0.00
Sample Date:	05/21/2019	05/21/2019	05/21/2019
PFAS (ng/L)			
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.89 U	1.92 U	1.89 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	1.89 U	1.92 U	1.89 U
Perfluorobutanesulfonic acid (PFBS)	6.56	1.92 U	1.89 U
Perfluorodecanoic acid (PFDA)	1.89 U	1.92 U	1.89 U
Perfluorododecanoic acid (PFDoA)	1.89 U	1.92 U	1.89 U
Perfluoroheptanoic acid (PFHpA)	7.28	3.01	1.89 U
Perfluorohexanesulfonic acid (PFHxS)	49.4	6.47	17.4
Perfluorohexanoic acid (PFHxA)	11.9	6.90	5.12
Perfluorononanoic acid (PFNA)	2.29	1.92 U	1.89 U
Perfluorooctanesulfonic acid (PFOS)	31.8	3.33	5.43
Perfluorooctanoic acid (PFOA)	21.0	9.33	9.25
Perfluorotetradecanoic acid (PFTA)	1.89 U	1.92 U	1.89 U
Perfluorotridecanoic acid (PFTrDA)	1.89 U	1.92 U	1.89 U
Perfluoroundecanoic acid (PFUnA)	1.89 U	1.92 U	1.89 UJ

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KOMAN, PFAS Sampling of Town Water Supply Wells, Q3 2019

Community and Residential Wells

	Locations: 2019000-01G	2019000-04G	2019000-05G	2019000-06G	2019000-08G
	Field Sample ID: 2019000-01G_AUG19	2019000-04G_AUG19	2019000-05G_AUG19	2019000-06G_AUG19	2019000-08G_AUG19
	Sample Begin Depth: 0.00	0.00	0.00	0.00	0.00
	Sample End Depth: 0.00	0.00	0.00	0.00	0.00
	Sample Date: 08/20/2019	08/20/2019	08/20/2019	08/20/2019	08/20/2019
E537.1 (ng/L)					
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.438 U	0.458 U	0.451 U	0.442 U	0.446 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.175 U	0.183 U	0.180 U	0.177 U	0.178 U
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	0.877 U	0.916 U	0.902 U	0.883 U	0.893 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.877 U	0.916 U	0.902 U	0.883 U	0.893 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.877 U	0.916 U	0.902 U	0.883 U	0.893 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.877 U	0.916 U	0.902 U	0.883 U	0.893 U
Perfluorobutanesulfonic acid (PFBS)	2.14	0.916 U	0.902 U	1.88	3.18
Perfluorodecanoic acid (PFDA)	0.877 U	0.916 U	0.902 U	0.883 U	0.893 U
Perfluorododecanoic acid (PFDoA)	0.877 U	0.916 U	0.902 U	0.883 U	0.893 U
Perfluoroheptanoic acid (PFHpA)	3.31	9.14	1.94	39.6	71.3
Perfluorohexanesulfonic acid (PFHxS)	5.16	2.37	3.85	7.28	26.7
Perfluorohexanoic acid (PFHxA)	6.03	21.0	2.70	45.1	85.6
Perfluorononanoic acid (PFNA)	0.877 U	0.916 U	0.902 U	0.883 U	0.893 U
Perfluorooctanesulfonic acid (PFOS)	2.92	6.70	6.79	6.80	58.2
Perfluorooctanoic acid (PFOA)	6.82	8.48	7.04	29.8	41.3
Perfluorotetradecanoic acid (PFTA)	0.877 U	0.916 U	0.902 U	0.883 U	0.893 U
Perfluorotridecanoic acid (PFTrDA)	0.877 U	0.916 U	0.902 U	0.883 U	0.893 U
Perfluoroundecanoic acid (PFUnA)	0.877 U	0.916 U	0.902 U	0.883 U	0.893 U

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	Locations: 2019000-GP	2019000-SP	2019001-05G	2019001-06G	2019001-06G
	Field Sample ID: 2019000-GP_AUG19	2019000-SP_AUG19	2019001-05G_AUG19	2019001-06G_AUG19	2019001-06G-R_AUG19
	Sample Begin Depth: 0.00	0.00	0.00	0.00	0.00
	Sample End Depth: 0.00	0.00	0.00	0.00	0.00
	Sample Date: 08/20/2019	08/20/2019	08/20/2019	08/20/2019	08/20/2019
E537.1 (ng/L)					
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.463 U	0.436 U	0.472 U	0.458 U	0.456 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.185 U	0.174 U	0.189 U	0.183 U	0.182 U
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	0.926 U	0.871 U	0.943 U	0.916 U	0.912 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.926 U	0.871 U	0.943 U	0.916 U	0.912 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.926 U	0.871 U	0.943 U	4.48	0.912 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.926 U	0.871 U	0.943 U	3.46	0.912 U
Perfluorobutanesulfonic acid (PFBS)	1.92	0.871 U	0.943 U	0.916 U	0.912 U
Perfluorodecanoic acid (PFDA)	0.926 U	0.871 U	0.943 U	0.916 U	0.912 U
Perfluorododecanoic acid (PFDoA)	0.926 U	0.871 U	0.943 U	0.916 U	0.912 U
Perfluoroheptanoic acid (PFHpA)	17.3	5.17	3.37	0.916 U	0.912 U
Perfluorohexanesulfonic acid (PFHxS)	5.05	3.02	6.23	0.916 U	14.4
Perfluorohexanoic acid (PFHxA)	20.8	11.2	5.96	0.916 U	3.80
Perfluorononanoic acid (PFNA)	0.926 U	0.871 U	0.943 U	0.916 U	0.912 U
Perfluorooctanesulfonic acid (PFOS)	4.57	7.33	3.06	0.916 U	5.38
Perfluorooctanoic acid (PFOA)	15.8	7.72	8.42	0.916 U	7.44
Perfluorotetradecanoic acid (PFTA)	0.926 U	0.871 U	0.943 U	0.916 U	0.912 U
Perfluorotridecanoic acid (PFTrDA)	0.926 U	0.871 U	0.943 U	0.916 U	0.912 U
Perfluoroundecanoic acid (PFUnA)	0.926 U	0.871 U	0.943 U	0.916 U	0.912 U

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 8/24/2018 and 5/31/2020

KOMAN, PFAS Sampling of Town Water Supply Wells, Q4 2019

Community and Residential Wells

	Locations: 2019000-01G	2019000-04G	2019000-05G	2019000-06G	2019000-07G
Field Sample ID:	GP WELL 1_NOV19	SP WELL 2A_NOV19	SP WELL 1A_NOV19	GP WELL 6_NOV19	GP WELL 7_NOV19
Sample Begin Depth:	42.00	0.00	0.00	47.00	56.00
Sample End Depth:	62.00	0.00	0.00	57.00	71.00
Sample Date:	11/22/2019	11/18/2019	11/18/2019	11/22/2019	11/22/2019
PFAS (ng/L)					
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.463 UJ	0.475 UJ	0.445 UJ	0.451 U	0.450 U
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.185 UJ	0.190 UJ	0.178 U	0.180 U	0.180 U
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	0.926 UJ	0.950 UJ	0.890 UJ	0.902 U	0.899 U
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.926 UJ	0.950 UJ	0.890 U	0.902 U	0.899 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.926 UJ	0.950 UJ	0.890 UJ	0.902 U	1.13 J
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.926 UJ	0.950 UJ	0.890 U	0.902 U	0.899 U
Perfluorobutanesulfonic acid (PFBS)	1.65 J	1.66 J	1.79 J	2.22	2.33
Perfluorodecanoic acid (PFDA)	0.926 UJ	0.950 UJ	0.890 U	0.902 U	0.899 U
Perfluorododecanoic acid (PFDoA)	0.926 UJ	0.950 UJ	0.890 U	0.902 U	0.899 U
Perfluoroheptanoic acid (PFHpA)	2.37 J	10.1 J	1.96	10.6	43.7
Perfluorohexanesulfonic acid (PFHxS)	5.78 J	2.34 J	4.16	6.19	13.7
Perfluorohexanoic acid (PFHxA)	3.42 J	23.4 J	2.95	16.7	50.9
Perfluorononanoic acid (PFNA)	0.600 J	0.996 J	0.509 J	0.632 J	1.42 J
Perfluorooctanesulfonic acid (PFOS)	3.24 J	6.99 J	6.70 J	3.71	17.5
Perfluorooctanoic acid (PFOA)	9.36 J	10.0 J	7.24	12.2	32.7
Perfluorotetradecanoic acid (PFTA)	0.926 UJ	0.950 UJ	0.890 U	0.902 U	0.899 U
Perfluorotridecanoic acid (PFTrDA)	0.926 UJ	0.950 UJ	0.890 U	0.902 U	0.899 U
Perfluoroundecanoic acid (PFUnA)	0.926 UJ	0.950 UJ	0.890 U	0.902 U	0.899 U

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 8/24/2018 and 5/31/2020

	2019000-08G	2019000-GP	2019000-SP
Locations:	2019000-08G	2019000-GP	2019000-SP
Field Sample ID:	GP WELL 8_NOV19	GP FINISHED_NOV19	SP FINISHED_NOV19
Sample Begin Depth:	60.00	0.00	0.00
Sample End Depth:	73.00	0.00	0.00
Sample Date:	11/22/2019	11/22/2019	11/18/2019
PFAS (ng/L)			
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	0.445 U	0.492 U	0.451 UJ
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.178 U	0.197 U	0.180 U
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	0.890 U	0.984 U	0.902 UJ
Hexafluoropropylene oxide dimer acid (HFPO-DA)	0.890 U	0.984 U	0.902 U
N-Ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.890 U	0.984 U	0.902 UJ
N-Methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.890 U	0.984 U	0.902 U
Perfluorobutanesulfonic acid (PFBS)	3.66	1.15 J	1.77 J
Perfluorodecanoic acid (PFDA)	0.890 U	0.984 U	0.902 U
Perfluorododecanoic acid (PFDoA)	0.890 U	0.984 U	0.902 U
Perfluoroheptanoic acid (PFHpA)	89.9	5.50	6.19
Perfluorohexanesulfonic acid (PFHxS)	31.3	2.90	3.48
Perfluorohexanoic acid (PFHxA)	105	8.17	13.4
Perfluorononanoic acid (PFNA)	1.75 J	0.984 U	0.816 J
Perfluorooctanesulfonic acid (PFOS)	61.3	2.00	7.77 J
Perfluorooctanoic acid (PFOA)	54.8	6.28	8.91
Perfluorotetradecanoic acid (PFTA)	0.890 U	0.984 U	0.902 U
Perfluorotridecanoic acid (PFTTrDA)	0.890 U	0.984 U	0.902 U
Perfluoroundecanoic acid (PFUnA)	0.890 U	0.984 U	0.902 U

Former Fort Devens, Stage 2B Validation - Electronic and Manual Data Approved Between 8/24/2018 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