

Client Sample Results

Client: Erie Water Works
Project/Site: UCMR5

Job ID: 810-52042-1

Client Sample ID: 00102 Wasielewski Plant EP

Lab Sample ID: 810-52042-1

Date Collected: 01/31/23 08:00

Matrix: Drinking Water

Date Received: 02/02/23 09:45

PWSID Number: PA6250028

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.0050		0.0050	ug/L		02/23/23 08:15	02/24/23 19:34	1
Perfluoropentanoic acid (PFPeA)	<0.0030		0.0030	ug/L		02/23/23 08:15	02/24/23 19:34	1
Perfluorohexanoic acid (PFHxA)	<0.0030		0.0030	ug/L		02/23/23 08:15	02/24/23 19:34	1
Perfluoroheptanoic acid (PFHpA)	<0.0030		0.0030	ug/L		02/23/23 08:15	02/24/23 19:34	1
Perfluorooctanoic acid (PFOA)	<0.0040		0.0040	ug/L		02/23/23 08:15	02/24/23 19:34	1
Perfluorononanoic acid (PFNA)	<0.0040		0.0040	ug/L		02/23/23 08:15	02/24/23 19:34	1
Perfluorodecanoic acid (PFDA)	<0.0030		0.0030	ug/L		02/23/23 08:15	02/24/23 19:34	1
Perfluoroundecanoic acid (PFUnA)	<0.0020		0.0020	ug/L		02/23/23 08:15	02/24/23 19:34	1
Perfluorododecanoic acid (PFDoA)	<0.0030		0.0030	ug/L		02/23/23 08:15	02/24/23 19:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.0030		0.0030	ug/L		02/23/23 08:15	02/24/23 19:34	1
Perfluorobutanesulfonic acid (PFBS)	<0.0030		0.0030	ug/L		02/23/23 08:15	02/24/23 19:34	1
Perfluorohexanesulfonic acid (PFHxS)	<0.0030		0.0030	ug/L		02/23/23 08:15	02/24/23 19:34	1
Perfluoroheptanesulfonic acid (PFHpS)	<0.0030		0.0030	ug/L		02/23/23 08:15	02/24/23 19:34	1
Perfluorooctanesulfonic acid (PFOS)	<0.0040		0.0040	ug/L		02/23/23 08:15	02/24/23 19:34	1
Perfluoropentanesulfonic acid (PFPeS)	<0.0040		0.0040	ug/L		02/23/23 08:15	02/24/23 19:34	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<0.0050		0.0050	ug/L		02/23/23 08:15	02/24/23 19:34	1
9-Chlorohexadecafluoro-3-oxanonan e-1-sulfonic acid	<0.0020		0.0020	ug/L		02/23/23 08:15	02/24/23 19:34	1
11-Chloroeicosafuoro-3-oxaundecan e-1-sulfonic acid	<0.0050		0.0050	ug/L		02/23/23 08:15	02/24/23 19:34	1
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	<0.0030		0.0030	ug/L		02/23/23 08:15	02/24/23 19:34	1
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS)	<0.0050		0.0050	ug/L		02/23/23 08:15	02/24/23 19:34	1
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2 FTS)	<0.0050		0.0050	ug/L		02/23/23 08:15	02/24/23 19:34	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.0200		0.0200	ug/L		02/23/23 08:15	02/24/23 19:34	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.0040		0.0040	ug/L		02/23/23 08:15	02/24/23 19:34	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.0030		0.0030	ug/L		02/23/23 08:15	02/24/23 19:34	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.0030		0.0030	ug/L		02/23/23 08:15	02/24/23 19:34	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	89		50 - 200	02/23/23 08:15	02/24/23 19:34	1
13C4 PFBA	84		50 - 200	02/23/23 08:15	02/24/23 19:34	1
13C3 PFBS	81		50 - 200	02/23/23 08:15	02/24/23 19:34	1
13C5 PFPeA	89		50 - 200	02/23/23 08:15	02/24/23 19:34	1
13C5 PFHxA	83		50 - 200	02/23/23 08:15	02/24/23 19:34	1
13C4 PFHpA	83		50 - 200	02/23/23 08:15	02/24/23 19:34	1
13C8 PFOA	83		50 - 200	02/23/23 08:15	02/24/23 19:34	1
13C9 PFNA	82		50 - 200	02/23/23 08:15	02/24/23 19:34	1
13C6 PFDA	79		50 - 200	02/23/23 08:15	02/24/23 19:34	1
13C7 PFUnA	79		50 - 200	02/23/23 08:15	02/24/23 19:34	1
13C2 PFDoA	80		50 - 200	02/23/23 08:15	02/24/23 19:34	1
13C8 PFOS	82		50 - 200	02/23/23 08:15	02/24/23 19:34	1
13C3 PFHxS	80		50 - 200	02/23/23 08:15	02/24/23 19:34	1

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PWSID Number: PA6250028

Method: EPA 533 - Perfluorinated and Polyfluorinated Alkyl Substances in Drinking Water (Continued)

<u>Isotope Dilution</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
13C2-4:2-FTS	82		50 - 200	02/23/23 08:15	02/24/23 19:34	1
13C2-6:2-FTS	87		50 - 200	02/23/23 08:15	02/24/23 19:34	1
13C2-8:2-FTS	83		50 - 200	02/23/23 08:15	02/24/23 19:34	1

Method: EPA 537.1 UCMR5 - Perfluorinated Alkyl Acids (LC/MS)

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>RL</u>	<u>Unit</u>	<u>D</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.0047		0.0047	ug/L		02/06/23 06:50	02/07/23 08:05	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.0056		0.0056	ug/L		02/06/23 06:50	02/07/23 08:05	1
Perfluorotetradecanoic acid (PFTA)	<0.0075		0.0075	ug/L		02/06/23 06:50	02/07/23 08:05	1
Perfluorotridecanoic acid (PFTrDA)	<0.0065		0.0065	ug/L		02/06/23 06:50	02/07/23 08:05	1

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
d5-NEtFOSAA	80		70 - 130	02/06/23 06:50	02/07/23 08:05	1
13C2 PFHxA	95		70 - 130	02/06/23 06:50	02/07/23 08:05	1
13C2 PFDA	90		70 - 130	02/06/23 06:50	02/07/23 08:05	1
13C3 HFPO-DA	93		70 - 130	02/06/23 06:50	02/07/23 08:05	1

Method: EPA 200.7 UCMR5 - Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Qualifier</u>	<u>RL</u>	<u>Unit</u>	<u>D</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Lithium	<9.00		9.00	ug/L		02/06/23 13:15	02/07/23 15:55	1