

May 2023 Water-supply Well PFAS Analytical Results - Gustavus DOT&PF

Analytical Method	Analyte	Regulatory Limit	Units	NPS Well	PW-012	PW-059	PW-203		PW-205.1	PW-208.1	
				NPS Well 5/2/2023	PW-012 5/5/2023	PW-059 5/2/2023	PW-303 5/2/2023	PW-203 5/2/2023	PW-205.1 5/3/2023	PW-308.1 5/5/2023	PW-208.1 5/5/2023
DoD QSM Table B-15, EPA 537(Mod)	Perfluorooctanesulfonic acid (PFOS)	70†	ng/L	7.2	1.3 J	3.4	<1.6	<1.6	1.6 J	14	14
	Perfluorooctanoic acid (PFOA)		ng/L	2.6	<1.7	1.4 J	<1.6	<1.6	<1.8	<1.9	0.79 J
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	10‡	ng/L	<3.8	<3.3	<3.6	<3.3	<3.2	<3.6	<3.8	<3.6
	Perfluorobutanesulfonic acid (PFBS)	2000‡	ng/L	0.92 J	0.21 J	1.6 J	0.16 J	<1.6	<1.8	0.54 J	0.44 J
	Perfluorodecanoic acid (PFDA)	-	ng/L	<1.9	<1.7	0.97 J	<1.6	<1.6	<1.8	<1.9	<1.8
	Perfluorododecanoic acid (PFDoA)	-	ng/L	<1.9	<1.7	<1.8	<1.6	<1.6	<1.8	<1.9	<1.8
	Perfluoroheptanoic acid (PFHpA)	-	ng/L	3.2	<1.7	0.57 J	<1.6	<1.6	0.29 J	0.71 J	0.82 J
	Perfluorohexanesulfonic acid (PFHxS)	-	ng/L	6.3	1.7	2.4	0.49 J	0.49 J	1.0 J	2.5	2.7
	Perfluorohexanoic acid (PFHxA)	-	ng/L	6.0	<1.7	1.7 J	<1.6	<1.6	<1.8	1.5 J	1.4 J
	Perfluorononanoic acid (PFNA)	-	ng/L	<1.9	<1.7	0.52 J	<1.6	<1.6	<1.8	<1.9	<1.8
	Perfluorotetradecanoic acid (PFTeA)	-	ng/L	<1.9	<1.7	<1.8	<1.6	<1.6	<1.8	<1.9	<1.8
	Perfluorotridecanoic acid (PFTrDA)	-	ng/L	<1.9	<1.7	<1.8	<1.6	<1.6	<1.8	<1.9	<1.8
	Perfluoroundecanoic acid (PFUnA)	-	ng/L	<1.9	<1.7	<1.8	<1.6	<1.6	<1.8	<1.9	<1.8
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	-	ng/L	<1.9	<1.7	<1.8	<1.6	<1.6	<1.8	<1.9	<1.8
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	-	ng/L	<1.9	<1.7	<1.8	<1.6	<1.6	<1.8	<1.9	<1.8
	4,8-Dioxa-3H-perfluorononanoic acid (DONA)	-	ng/L	<1.9	<1.7	<1.8	<1.6	<1.6	<1.8	<1.9	<1.8
N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	-	ng/L	<4.8	<4.1	<4.5	<4.1	<4.1	<4.5	<4.7	<4.5	
N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	-	ng/L	<4.8	<4.1	<4.5	<4.1	<4.1	<4.5	<4.7	<4.5	

- Notes:
- Results reported from Eurofins Environment Testing America work order 320-100020-1.
 - PW-303 is the field duplicate of sample PW-203; PW-308.1 is the field duplicate of sample PW-208.1.
 - † Current action level is 70 ng/L for the sum of PFOS and PFOA.
 - ‡ Current final EPA lifetime health advisory (LHA) level.
 - DEC Alaska Department of Environmental Conservation
 - EPA United States Environmental Protection Agency
 - PFAS per- and poly-fluoroalkyl substances
 - QSM Quality Systems Manual
 - ng/L nanograms per liter
 - No applicable regulatory limit exists for the associated analyte.
 - < Analyte not detected; listed as less than the reporting limit (RL) unless otherwise flagged due to quality control failures
 - J Estimated concentration, detected greater than the detection limit and less than the RL. Flag applied by the laboratory.

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Analytical Method	Analyte	Regulatory Limit	Units	PW-221	PW-401
				PW-221 5/4/2023	PW-401 5/2/2023
DoD QSM Table B-15, EPA 537(Mod)	Perfluorooctanesulfonic acid (PFOS)	70†	ng/L	<1.6	7.4
	Perfluorooctanoic acid (PFOA)		ng/L	<1.6	<1.8
	Hexafluoropropylene oxide dimer acid (HFPO-DA)	10‡	ng/L	<3.3	<3.5
	Perfluorobutanesulfonic acid (PFBS)	2000‡	ng/L	<1.6	<1.8
	Perfluorodecanoic acid (PFDA)	-	ng/L	<1.6	<1.8
	Perfluorododecanoic acid (PFDoA)	-	ng/L	<1.6	<1.8
	Perfluoroheptanoic acid (PFHpA)	-	ng/L	0.24 J	0.26 J
	Perfluorohexanesulfonic acid (PFHxS)	-	ng/L	<1.6	1.1 J
	Perfluorohexanoic acid (PFHxA)	-	ng/L	<1.6	0.70 J
	Perfluorononanoic acid (PFNA)	-	ng/L	<1.6	<1.8
	Perfluorotetradecanoic acid (PFTeA)	-	ng/L	<1.6	<1.8
	Perfluorotridecanoic acid (PFTrDA)	-	ng/L	<1.6	<1.8
	Perfluoroundecanoic acid (PFUnA)	-	ng/L	<1.6	<1.8
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	-	ng/L	<1.6	<1.8
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	-	ng/L	<1.6	<1.8
	4,8-Dioxa-3H-perfluorononanoic acid (DONA)	-	ng/L	<1.6	<1.8
	N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	-	ng/L	<4.1	<4.4
N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	-	ng/L	<4.1	<4.4	

- Notes:
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 - PW-303* is the field duplicate of sample *PW-203*; *PW-308.1* is the field duplicate of sample *PW-208.1*.
 - † Current action level is 70 ng/L for the sum of PFOS and PFOA.
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