

Table 1 - November 2022 Water Supply Well Analytical Results- Port Heiden

Sample Name			PTH-013	PTH-015	PTH-116	PTH-016	PTH-020	PTH-022
Sample Date			11/11/2022	11/11/2022	11/10/2022		11/10/2022	11/10/2022
Analyte	Action Level	Units	Project Sample	Project Sample	Field Duplicate Pair		Project Sample	Project Sample
Perfluorohexanesulfonic acid (PFHxS)	-	ng/L	0.70 J	<2.0	<2.1	<1.8	5.8 J*	<1.8 J*
Perfluorohexanoic acid (PFHxA)	-	ng/L	0.65 J	<2.0	<2.1	<1.8	1.3 J*	<1.8 J*
Perfluoroheptanoic acid (PFHpA)	-	ng/L	<1.7	<2.0	<2.1	<1.8	0.47 J*	<1.8 J*
Perfluorononanoic acid (PFNA)	-	ng/L	<1.7	<2.0	<2.1	<1.8	<1.8 J*	<1.8 J*
Perfluorobutanesulfonic acid (PFBS)	-	ng/L	0.34 J	<2.0	<2.1	<1.8	1.7 J*	<1.8 J*
Perfluorodecanoic acid (PFDA)	-	ng/L	<1.7	<2.0	<2.1	<1.8	<1.8 J*	<1.8 J*
Perfluoroundecanoic acid (PFUnA)	-	ng/L	<1.7	<2.0	<2.1	<1.8	<1.8 J*	<1.8 J*
Perfluorododecanoic acid (PFDoA)	-	ng/L	<1.7	<2.0	<2.1	<1.8	<1.8 J*	<1.8 J*
Perfluorotridecanoic acid (PFTrDA)	-	ng/L	<1.7	<2.0	<2.1	<1.8	<1.8 J*	<1.8 J*
Perfluorotetradecanoic acid (PFTeA)	-	ng/L	<1.7	<2.0	<2.1	<1.8	<1.8 J*	<1.8 J*
N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	-	ng/L	<4.3	<4.9	<5.2	<4.5	<4.6 J*	<4.6 J*
N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	-	ng/L	<4.3	<4.9	<5.2	<4.5	<4.6 J*	<4.6 J*
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	-	ng/L	<1.7	<2.0	<2.1	<1.8	<1.8 J*	<1.8 J*
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	-	ng/L	<1.7	<2.0	<2.1	<1.8	<1.8 J*	<1.8 J*
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	-	ng/L	<1.7	<2.0	<2.1	<1.8	<1.8 J*	<1.8 J*
Hexafluoropropylene oxide dimer acid (HFPO-DA)	-	ng/L	<3.5	<3.9	<4.2	<3.6	<3.6 J*	<3.7 J*
Perfluorooctanesulfonic acid (PFOS)	70†	ng/L	<1.7	<2.0	<2.1	0.50 J	<1.8 J*	<1.8 J*
Perfluorooctanoic acid (PFOA)		ng/L	<1.7	<2.0	<2.1	<1.8	<1.8 J*	<1.8 J*
Combined (PFOS + PFOA)	70†	ng/L	n/a	n/a	n/a	0.50 J‡	n/a	n/a

Notes: Results reported from Eurofins Environment Testing work order 320-94388-1.

† DEC PFAS drinking water action level is 70 ng/L for PFOS and PFOA.

< Analyte not detected; listed as less than the RL unless otherwise flagged due to quality control failures.

- Action level not established

J Estimated concentration, detected greater than the DL and less than the RL. Flag applied by the laboratory.

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Sample Name			PTH-025	PTH-026	PTH-027	PTH-029	PTH-030	PTH-031
Sample Date			11/9/2022	11/9/2022	11/10/2022	11/10/2022	11/9/2022	11/9/2022
Analyte	Action Level	Units	Project Sample	Project Sample	Project Sample	Project Sample	Project Sample	Project Sample
Perfluorohexanesulfonic acid (PFHxS)	-	ng/L	35	<2.0	<1.8	<1.8	<1.8	<1.8
Perfluorohexanoic acid (PFHxA)	-	ng/L	4.8	<2.0	<1.8	<1.8	<1.8	<1.8
Perfluoroheptanoic acid (PFHpA)	-	ng/L	1.1 J	<2.0	<1.8	<1.8	<1.8	0.24 J
Perfluorononanoic acid (PFNA)	-	ng/L	<1.8	<2.0	<1.8	<1.8	<1.8	<1.8
Perfluorobutanesulfonic acid (PFBS)	-	ng/L	9.9	<2.0	<1.8	<1.8	<1.8	<1.8
Perfluorodecanoic acid (PFDA)	-	ng/L	<1.8	<2.0	<1.8	<1.8	<1.8	<1.8
Perfluoroundecanoic acid (PFUnA)	-	ng/L	<1.8	<2.0	<1.8	<1.8	<1.8	<1.8
Perfluorododecanoic acid (PFDoA)	-	ng/L	<1.8	<2.0	<1.8	<1.8	<1.8	<1.8
Perfluorotridecanoic acid (PFTrDA)	-	ng/L	<1.8	<2.0	<1.8	<1.8	<1.8	<1.8
Perfluorotetradecanoic acid (PFTeA)	-	ng/L	<1.8	<2.0	<1.8	<1.8	<1.8	<1.8
N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	-	ng/L	<4.6	<4.9	<4.5	<4.6	<4.5	<4.5
N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	-	ng/L	<4.6	<4.9	<4.5	<4.6	<4.5	<4.5
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	-	ng/L	<1.8	<2.0	<1.8	<1.8	<1.8	<1.8
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	-	ng/L	<1.8	<2.0	<1.8	<1.8	<1.8	<1.8
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	-	ng/L	<1.8	<2.0	<1.8	<1.8	<1.8	<1.8
Hexafluoropropylene oxide dimer acid (HFPO-DA)	-	ng/L	<3.7	<3.9	<3.6	<3.7	<3.6	<3.6
Perfluorooctanesulfonic acid (PFOS)	70†	ng/L	<1.8	<2.0	<1.8	<1.8	<1.8	1.3 J
Perfluorooctanoic acid (PFOA)		ng/L	<1.8	<2.0	<1.8	<1.8	<1.8	2.0
Combined (PFOS + PFOA)	70†	ng/L	n/a	n/a	n/a	n/a	n/a	3.3 J

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Sample Name			PTH-032	PTH-033	PTH-037	PTH-042	PTH-043
Sample Date			11/9/2022	11/10/2022	11/11/2022	11/10/2022	11/9/2022
Analyte	Action Level	Units	Project Sample	Project Sample	Project Sample	Project Sample	Project Sample
Perfluorohexanesulfonic acid (PFHxS)	-	ng/L	0.60 J	<1.8	<1.7	<1.9	<1.9
Perfluorohexanoic acid (PFHxA)	-	ng/L	<1.8	<1.8	<1.7	<1.9	<1.9
Perfluoroheptanoic acid (PFHpA)	-	ng/L	<1.8	<1.8	<1.7	<1.9	<1.9
Perfluorononanoic acid (PFNA)	-	ng/L	<1.8	<1.8	<1.7	<1.9	<1.9
Perfluorobutanesulfonic acid (PFBS)	-	ng/L	1.2 J	0.22 J	<1.7	<1.9	<1.9
Perfluorodecanoic acid (PFDA)	-	ng/L	<1.8	<1.8	<1.7	<1.9	<1.9
Perfluoroundecanoic acid (PFUnA)	-	ng/L	<1.8	<1.8	<1.7	<1.9	<1.9
Perfluorododecanoic acid (PFDoA)	-	ng/L	<1.8	<1.8	<1.7	<1.9	<1.9
Perfluorotridecanoic acid (PFTrDA)	-	ng/L	<1.8	<1.8	<1.7	<1.9	<1.9
Perfluorotetradecanoic acid (PFTeA)	-	ng/L	<1.8	<1.8	<1.7	<1.9	<1.9
N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	-	ng/L	<4.5	<4.5	<4.3	<4.6	<4.8
N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	-	ng/L	<4.5	<4.5	<4.3	<4.6	<4.8
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	-	ng/L	<1.8	<1.8	<1.7	<1.9	<1.9
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	-	ng/L	<1.8	<1.8	<1.7	<1.9	<1.9
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	-	ng/L	<1.8	<1.8	<1.7	<1.9	<1.9
Hexafluoropropylene oxide dimer acid (HFPO-DA)	-	ng/L	<3.6	<3.6	<3.4	<3.7	<3.8
Perfluorooctanesulfonic acid (PFOS)	70†	ng/L	<1.8	<1.8	<1.7	0.64 J	<1.9
Perfluorooctanoic acid (PFOA)		ng/L	<1.8	<1.8	<1.7	<1.9	<1.9
Combined (PFOS + PFOA)	70†	ng/L	n/a	n/a	n/a	0.64 J‡	n/a

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Sample Name			PTH-145	PTH-045	PTH-146	PTH-046	PTH-049	PTH-201
Sample Date			11/10/2022		11/10/2022		11/9/2022	11/11/2022
Analyte	Action Level	Units	Field Duplicate Pair		Field Duplicate Pair		Project Sample	Project Sample
Perfluorohexanesulfonic acid (PFHxS)	-	ng/L	<1.9	<1.8	220	250	<1.8	<1.8 J*
Perfluorohexanoic acid (PFHxA)	-	ng/L	<1.9	<1.8	89	88	<1.8	<1.8 J*
Perfluoroheptanoic acid (PFHpA)	-	ng/L	<1.9	<1.8	20	21	<1.8	<1.8 J*
Perfluorononanoic acid (PFNA)	-	ng/L	<1.9	<1.8	<2.0	<1.8	<1.8	<1.8 J*
Perfluorobutanesulfonic acid (PFBS)	-	ng/L	<1.9	<1.8	110	110	<1.8	0.33 J*
Perfluorodecanoic acid (PFDA)	-	ng/L	<1.9	<1.8	<2.0	<1.8	<1.8	<1.8 J*
Perfluoroundecanoic acid (PFUnA)	-	ng/L	<1.9	<1.8	<2.0	<1.8	<1.8	<1.8 J*
Perfluorododecanoic acid (PFDoA)	-	ng/L	<1.9	<1.8	<2.0	<1.8	<1.8	<1.8 J*
Perfluorotridecanoic acid (PFTrDA)	-	ng/L	<1.9	<1.8	<2.0	<1.8	<1.8	<1.8 J*
Perfluorotetradecanoic acid (PFTeA)	-	ng/L	<1.9	<1.8	<2.0	<1.8	<1.8	<1.8 J*
N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	-	ng/L	<4.6	<4.5	<5.0	<4.5	<4.5	<4.5 J*
N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	-	ng/L	<4.6	<4.5	<5.0	<4.5	<4.5	<4.5 J*
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	-	ng/L	<1.9	<1.8	<2.0	<1.8	<1.8	<1.8 J*
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	-	ng/L	<1.9	<1.8	<2.0	<1.8	<1.8	<1.8 J*
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	-	ng/L	<1.9	<1.8	<2.0	<1.8	<1.8	<1.8 J*
Hexafluoropropylene oxide dimer acid (HFPO-DA)	-	ng/L	<3.7	<3.6	<4.0	<3.6	<3.6	<3.6 J*
Perfluorooctanesulfonic acid (PFOS)	70†	ng/L	<1.9	<1.8	32	36	<1.8	<1.8 J*
Perfluorooctanoic acid (PFOA)		ng/L	<1.9	<1.8	17	22	<1.8	<1.8 J*
Combined (PFOS + PFOA)	70†	ng/L	n/a	n/a	49	58	n/a	n/a

Notes: Results reported from Eurofins Environment Testing work order 320-94388-1.
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Sample Name			PTH-202	PTH-205	PTH-206	PTH-207	PTH-211	PTH-212
Sample Date			11/11/2022	11/11/2022	11/11/2022	11/11/2022	11/9/2022	11/10/2022
Analyte	Action Level	Units	Project Sample	Project Sample	Project Sample	Project Sample	Project Sample	Project Sample
Perfluorohexanesulfonic acid (PFHxS)	-	ng/L	4.9	7.1	<1.8	<1.7	<1.8	<1.9 J*
Perfluorohexanoic acid (PFHxA)	-	ng/L	1.7 J	9.1	<1.8	<1.7	<1.8	<1.9 J*
Perfluoroheptanoic acid (PFHpA)	-	ng/L	1.0 J	4.0	<1.8	<1.7	<1.8	<1.9 J*
Perfluorononanoic acid (PFNA)	-	ng/L	<2.1	<1.8	<1.8	<1.7	<1.8	<1.9 J*
Perfluorobutanesulfonic acid (PFBS)	-	ng/L	2.3	9.9	0.74 J	<1.7	<1.8	<1.9 J*
Perfluorodecanoic acid (PFDA)	-	ng/L	<2.1	<1.8	<1.8	<1.7	<1.8	<1.9 J*
Perfluoroundecanoic acid (PFUnA)	-	ng/L	<2.1	<1.8	<1.8	<1.7	<1.8	<1.9 J*
Perfluorododecanoic acid (PFDoA)	-	ng/L	<2.1	<1.8	<1.8	<1.7	<1.8	<1.9 J*
Perfluorotridecanoic acid (PFTrDA)	-	ng/L	<2.1	<1.8	<1.8	<1.7	<1.8	<1.9 J*
Perfluorotetradecanoic acid (PFTeA)	-	ng/L	<2.1	<1.8	<1.8	<1.7	<1.8	<1.9 J*
N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	-	ng/L	<5.2	<4.5	<4.4	<4.3	<4.5	<4.7 J*
N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	-	ng/L	<5.2	<4.5	<4.4	<4.3	<4.5	<4.7 J*
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	-	ng/L	<2.1	<1.8	<1.8	<1.7	<1.8	<1.9 J*
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	-	ng/L	<2.1	<1.8	<1.8	<1.7	<1.8	<1.9 J*
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	-	ng/L	<2.1	<1.8	<1.8	<1.7	<1.8	<1.9 J*
Hexafluoropropylene oxide dimer acid (HFPO-DA)	-	ng/L	<4.2	<3.6	<3.5	<3.5	<3.6	<3.8 J*
Perfluorooctanesulfonic acid (PFOS)	70+	ng/L	<2.1	2.9 JH*	<1.8	<1.7	<1.8	<1.9 J*
Perfluorooctanoic acid (PFOA)		ng/L	3.1	15	<1.8	<1.7	<1.8	<1.9 J*
Combined (PFOS + PFOA)	70†	ng/L	3.1 ‡	18 JH*	n/a	n/a	n/a	n/a

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			PTH-213	PTH-214
			11/10/2022	11/10/2022
Analyte	Action Level	Units	Project Sample	Project Sample
Perfluorohexanesulfonic acid (PFHxS)	-	ng/L	<1.8	<1.8
Perfluorohexanoic acid (PFHxA)	-	ng/L	<1.8	<1.8
Perfluoroheptanoic acid (PFHpA)	-	ng/L	<1.8	<1.8
Perfluorononanoic acid (PFNA)	-	ng/L	<1.8	<1.8
Perfluorobutanesulfonic acid (PFBS)	-	ng/L	0.41 J	<1.8
Perfluorodecanoic acid (PFDA)	-	ng/L	<1.8	<1.8
Perfluoroundecanoic acid (PFUnA)	-	ng/L	<1.8	<1.8
Perfluorododecanoic acid (PFDoA)	-	ng/L	<1.8	<1.8
Perfluorotridecanoic acid (PFTrDA)	-	ng/L	<1.8	<1.8
Perfluorotetradecanoic acid (PFTeA)	-	ng/L	<1.8	<1.8
N-Methyl perfluorooctane sulfonamidoacetic acid (N-MeFOSAA)	-	ng/L	<4.5	<4.5
N-Ethyl perfluorooctane sulfonamidoacetic acid (N-EtFOSAA)	-	ng/L	<4.5	<4.5
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	-	ng/L	<1.8	<1.8
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	-	ng/L	<1.8	<1.8
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	-	ng/L	<1.8	<1.8
Hexafluoropropylene oxide dimer acid (HFPO-DA)	-	ng/L	<3.6	<3.6
Perfluorooctanesulfonic acid (PFOS)	70†	ng/L	<1.8	<1.8
Perfluorooctanoic acid (PFOA)		ng/L	<1.8	<1.8
Combined (PFOS + PFOA)	70†	ng/L	n/a	n/a

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