

Town of Peshtigo
Attn: Chairperson Jennifer Friday
W2435 Old Peshtigo Rd
Marinette, WI 54143

Arcadis U.S., Inc.
790 North Milwaukee Street
Suite 100A
Milwaukee
Wisconsin 53202
www.arcadis.com

Subject: Groundwater Sampling Results
Various Rights-of-Way, Town of Peshtigo, Wisconsin
Date: 12/12/2025

Dear Chairperson Jennifer Friday,

As you are aware, Arcadis U.S., Inc. (Arcadis) collected groundwater samples from monitoring wells located within various Rights-of-Way between October 8 and October 9, 2025. We recorded each sample's location, date, and other information and had the samples tested at an accredited, independent laboratory. That testing is now complete.

Laboratory results for these samples are summarized in the attached table. The full results from the laboratory¹ are included with this letter.

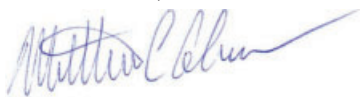
Thank you for your patience and assistance with our investigation. We will continue to provide updates to the community as our work continues.

If you have any questions or want to discuss these results further, please call the toll-free number that has been set up for this matter (800) 314-1381. Contact information for the Wisconsin Department of Natural Resources (WDNR) and Wisconsin Department of Health Services (WDHS) is provided below if you have other questions.

WDNR	Alyssa Sellwood	608-622-8606	Alyssa.Sellwood@wisconsin.gov
	http://dnr.wisconsin.gov/topic/Contaminants/PFAS.html		

WDHS	Amanda Koch	608-405-2292	Amanda.Koch@dhs.wi.gov
	http://www.dhs.wisconsin.gov/chemical/pfas.htm		

Sincerely,
Arcadis U.S., Inc.



Matthew Coleman
Project Communications Manager

Enc. Results Summary Table
Sampling Location Figure
Laboratory Results

¹ The attached preliminary laboratory report from TestAmerica Laboratories, Inc. includes sample results and summary quality control/quality assurance (QA/QC) forms associated with the samples. Pages containing sample results and associated QA/QC results that are not associated with this address have been removed from the report.

Table 1
Sampling Results
Tyco Fire Technology Center



	Wisconsin DHS Recommended Standards February 2025 (in Rulemaking/Not Yet Adopted) ⁽¹⁾	Location Sample ID Parent Sample ID Sample Date Sample Type	MW-100-32 MW-100-32 (100925) N	MW-100-68 MW-100-68 (100925) N	MW-100-88 MW-100-88 (100925) N	MW-100-88 DUP-09-LTM (100925) MW-100-88 (100925) 10/08/2025	PZ-44-73 PZ-44-73 (100925) 10/09/2025
Analyte		Units					
PFBA	--	ng/L	2.3 J	<3.6 U	1.4 J	1.1 J	0.60 J
PFPeA	--	ng/L	1.9	<1.8 U	1.2 J	1.0 J	1.3 J
PFHxA	--	ng/L	1.3 J	<1.8 U	0.82 J	0.72 J	0.42 J
PFHpA	--	ng/L	0.65 J	<1.8 U	<1.8 U	<1.9 U	<1.8 U
PFOA	4	ng/L	2.3	<1.8 U	1.3 J	1.2 J	<1.8 U
PFNA	10	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<1.8 U
PFDA	--	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<1.8 U
PFUnA	--	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	0.29 J
PFDoA	--	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<1.8 U
PFTriA	--	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<1.8 U
PFTeA	--	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<1.8 U
PFBS	2,000	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<1.8 U
PFPeS	--	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<1.8 U
PFHxS	10	ng/L	0.33 J	<1.8 U	<1.8 U	<1.9 U	<1.8 U
PFHpS	--	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<1.8 U
PFOS	4	ng/L	<1.9 U	<1.8 U	0.43 J	<1.9 U	0.64 J
PFNS	--	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<1.8 U
PFDS	--	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<1.8 U
PFDoS	--	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<1.8 U
4:2 FTS	--	ng/L	<3.7 U	<3.6 U	<3.6 U	<3.8 U	<3.7 U
6:2 FTS	--	ng/L	<3.7 U	<3.6 U	0.43 J	0.47 J	<3.7 U
8:2 FTS	--	ng/L	<3.7 U	<3.6 U	<3.6 U	<3.8 U	<3.7 U
FOSA	--	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	0.74 J
NMeFOSA	--	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<1.8 U
NEtFOSA	--	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<1.8 U
NMeFOSAA	--	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<1.8 U
NEtFOSAA	--	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<1.8 U
NMeFOSE	--	ng/L	<9.3 U	<9.1 U	<9.0 U	<9.6 U	<9.2 U
NEtFOSE	--	ng/L	<9.3 U	<9.1 U	<9.0 U	<9.6 U	<9.2 U
PFMPA	--	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<1.8 U
PFMBA	--	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<1.8 U
NFDHA	--	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<1.8 U
HFPO-DA	10	ng/L	<1.4 U	<1.4 U	<1.4 U	<1.4 U	<1.4 U
DONA	--	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<1.8 U
PFEEA	--	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<1.8 U
9CI-PF3ONS	--	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<1.8 U
11CI-PF3OUdS	--	ng/L	<1.9 U	<1.8 U	<1.8 U	<1.9 U	<1.8 U
3:3 FTCA	--	ng/L	<3.7 U	<3.6 U	<3.6 U	<3.8 U	<3.7 U
5:3 FTCA	--	ng/L	<9.3 U	<9.1 U	<9.0 U	<9.6 U	<9.2 U
7:3 FTCA	--	ng/L	<9.3 U	<9.1 U	<9.0 U	<9.6 U	<9.2 U

Analyte	Wisconsin DHS Recommended Standards February 2025 (In Rulemaking/Not Yet Adopted) ⁽¹⁾	Location Sample ID Parent Sample ID Sample Date Sample Type	PZ-72-73 PZ-72-73 (100825) N	PZ-73-16 (100825) N	PZ-73-16 (100825) FD	PZ-73-32 (100825) N	PZ-73-75 PZ-73-75 (100825) N
PFBA	--	ng/L	26	3.9	3.6 J	11	< 3.5 U
PFPeA	--	ng/L	91	4.3	4.1	10	< 1.7 U
PFHxA	--	ng/L	57	3.1	2.6	5	< 1.7 U
PFHpA	--	ng/L	29	1.1 J	1.1 J	2.9	< 1.7 U
PFOA	4	ng/L	200	2.1	2.3	4.7	< 1.7 U
PFNA	10	ng/L	13	< 1.8 U	< 1.8 U	1.1 J	< 1.7 U
PFDA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.7 U
PFUnA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.7 U
PFDoA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.7 U
PFTriA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.7 U
PFTeA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.7 U
PFBS	2,000	ng/L	2.3 J+	< 1.8 UB	0.52 J	< 1.8 UB	< 1.7 U
PFPeS	--	ng/L	2.6	< 1.8 U	< 1.8 U	< 1.8 U	< 1.7 U
PFHxS	10	ng/L	17	< 1.8 U	< 1.8 U	0.38 J	< 1.7 U
PFHpS	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.7 U
PFOS	4	ng/L	1.6 J	1.2 J	0.97 J	1.5 J	< 1.7 U
PFNS	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.7 U
PFDS	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.7 U
PFDoS	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.7 U
4:2 FTS	--	ng/L	5	< 3.6 U	< 3.7 U	< 3.7 U	< 3.5 U
6:2 FTS	--	ng/L	490	< 3.6 U	< 3.7 U	2.0 J	< 3.5 U
8:2 FTS	--	ng/L	0.91 J	< 3.6 U	< 3.7 U	< 3.7 U	< 3.5 U
FOSA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.7 U
NMeFOSA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.7 U
NEtFOSA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.7 U
NMeFOSAA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.7 U
NEFOSAA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.7 U
NEFOSE	--	ng/L	< 9.1 U	< 9.1 U	< 9.2 U	< 9.2 U	< 8.7 U
NEtFOSE	--	ng/L	< 9.1 U	< 9.1 U	< 9.2 U	< 9.2 U	< 8.7 U
PFMPA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.7 U
PFMBA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.7 U
NFDHA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.7 U
HFPO-DA	10	ng/L	< 1.4 U	< 1.4 U	< 1.4 U	< 1.4 U	< 1.3 U
DONA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.7 U
PFEESA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.7 U
9Cl-PF3ONS	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.7 U
11Cl-PF3Ouds	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.7 U
3:3 FTCA	--	ng/L	< 3.6 U	< 3.6 U	< 3.7 U	< 3.7 U	< 3.5 U
5:3 FTCA	--	ng/L	< 9.1 U	< 9.1 U	< 9.2 U	< 9.2 U	< 8.7 U
7:3 FTCA	--	ng/L	< 9.1 U	< 9.1 U	< 9.2 U	< 9.2 U	< 8.7 U

Analyte	Wisconsin DHS Recommended Standards February 2025 (In Rulemaking/Not Yet Adopted) ⁽¹⁾	Location Sample ID Parent Sample ID Sample Date Sample Type	PZ-74-32 PZ-74-32 (100925) 10/09/2025 N	PZ-74-32 DUP-07-LTM (100925) PZ-74-32 (100925) 10/09/2025 FD	PZ-74-80 PZ-74-80 (100925) 10/09/2025 N	PZ-75-18 PZ-75-18 (100925) 10/09/2025 N	PZ-83-50 PZ-83-50 (100825) 10/08/2025 N
PFBA	--	ng/L	22	23	7	17	11
PFPeA	--	ng/L	59	72	18	14	44
PFHxA	--	ng/L	43	40	11	11	26
PFHpA	--	ng/L	31	29	9.6	8.3	8.5
PFOA	4	ng/L	93	88	18	8.2	13
PFNA	10	ng/L	16	16	1.9	< 1.6 U	1.7 J
PFDA	--	ng/L	2.5	2.4	< 1.8 U	< 1.6 U	< 1.8 U
PFUnA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.6 U	< 1.8 U
PFDoA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.6 U	< 1.8 U
PFTriA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.6 U	< 1.8 U
PFTeA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.6 U	< 1.8 U
PFBS	2,000	ng/L	1.6 J	< 1.8 UB	< 1.8 U	< 1.6 UB	< 1.8 U
PFPeS	--	ng/L	1.8	1.7 J	0.28 J	< 1.6 U	0.38 J
PFHxS	10	ng/L	15	16	1.7 J	0.72 J	1.8
PFHpS	--	ng/L	0.82 J	0.86 J	< 1.8 U	< 1.6 U	< 1.8 U
PFOS	4	ng/L	39	42	1.1 J	< 1.6 UB	1.3 J
PFNS	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.6 U	< 1.8 U
PFDS	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.6 U	< 1.8 U
PFDoS	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.6 U	< 1.8 U
4:2 FTS	--	ng/L	1.2 J	1.3 J	0.41 J	< 3.2 U	< 3.6 U
6:2 FTS	--	ng/L	93	93	15	2.2 J	15
8:2 FTS	--	ng/L	46	46	0.95 J	< 3.2 U	< 3.6 U
FOSA	--	ng/L	< 1.8 U	0.86 J	< 1.8 U	< 1.6 U	< 1.8 U
NMeFOSA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.6 U	< 1.8 U
NEtFOSA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.6 U	< 1.8 U
NMeFOSAA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.6 U	< 1.8 U
NEFOSAA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.6 U	< 1.8 U
NEFOSE	--	ng/L	< 8.9 U	< 9.2 U	< 8.9 U	< 7.9 U	< 9.1 U
NEtFOSE	--	ng/L	< 8.9 U	< 9.2 U	< 8.9 U	< 7.9 U	< 9.1 U
PFMPA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.6 U	< 1.8 U
PFMBA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.6 U	< 1.8 U
NFDHA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.6 U	< 1.8 U
HFPO-DA	10	ng/L	< 1.3 U	< 1.4 U	< 1.3 U	< 1.2 U	< 1.4 U
DONA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.6 U	< 1.8 U
PFEESA	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.6 U	< 1.8 U
9Cl-PF3ONS	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.6 U	< 1.8 U
11Cl-PF3OUdS	--	ng/L	< 1.8 U	< 1.8 U	< 1.8 U	< 1.6 U	< 1.8 U
3:3 FTCA	--	ng/L	< 3.6 U	< 3.7 U	< 3.6 U	< 3.2 U	< 3.6 U
5:3 FTCA	--	ng/L	< 8.9 U	< 9.2 U	< 8.9 U	< 7.9 U	< 9.1 U
7:3 FTCA	--	ng/L	< 8.9 U	< 9.2 U	< 8.9 U	< 7.9 U	< 9.1 U

Analyte	Wisconsin DHS Recommended Standards February 2025 (In Rulemaking/Not Yet Adopted) ⁽¹⁾	Location Sample ID Parent Sample ID Sample Date Sample Type	PZ-89-40 PZ-89-40 (100825) 10/08/2025 N	TW-01 TW-01 (100825) 10/08/2025 N	TW-02 TW-02 (100825) 10/08/2025 N	TW-03 TW-03 (100825) 10/08/2025 N	TW-05 TW-05 (100825) 10/08/2025 N
PFBA	--	ng/L	1.2 J	1.3 J	8.6	6.7	< 3.8 U
PFPeA	--	ng/L	< 1.8 U	0.38 J	0.95 J	12	< 1.9 U
PFHxA	--	ng/L	0.36 J	< 1.9 U	0.56 J	6.9	< 1.9 U
PFHpA	--	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	4.5	< 1.9 U
PFOA	4	ng/L	12	< 1.9 U	2.7	9.7	< 1.9 U
PFNA	10	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	0.47 J	< 1.9 U
PFDA	--	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	< 1.8 U	< 1.9 U
PFUnA	--	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	< 1.8 U	< 1.9 U
PFDoA	--	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	< 1.8 U	< 1.9 U
PFTriA	--	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	< 1.8 U	< 1.9 U
PFTeA	--	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	< 1.8 U	< 1.9 U
PFBS	2,000	ng/L	< 1.8 U	< 1.9 U	< 1.8 UB	< 1.8 UB	< 1.9 U
PFPeS	--	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	0.29 J	< 1.9 U
PFHxS	10	ng/L	0.36 J	< 1.9 U	0.49 J	3.9	< 1.9 U
PFHpS	--	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	< 1.8 U	< 1.9 U
PFOS	4	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	1.0 J	0.91 J
PFNS	--	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	< 1.8 U	< 1.9 U
PFDS	--	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	< 1.8 U	< 1.9 U
PFDoS	--	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	< 1.8 U	< 1.9 U
4:2 FTS	--	ng/L	< 3.7 U	< 3.9 U	< 3.7 U	< 3.7 U	< 3.8 U
6:2 FTS	--	ng/L	< 3.7 U	< 3.9 U	< 3.7 U	2.1 J	< 3.8 U
8:2 FTS	--	ng/L	< 3.7 U	< 3.9 U	< 3.7 U	< 3.7 U	< 3.8 U
FOSA	--	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	< 1.8 U	< 1.9 U
NMeFOSA	--	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	< 1.8 U	< 1.9 U
NEtFOSA	--	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	< 1.8 U	< 1.9 U
NMeFOSAA	--	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	< 1.8 U	< 1.9 U
NEFOSAA	--	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	< 1.8 U	< 1.9 U
NEFOSE	--	ng/L	< 9.2 U	< 9.7 U	< 9.2 U	< 9.1 U	< 9.4 U
NEtFOSE	--	ng/L	< 9.2 U	< 9.7 U	< 9.2 U	< 9.1 U	< 9.4 U
PFMPA	--	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	< 1.8 U	< 1.9 U
PFMBA	--	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	< 1.8 U	< 1.9 U
NFDHA	--	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	< 1.8 U	< 1.9 U
HFPO-DA	10	ng/L	< 1.4 U	< 1.4 U	< 1.4 U	< 1.4 U	< 1.4 U
DONA	--	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	< 1.8 U	< 1.9 U
PFEESA	--	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	< 1.8 U	< 1.9 U
9Cl-PF3ONS	--	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	< 1.8 U	< 1.9 U
11Cl-PF3Ouds	--	ng/L	< 1.8 U	< 1.9 U	< 1.8 U	< 1.8 U	< 1.9 U
3:3 FTCA	--	ng/L	< 3.7 U	< 3.9 U	< 3.7 U	< 3.7 U	< 3.8 U
5:3 FTCA	--	ng/L	< 9.2 U	< 9.7 U	< 9.2 U	< 9.1 U	< 9.4 U
7:3 FTCA	--	ng/L	< 9.2 U	< 9.7 U	< 9.2 U	< 9.1 U	< 9.4 U

Notes:

< = Compound not detected at reporting detection limit.

1 = In February 2025, Wisconsin DHS recommended individual groundwater standards of 4 nanograms per liter (ng/L) for PFOA and PFOS, 10 ng/L for perfluorohexanesulfonic acid (PFHxS), perfluorononanoic acid (PFNA), and hexafluoropropylene oxide dimer acid (HFPO-DA), and 2,000 ng/L for perfluorobutanesulfonic acid (PFBS). Following the February 2025 WDHS recommendation, the WDNR Secretary and the Governor signed the WDNR scope statement and the WDNR has initiated the rulemaking process for these proposed groundwater standards.

-- = No standard

ng/L = nanograms per liter

J = The analyte was positively identified; however the associated numerical value is an estimated concentration only.

J+ = The result is an estimated quantity; the result may be biased high.

UB = The analyte is considered nondetect at the listed value due to associated blank contamination.

UBJ = The analyte is considered nondetect at the listed value due to the associated blank contamination. The result is an estimated maximum possible concentration.

U = The analyte was analyzed for but the result was not detected above the method detection limit.

Chemical Abbreviation:

PFBA = Perfluorobutanoic acid

PFPeA = Perfluoropentanoic acid

PFHxA = Perfluorohexanoic acid

PFHpA = Perfluoroheptanoic acid

PFOA = Perfluorooctanoic acid

PFNA = Perfluorononanoic acid

PFDA = Perfluorodecanoic acid

PFUnA = Perfluoroundecanoic acid

PFDoA = Perfluorododecanoic acid

PFTriA = Perfluorotridecanoic acid

PFTeA = Perfluorotetradecanoic acid

PFBS = Perfluorobutanesulfonic acid

PFPeS = Perfluoropentanesulfonic acid

PFHxS = Perfluorohexanesulfonic acid

PFHpS = Perfluoroheptanesulfonic acid

PFOS = Perfluorooctanesulfonic acid

PFNS = Perfluorononanesulfonic acid

PFDS = Perfluorodecanesulfonic acid

PFDoS = Perfluorododecanesulfonic acid

4:2 FTS = 4:2 Fluorotelomer sulfonic acid

6:2 FTS = 6:2 Fluorotelomer sulfonic acid

8:2 FTS = 8:2 Fluorotelomer sulfonic acid

FOSA = Perfluorooctane sulfonamide

NMeFOSA = N-Methyl perfluorooctane sulfonamide

NEtFOSA = N-Ethyl perfluorooctane sulfonamide

NMeFOSAA = N-Methyl perfluorooctane sulfonamidoacetic acid

NEtFOSAA = N-Ethyl perfluorooctane sulfonamidoacetic acid

NMeFOSE = N-Methyl perfluorooctane sulfonamidoethanol

NEtFOSE = N-Ethyl perfluorooctane sulfonamidoethanol

PFMPA = Perfluoro-3-methoxypropanoic acid

PFMBA = Perfluoro-4-methoxybutanoic acid

NFDHA = Nonafluoro-3,6-dioxahexanoic acid

HFPO-DA = Hexafluoropropylene oxide dimer acid

DONA = 4,8-Dioxa-3H-perfluorononanoic acid

PFEESA = Perfluoro(2-ethoxyethane)sulfonic acid

9Cl-PF3ONS = 9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid

11Cl-PF3OUdS = 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid

3:3 FTCA = 3-Perfluoropropyl propanoic acid

5:3 FTCA = 2H,2H,3H,3H-Perfluorooctanoic acid

7:3 FTCA = 3-Perfluoroheptyl propanoic acid



TYCO FIRE TECHNOLOGY CENTER MARINETTE, WISCONSIN
MONITORING LOCATIONS
ARCADIS FIGURE 1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276123-1

Client Sample ID: PZ-75-18 (100925)

Lab Sample ID: 500-276123-1

Date Collected: 10/09/25 15:30

Matrix: Water

Date Received: 10/11/25 08:45

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	17		3.2	0.29	ng/L		10/13/25 21:10	10/18/25 20:05	1
Perfluoropentanoic acid (PFPeA)	14		1.6	0.18	ng/L		10/13/25 21:10	10/18/25 20:05	1
Perfluorohexanoic acid (PFHxA)	11		1.6	0.21	ng/L		10/13/25 21:10	10/18/25 20:05	1
Perfluoroheptanoic acid (PFHpA)	8.3		1.6	0.27	ng/L		10/13/25 21:10	10/18/25 20:05	1
Perfluorooctanoic acid (PFOA)	8.2		1.6	0.31	ng/L		10/13/25 21:10	10/18/25 20:05	1
Perfluorononanoic acid (PFNA)	<1.6		1.6	0.36	ng/L		10/13/25 21:10	10/18/25 20:05	1
Perfluorodecanoic acid (PFDA)	<1.6		1.6	0.35	ng/L		10/13/25 21:10	10/18/25 20:05	1
Perfluoroundecanoic acid (PFUnA)	<1.6		1.6	0.18	ng/L		10/13/25 21:10	10/18/25 20:05	1
Perfluorododecanoic acid (PFDoA)	<1.6		1.6	0.44	ng/L		10/13/25 21:10	10/18/25 20:05	1
Perfluorotridecanoic acid (PFTriA)	<1.6		1.6	0.45	ng/L		10/13/25 21:10	10/18/25 20:05	1
Perfluorotetradecanoic acid (PFTeA)	<1.6		1.6	0.64	ng/L		10/13/25 21:10	10/18/25 20:05	1
Perfluorobutanesulfonic acid (PFBS)	0.64	J B	1.6	0.43	ng/L		10/13/25 21:10	10/18/25 20:05	1
Perfluoropentanesulfonic acid (PFPeS)	<1.6		1.6	0.17	ng/L		10/13/25 21:10	10/18/25 20:05	1
Perfluorohexanesulfonic acid (PFHxS)	0.72	J	1.6	0.19	ng/L		10/13/25 21:10	10/18/25 20:05	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.6		1.6	0.14	ng/L		10/13/25 21:10	10/18/25 20:05	1
Perfluorooctanesulfonic acid (PFOS)	1.3	J I	1.6	0.22	ng/L		10/13/25 21:10	10/18/25 20:05	1
Perfluorononanesulfonic acid (PFNS)	<1.6		1.6	0.25	ng/L		10/13/25 21:10	10/18/25 20:05	1
Perfluorodecanesulfonic acid (PFDS)	<1.6		1.6	0.24	ng/L		10/13/25 21:10	10/18/25 20:05	1
Perfluorododecanesulfonic acid (PFDoS)	<1.6		1.6	0.42	ng/L		10/13/25 21:10	10/18/25 20:05	1
4:2 FTS	<3.2		3.2	0.34	ng/L		10/13/25 21:10	10/18/25 20:05	1
6:2 FTS	2.2	J	3.2	0.32	ng/L		10/13/25 21:10	10/18/25 20:05	1
8:2 FTS	<3.2		3.2	0.71	ng/L		10/13/25 21:10	10/18/25 20:05	1
Perfluorooctanesulfonamide (FOSA)	<1.6		1.6	0.18	ng/L		10/13/25 21:10	10/18/25 20:05	1
NMeFOSA	<1.6		1.6	0.30	ng/L		10/13/25 21:10	10/18/25 20:05	1
NEtFOSA	<1.6		1.6	0.35	ng/L		10/13/25 21:10	10/18/25 20:05	1
NMeFOSAA	<1.6		1.6	0.28	ng/L		10/13/25 21:10	10/18/25 20:05	1
NEtFOSAA	<1.6		1.6	0.35	ng/L		10/13/25 21:10	10/18/25 20:05	1
NMeFOSE	<7.9		7.9	1.8	ng/L		10/13/25 21:10	10/18/25 20:05	1
NEtFOSE	<7.9		7.9	1.9	ng/L		10/13/25 21:10	10/18/25 20:05	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.2		1.2	0.31	ng/L		10/13/25 21:10	10/18/25 20:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.6		1.6	0.32	ng/L		10/13/25 21:10	10/18/25 20:05	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.6		1.6	0.15	ng/L		10/13/25 21:10	10/18/25 20:05	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.6		1.6	0.20	ng/L		10/13/25 21:10	10/18/25 20:05	1
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.6		1.6	0.57	ng/L		10/13/25 21:10	10/18/25 20:05	1
F-53B Major	<1.6		1.6	0.46	ng/L		10/13/25 21:10	10/18/25 20:05	1
F-53B Minor	<1.6		1.6	0.23	ng/L		10/13/25 21:10	10/18/25 20:05	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.6		1.6	0.20	ng/L		10/13/25 21:10	10/18/25 20:05	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.2		3.2	0.57	ng/L		10/13/25 21:10	10/18/25 20:05	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<7.9		7.9	1.4	ng/L		10/13/25 21:10	10/18/25 20:05	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276123-1

Client Sample ID: PZ-75-18 (100925)

Lab Sample ID: 500-276123-1

Date Collected: 10/09/25 15:30

Matrix: Water

Date Received: 10/11/25 08:45

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<7.9		7.9	0.98	ng/L		10/13/25 21:10	10/18/25 20:05	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	84.8		5 - 130				10/13/25 21:10	10/18/25 20:05	1
13C5 PFPeA	102		40 - 130				10/13/25 21:10	10/18/25 20:05	1
13C5 PFHxA	114		40 - 130				10/13/25 21:10	10/18/25 20:05	1
13C4 PFHpA	102		40 - 130				10/13/25 21:10	10/18/25 20:05	1
13C8 PFOA	89.2		40 - 130				10/13/25 21:10	10/18/25 20:05	1
13C9 PFNA	88.5		40 - 130				10/13/25 21:10	10/18/25 20:05	1
13C6 PFDA	99.7		40 - 130				10/13/25 21:10	10/18/25 20:05	1
13C7 PFUnA	94.0		30 - 130				10/13/25 21:10	10/18/25 20:05	1
13C2 PFDoA	100		10 - 130				10/13/25 21:10	10/18/25 20:05	1
13C2 PFTeDA	97.0		10 - 130				10/13/25 21:10	10/18/25 20:05	1
13C3 PFBS	82.7		40 - 135				10/13/25 21:10	10/18/25 20:05	1
13C3 PFHxS	92.8		40 - 130				10/13/25 21:10	10/18/25 20:05	1
13C8 PFOS	106		40 - 130				10/13/25 21:10	10/18/25 20:05	1
13C8 FOSA	86.4		40 - 130				10/13/25 21:10	10/18/25 20:05	1
d3-NMeFOSAA	94.6		40 - 170				10/13/25 21:10	10/18/25 20:05	1
d5-NEtFOSAA	101		25 - 135				10/13/25 21:10	10/18/25 20:05	1
M2-4:2 FTS	103		40 - 200				10/13/25 21:10	10/18/25 20:05	1
M2-6:2 FTS	81.1		40 - 200				10/13/25 21:10	10/18/25 20:05	1
M2-8:2 FTS	92.8		40 - 300				10/13/25 21:10	10/18/25 20:05	1
13C3 HFPO-DA	90.7		40 - 130				10/13/25 21:10	10/18/25 20:05	1
d7-N-MeFOSE-M	64.3		10 - 130				10/13/25 21:10	10/18/25 20:05	1
d9-N-EtFOSE-M	59.2		10 - 130				10/13/25 21:10	10/18/25 20:05	1
d5-NEtPFOSA	71.2		10 - 130				10/13/25 21:10	10/18/25 20:05	1
d3-NMePFOSA	74.0		10 - 130				10/13/25 21:10	10/18/25 20:05	1

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	0.87	J	1.7	0.47	ng/L		10/21/25 04:01	10/21/25 19:02	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 PFBS	94.8		40 - 135				10/21/25 04:01	10/21/25 19:02	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1 GW

Job ID: 500-276136-1

Client Sample ID: DUP-07-LTM (100925)

Lab Sample ID: 500-276136-4

Date Collected: 10/09/25 00:00

Matrix: Water

Date Received: 10/13/25 09:20

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	23		3.7	0.34	ng/L		10/14/25 03:53	10/16/25 20:51	1
Perfluoropentanoic acid (PFPeA)	72		1.8	0.21	ng/L		10/14/25 03:53	10/16/25 20:51	1
Perfluorohexanoic acid (PFHxA)	40		1.8	0.25	ng/L		10/14/25 03:53	10/16/25 20:51	1
Perfluoroheptanoic acid (PFHpA)	29		1.8	0.32	ng/L		10/14/25 03:53	10/16/25 20:51	1
Perfluorooctanoic acid (PFOA)	88		1.8	0.36	ng/L		10/14/25 03:53	10/16/25 20:51	1
Perfluorononanoic acid (PFNA)	16		1.8	0.42	ng/L		10/14/25 03:53	10/16/25 20:51	1
Perfluorodecanoic acid (PFDA)	2.4		1.8	0.41	ng/L		10/14/25 03:53	10/16/25 20:51	1
Perfluoroundecanoic acid (PFUnA)	<1.8		1.8	0.21	ng/L		10/14/25 03:53	10/16/25 20:51	1
Perfluorododecanoic acid (PFDoA)	<1.8		1.8	0.51	ng/L		10/14/25 03:53	10/16/25 20:51	1
Perfluorotridecanoic acid (PFTriA)	<1.8		1.8	0.53	ng/L		10/14/25 03:53	10/16/25 20:51	1
Perfluorotetradecanoic acid (PFTeA)	<1.8		1.8	0.74	ng/L		10/14/25 03:53	10/16/25 20:51	1
Perfluorobutanesulfonic acid (PFBS)	1.5	J B	1.8	0.50	ng/L		10/14/25 03:53	10/16/25 20:51	1
Perfluoropentanesulfonic acid (PFPeS)	1.7	J	1.8	0.20	ng/L		10/14/25 03:53	10/16/25 20:51	1
Perfluorohexanesulfonic acid (PFHxS)	16		1.8	0.23	ng/L		10/14/25 03:53	10/16/25 20:51	1
Perfluoroheptanesulfonic acid (PFHpS)	0.86	J	1.8	0.16	ng/L		10/14/25 03:53	10/16/25 20:51	1
Perfluorooctanesulfonic acid (PFOS)	42		1.8	0.26	ng/L		10/14/25 03:53	10/16/25 20:51	1
Perfluorononanesulfonic acid (PFNS)	<1.8		1.8	0.29	ng/L		10/14/25 03:53	10/16/25 20:51	1
Perfluorodecanesulfonic acid (PFDS)	<1.8		1.8	0.29	ng/L		10/14/25 03:53	10/16/25 20:51	1
Perfluorododecanesulfonic acid (PFDoS)	<1.8		1.8	0.49	ng/L		10/14/25 03:53	10/16/25 20:51	1
4:2 FTS	1.3	J	3.7	0.40	ng/L		10/14/25 03:53	10/16/25 20:51	1
6:2 FTS	93		3.7	0.37	ng/L		10/14/25 03:53	10/16/25 20:51	1
8:2 FTS	46		3.7	0.83	ng/L		10/14/25 03:53	10/16/25 20:51	1
Perfluorooctanesulfonamide (FOSA)	0.86	J I	1.8	0.21	ng/L		10/14/25 03:53	10/16/25 20:51	1
NMeFOSA	<1.8		1.8	0.35	ng/L		10/14/25 03:53	10/16/25 20:51	1
NEtFOSA	<1.8		1.8	0.41	ng/L		10/14/25 03:53	10/16/25 20:51	1
NMeFOSAA	<1.8		1.8	0.32	ng/L		10/14/25 03:53	10/16/25 20:51	1
NEtFOSAA	<1.8		1.8	0.41	ng/L		10/14/25 03:53	10/16/25 20:51	1
NMeFOSE	<9.2		9.2	2.1	ng/L		10/14/25 03:53	10/16/25 20:51	1
NEtFOSE	<9.2		9.2	2.2	ng/L		10/14/25 03:53	10/16/25 20:51	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.4		1.4	0.36	ng/L		10/14/25 03:53	10/16/25 20:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8		1.8	0.37	ng/L		10/14/25 03:53	10/16/25 20:51	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.8		1.8	0.18	ng/L		10/14/25 03:53	10/16/25 20:51	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.8		1.8	0.24	ng/L		10/14/25 03:53	10/16/25 20:51	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.8		1.8	0.66	ng/L		10/14/25 03:53	10/16/25 20:51	1
F-53B Major	<1.8		1.8	0.53	ng/L		10/14/25 03:53	10/16/25 20:51	1
F-53B Minor	<1.8		1.8	0.27	ng/L		10/14/25 03:53	10/16/25 20:51	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.8		1.8	0.23	ng/L		10/14/25 03:53	10/16/25 20:51	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.7		3.7	0.66	ng/L		10/14/25 03:53	10/16/25 20:51	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1 GW

Job ID: 500-276136-1

Client Sample ID: DUP-07-LTM (100925)

Lab Sample ID: 500-276136-4

Date Collected: 10/09/25 00:00

Matrix: Water

Date Received: 10/13/25 09:20

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<9.2		9.2	1.6	ng/L		10/14/25 03:53	10/16/25 20:51	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<9.2		9.2	1.1	ng/L		10/14/25 03:53	10/16/25 20:51	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	85.4		5 - 130				10/14/25 03:53	10/16/25 20:51	1
13C5 PFPeA	83.4		40 - 130				10/14/25 03:53	10/16/25 20:51	1
13C5 PFHxA	101		40 - 130				10/14/25 03:53	10/16/25 20:51	1
13C4 PFHpA	102		40 - 130				10/14/25 03:53	10/16/25 20:51	1
13C8 PFOA	98.5		40 - 130				10/14/25 03:53	10/16/25 20:51	1
13C9 PFNA	94.0		40 - 130				10/14/25 03:53	10/16/25 20:51	1
13C6 PFDA	76.1		40 - 130				10/14/25 03:53	10/16/25 20:51	1
13C7 PFUnA	65.3		30 - 130				10/14/25 03:53	10/16/25 20:51	1
13C2 PFDoA	62.9		10 - 130				10/14/25 03:53	10/16/25 20:51	1
13C2 PFTeDA	34.3		10 - 130				10/14/25 03:53	10/16/25 20:51	1
13C3 PFBS	77.4		40 - 135				10/14/25 03:53	10/16/25 20:51	1
13C3 PFHxS	82.1		40 - 130				10/14/25 03:53	10/16/25 20:51	1
13C8 PFOS	79.2		40 - 130				10/14/25 03:53	10/16/25 20:51	1
13C8 FOSA	85.6		40 - 130				10/14/25 03:53	10/16/25 20:51	1
d3-NMeFOSAA	73.6		40 - 170				10/14/25 03:53	10/16/25 20:51	1
d5-NEtFOSAA	74.0		25 - 135				10/14/25 03:53	10/16/25 20:51	1
M2-4:2 FTS	77.9		40 - 200				10/14/25 03:53	10/16/25 20:51	1
M2-6:2 FTS	62.6		40 - 200				10/14/25 03:53	10/16/25 20:51	1
M2-8:2 FTS	81.0		40 - 300				10/14/25 03:53	10/16/25 20:51	1
13C3 HFPO-DA	83.8		40 - 130				10/14/25 03:53	10/16/25 20:51	1
d7-N-MeFOSE-M	34.1		10 - 130				10/14/25 03:53	10/16/25 20:51	1
d9-N-EtFOSE-M	20.5		10 - 130				10/14/25 03:53	10/16/25 20:51	1
d5-NEtPFOSA	49.1		10 - 130				10/14/25 03:53	10/16/25 20:51	1
d3-NMePFOSA	56.6		10 - 130				10/14/25 03:53	10/16/25 20:51	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1 GW

Job ID: 500-276136-1

Client Sample ID: DUP-09-LTM (100925)

Lab Sample ID: 500-276136-5

Date Collected: 10/09/25 00:00

Matrix: Water

Date Received: 10/13/25 09:20

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.1	J	3.8	0.36	ng/L		10/14/25 03:53	10/16/25 21:08	1
Perfluoropentanoic acid (PFPeA)	1.0	J	1.9	0.22	ng/L		10/14/25 03:53	10/16/25 21:08	1
Perfluorohexanoic acid (PFHxA)	0.72	J	1.9	0.26	ng/L		10/14/25 03:53	10/16/25 21:08	1
Perfluoroheptanoic acid (PFHpA)	<1.9		1.9	0.33	ng/L		10/14/25 03:53	10/16/25 21:08	1
Perfluorooctanoic acid (PFOA)	1.2	J	1.9	0.37	ng/L		10/14/25 03:53	10/16/25 21:08	1
Perfluorononanoic acid (PFNA)	<1.9		1.9	0.43	ng/L		10/14/25 03:53	10/16/25 21:08	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9	0.42	ng/L		10/14/25 03:53	10/16/25 21:08	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9	0.22	ng/L		10/14/25 03:53	10/16/25 21:08	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9	0.53	ng/L		10/14/25 03:53	10/16/25 21:08	1
Perfluorotridecanoic acid (PFTriA)	<1.9		1.9	0.55	ng/L		10/14/25 03:53	10/16/25 21:08	1
Perfluorotetradecanoic acid (PFTeA)	<1.9		1.9	0.77	ng/L		10/14/25 03:53	10/16/25 21:08	1
Perfluorobutanesulfonic acid (PFBS)	<1.9		1.9	0.52	ng/L		10/14/25 03:53	10/16/25 21:08	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9	0.20	ng/L		10/14/25 03:53	10/16/25 21:08	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9		1.9	0.23	ng/L		10/14/25 03:53	10/16/25 21:08	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		1.9	0.17	ng/L		10/14/25 03:53	10/16/25 21:08	1
Perfluorooctanesulfonic acid (PFOS)	<1.9		1.9	0.27	ng/L		10/14/25 03:53	10/16/25 21:08	1
Perfluorononanesulfonic acid (PFNS)	<1.9		1.9	0.30	ng/L		10/14/25 03:53	10/16/25 21:08	1
Perfluorodecanesulfonic acid (PFDS)	<1.9		1.9	0.30	ng/L		10/14/25 03:53	10/16/25 21:08	1
Perfluorododecanesulfonic acid (PFDoS)	<1.9		1.9	0.51	ng/L		10/14/25 03:53	10/16/25 21:08	1
4:2 FTS	<3.8		3.8	0.42	ng/L		10/14/25 03:53	10/16/25 21:08	1
6:2 FTS	0.47	J	3.8	0.39	ng/L		10/14/25 03:53	10/16/25 21:08	1
8:2 FTS	<3.8		3.8	0.86	ng/L		10/14/25 03:53	10/16/25 21:08	1
Perfluorooctanesulfonamide (FOSA)	<1.9		1.9	0.22	ng/L		10/14/25 03:53	10/16/25 21:08	1
NMeFOSA	<1.9		1.9	0.37	ng/L		10/14/25 03:53	10/16/25 21:08	1
NEtFOSA	<1.9		1.9	0.43	ng/L		10/14/25 03:53	10/16/25 21:08	1
NMeFOSAA	<1.9		1.9	0.34	ng/L		10/14/25 03:53	10/16/25 21:08	1
NEtFOSAA	<1.9		1.9	0.42	ng/L		10/14/25 03:53	10/16/25 21:08	1
NMeFOSE	<9.6		9.6	2.2	ng/L		10/14/25 03:53	10/16/25 21:08	1
NEtFOSE	<9.6		9.6	2.3	ng/L		10/14/25 03:53	10/16/25 21:08	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.4		1.4	0.37	ng/L		10/14/25 03:53	10/16/25 21:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9	0.38	ng/L		10/14/25 03:53	10/16/25 21:08	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.9		1.9	0.18	ng/L		10/14/25 03:53	10/16/25 21:08	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.9		1.9	0.25	ng/L		10/14/25 03:53	10/16/25 21:08	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.9		1.9	0.69	ng/L		10/14/25 03:53	10/16/25 21:08	1
F-53B Major	<1.9		1.9	0.55	ng/L		10/14/25 03:53	10/16/25 21:08	1
F-53B Minor	<1.9		1.9	0.28	ng/L		10/14/25 03:53	10/16/25 21:08	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.9		1.9	0.24	ng/L		10/14/25 03:53	10/16/25 21:08	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.8		3.8	0.69	ng/L		10/14/25 03:53	10/16/25 21:08	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<9.6		9.6	1.6	ng/L		10/14/25 03:53	10/16/25 21:08	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<9.6		9.6	1.2	ng/L		10/14/25 03:53	10/16/25 21:08	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1 GW

Job ID: 500-276136-1

Client Sample ID: DUP-09-LTM (100925)

Lab Sample ID: 500-276136-5

Date Collected: 10/09/25 00:00

Matrix: Water

Date Received: 10/13/25 09:20

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	82.7		5 - 130	10/14/25 03:53	10/16/25 21:08	1
13C5 PFPeA	101		40 - 130	10/14/25 03:53	10/16/25 21:08	1
13C5 PFHxA	104		40 - 130	10/14/25 03:53	10/16/25 21:08	1
13C4 PFHpA	106		40 - 130	10/14/25 03:53	10/16/25 21:08	1
13C8 PFOA	102		40 - 130	10/14/25 03:53	10/16/25 21:08	1
13C9 PFNA	89.2		40 - 130	10/14/25 03:53	10/16/25 21:08	1
13C6 PFDA	87.0		40 - 130	10/14/25 03:53	10/16/25 21:08	1
13C7 PFUnA	80.7		30 - 130	10/14/25 03:53	10/16/25 21:08	1
13C2 PFDoA	81.1		10 - 130	10/14/25 03:53	10/16/25 21:08	1
13C2 PFTeDA	73.8		10 - 130	10/14/25 03:53	10/16/25 21:08	1
13C3 PFBS	82.5		40 - 135	10/14/25 03:53	10/16/25 21:08	1
13C3 PFHxS	90.3		40 - 130	10/14/25 03:53	10/16/25 21:08	1
13C8 PFOS	97.3		40 - 130	10/14/25 03:53	10/16/25 21:08	1
13C8 FOSA	96.2		40 - 130	10/14/25 03:53	10/16/25 21:08	1
d3-NMeFOSAA	82.9		40 - 170	10/14/25 03:53	10/16/25 21:08	1
d5-NEtFOSAA	90.0		25 - 135	10/14/25 03:53	10/16/25 21:08	1
M2-4:2 FTS	83.2		40 - 200	10/14/25 03:53	10/16/25 21:08	1
M2-6:2 FTS	81.4		40 - 200	10/14/25 03:53	10/16/25 21:08	1
M2-8:2 FTS	89.3		40 - 300	10/14/25 03:53	10/16/25 21:08	1
13C3 HFPO-DA	95.6		40 - 130	10/14/25 03:53	10/16/25 21:08	1
d7-N-MeFOSE-M	66.5		10 - 130	10/14/25 03:53	10/16/25 21:08	1
d9-N-EtFOSE-M	63.8		10 - 130	10/14/25 03:53	10/16/25 21:08	1
d5-NEtPFOSA	80.3		10 - 130	10/14/25 03:53	10/16/25 21:08	1
d3-NMePFOSA	87.3		10 - 130	10/14/25 03:53	10/16/25 21:08	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1 GW

Job ID: 500-276136-1

Client Sample ID: PZ-74-32 (100925)

Lab Sample ID: 500-276136-6

Date Collected: 10/09/25 10:30

Matrix: Water

Date Received: 10/13/25 09:20

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	22		3.6	0.33	ng/L		10/14/25 03:45	10/19/25 08:55	1
Perfluoropentanoic acid (PFPeA)	59		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 08:55	1
Perfluorohexanoic acid (PFHxA)	43		1.8	0.24	ng/L		10/14/25 03:45	10/19/25 08:55	1
Perfluoroheptanoic acid (PFHpA)	31		1.8	0.31	ng/L		10/14/25 03:45	10/19/25 08:55	1
Perfluorooctanoic acid (PFOA)	93		1.8	0.35	ng/L		10/14/25 03:45	10/19/25 08:55	1
Perfluorononanoic acid (PFNA)	16		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 08:55	1
Perfluorodecanoic acid (PFDA)	2.5		1.8	0.39	ng/L		10/14/25 03:45	10/19/25 08:55	1
Perfluoroundecanoic acid (PFUnA)	<1.8		1.8	0.20	ng/L		10/14/25 03:45	10/19/25 08:55	1
Perfluorododecanoic acid (PFDoA)	<1.8		1.8	0.49	ng/L		10/14/25 03:45	10/19/25 08:55	1
Perfluorotridecanoic acid (PFTriA)	<1.8		1.8	0.51	ng/L		10/14/25 03:45	10/19/25 08:55	1
Perfluorotetradecanoic acid (PFTeA)	<1.8		1.8	0.72	ng/L		10/14/25 03:45	10/19/25 08:55	1
Perfluoropentanesulfonic acid (PFPeS)	1.8		1.8	0.19	ng/L		10/14/25 03:45	10/19/25 08:55	1
Perfluorohexanesulfonic acid (PFHxS)	15		1.8	0.22	ng/L		10/14/25 03:45	10/19/25 08:55	1
Perfluoroheptanesulfonic acid (PFHpS)	0.82	J I	1.8	0.16	ng/L		10/14/25 03:45	10/19/25 08:55	1
Perfluorooctanesulfonic acid (PFOS)	39		1.8	0.25	ng/L		10/14/25 03:45	10/19/25 08:55	1
Perfluorononanesulfonic acid (PFNS)	<1.8		1.8	0.28	ng/L		10/14/25 03:45	10/19/25 08:55	1
Perfluorodecanesulfonic acid (PFDS)	<1.8		1.8	0.28	ng/L		10/14/25 03:45	10/19/25 08:55	1
Perfluorododecanesulfonic acid (PFDoS)	<1.8		1.8	0.47	ng/L		10/14/25 03:45	10/19/25 08:55	1
4:2 FTS	1.2	J	3.6	0.39	ng/L		10/14/25 03:45	10/19/25 08:55	1
6:2 FTS	93		3.6	0.36	ng/L		10/14/25 03:45	10/19/25 08:55	1
8:2 FTS	46		3.6	0.80	ng/L		10/14/25 03:45	10/19/25 08:55	1
Perfluorooctanesulfonamide (FOSA)	<1.8		1.8	0.20	ng/L		10/14/25 03:45	10/19/25 08:55	1
NMeFOSA	<1.8		1.8	0.34	ng/L		10/14/25 03:45	10/19/25 08:55	1
NEtFOSA	<1.8		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 08:55	1
NMeFOSAA	<1.8		1.8	0.31	ng/L		10/14/25 03:45	10/19/25 08:55	1
NEtFOSAA	<1.8		1.8	0.39	ng/L		10/14/25 03:45	10/19/25 08:55	1
NMeFOSE	<8.9		8.9	2.0	ng/L		10/14/25 03:45	10/19/25 08:55	1
NEtFOSE	<8.9		8.9	2.2	ng/L		10/14/25 03:45	10/19/25 08:55	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.3		1.3	0.35	ng/L		10/14/25 03:45	10/19/25 08:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8		1.8	0.36	ng/L		10/14/25 03:45	10/19/25 08:55	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.8		1.8	0.17	ng/L		10/14/25 03:45	10/19/25 08:55	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.8		1.8	0.23	ng/L		10/14/25 03:45	10/19/25 08:55	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.8		1.8	0.64	ng/L		10/14/25 03:45	10/19/25 08:55	1
F-53B Major	<1.8		1.8	0.52	ng/L		10/14/25 03:45	10/19/25 08:55	1
F-53B Minor	<1.8		1.8	0.26	ng/L		10/14/25 03:45	10/19/25 08:55	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.8		1.8	0.22	ng/L		10/14/25 03:45	10/19/25 08:55	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.6		3.6	0.64	ng/L		10/14/25 03:45	10/19/25 08:55	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<8.9		8.9	1.5	ng/L		10/14/25 03:45	10/19/25 08:55	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<8.9		8.9	1.1	ng/L		10/14/25 03:45	10/19/25 08:55	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1 GW

Job ID: 500-276136-1

Client Sample ID: PZ-74-32 (100925)

Lab Sample ID: 500-276136-6

Date Collected: 10/09/25 10:30

Matrix: Water

Date Received: 10/13/25 09:20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	78.9		5 - 130	10/14/25 03:45	10/19/25 08:55	1
13C5 PFPeA	98.2		40 - 130	10/14/25 03:45	10/19/25 08:55	1
13C5 PFHxA	108		40 - 130	10/14/25 03:45	10/19/25 08:55	1
13C4 PFHpA	107		40 - 130	10/14/25 03:45	10/19/25 08:55	1
13C8 PFOA	97.8		40 - 130	10/14/25 03:45	10/19/25 08:55	1
13C9 PFNA	89.9		40 - 130	10/14/25 03:45	10/19/25 08:55	1
13C6 PFDA	83.5		40 - 130	10/14/25 03:45	10/19/25 08:55	1
13C7 PFUnA	85.6		30 - 130	10/14/25 03:45	10/19/25 08:55	1
13C2 PFDoA	93.5		10 - 130	10/14/25 03:45	10/19/25 08:55	1
13C2 PFTeDA	85.6		10 - 130	10/14/25 03:45	10/19/25 08:55	1
13C3 PFBS	84.4		40 - 135	10/14/25 03:45	10/19/25 08:55	1
13C3 PFHxS	85.1		40 - 130	10/14/25 03:45	10/19/25 08:55	1
13C8 PFOS	99.4		40 - 130	10/14/25 03:45	10/19/25 08:55	1
13C8 FOSA	87.6		40 - 130	10/14/25 03:45	10/19/25 08:55	1
d3-NMeFOSAA	81.6		40 - 170	10/14/25 03:45	10/19/25 08:55	1
d5-NEtFOSAA	76.8		25 - 135	10/14/25 03:45	10/19/25 08:55	1
M2-4:2 FTS	84.9		40 - 200	10/14/25 03:45	10/19/25 08:55	1
M2-6:2 FTS	57.9		40 - 200	10/14/25 03:45	10/19/25 08:55	1
M2-8:2 FTS	77.9		40 - 300	10/14/25 03:45	10/19/25 08:55	1
13C3 HFPO-DA	96.6		40 - 130	10/14/25 03:45	10/19/25 08:55	1
d7-N-MeFOSE-M	67.1		10 - 130	10/14/25 03:45	10/19/25 08:55	1
d9-N-EtFOSE-M	58.1		10 - 130	10/14/25 03:45	10/19/25 08:55	1
d5-NEtPFOSA	63.1		10 - 130	10/14/25 03:45	10/19/25 08:55	1
d3-NMePFOSA	67.9		10 - 130	10/14/25 03:45	10/19/25 08:55	1

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	1.6	J	1.7	0.46	ng/L		10/20/25 11:45	10/22/25 03:54	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 PFBS	92.0		40 - 135				10/20/25 11:45	10/22/25 03:54	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1 GW

Job ID: 500-276136-1

Client Sample ID: MW-100-88 (100925)

Lab Sample ID: 500-276136-7

Date Collected: 10/09/25 09:45

Matrix: Water

Date Received: 10/13/25 09:20

Method: EPA 1633A - Per- and Polyfluoroalkyl Substances by LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.4	J	3.6	0.34	ng/L		10/14/25 03:45	10/19/25 09:11	1
Perfluoropentanoic acid (PFPeA)	1.2	J	1.8	0.21	ng/L		10/14/25 03:45	10/19/25 09:11	1
Perfluorohexanoic acid (PFHxA)	0.82	J	1.8	0.24	ng/L		10/14/25 03:45	10/19/25 09:11	1
Perfluoroheptanoic acid (PFHpA)	<1.8		1.8	0.31	ng/L		10/14/25 03:45	10/19/25 09:11	1
Perfluorooctanoic acid (PFOA)	1.3	J	1.8	0.35	ng/L		10/14/25 03:45	10/19/25 09:11	1
Perfluorononanoic acid (PFNA)	<1.8		1.8	0.41	ng/L		10/14/25 03:45	10/19/25 09:11	1
Perfluorodecanoic acid (PFDA)	<1.8		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 09:11	1
Perfluoroundecanoic acid (PFUnA)	<1.8		1.8	0.20	ng/L		10/14/25 03:45	10/19/25 09:11	1
Perfluorododecanoic acid (PFDoA)	<1.8		1.8	0.50	ng/L		10/14/25 03:45	10/19/25 09:11	1
Perfluorotridecanoic acid (PFTriA)	<1.8		1.8	0.52	ng/L		10/14/25 03:45	10/19/25 09:11	1
Perfluorotetradecanoic acid (PFTeA)	<1.8		1.8	0.73	ng/L		10/14/25 03:45	10/19/25 09:11	1
Perfluorobutanesulfonic acid (PFBS)	<1.8		1.8	0.49	ng/L		10/14/25 03:45	10/19/25 09:11	1
Perfluoropentanesulfonic acid (PFPeS)	<1.8		1.8	0.19	ng/L		10/14/25 03:45	10/19/25 09:11	1
Perfluorohexanesulfonic acid (PFHxS)	<1.8		1.8	0.22	ng/L		10/14/25 03:45	10/19/25 09:11	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.8		1.8	0.16	ng/L		10/14/25 03:45	10/19/25 09:11	1
Perfluorooctanesulfonic acid (PFOS)	0.43	J	1.8	0.25	ng/L		10/14/25 03:45	10/19/25 09:11	1
Perfluorononanesulfonic acid (PFNS)	<1.8		1.8	0.28	ng/L		10/14/25 03:45	10/19/25 09:11	1
Perfluorodecanesulfonic acid (PFDS)	<1.8		1.8	0.28	ng/L		10/14/25 03:45	10/19/25 09:11	1
Perfluorododecanesulfonic acid (PFDoS)	<1.8		1.8	0.48	ng/L		10/14/25 03:45	10/19/25 09:11	1
4:2 FTS	<3.6		3.6	0.40	ng/L		10/14/25 03:45	10/19/25 09:11	1
6:2 FTS	0.43	J	3.6	0.37	ng/L		10/14/25 03:45	10/19/25 09:11	1
8:2 FTS	<3.6		3.6	0.81	ng/L		10/14/25 03:45	10/19/25 09:11	1
Perfluorooctanesulfonamide (FOSA)	<1.8		1.8	0.20	ng/L		10/14/25 03:45	10/19/25 09:11	1
NMeFOSA	<1.8		1.8	0.35	ng/L		10/14/25 03:45	10/19/25 09:11	1
NEtFOSA	<1.8		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 09:11	1
NMeFOSAA	<1.8		1.8	0.32	ng/L		10/14/25 03:45	10/19/25 09:11	1
NEtFOSAA	<1.8		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 09:11	1
NMeFOSE	<9.0		9.0	2.1	ng/L		10/14/25 03:45	10/19/25 09:11	1
NEtFOSE	<9.0		9.0	2.2	ng/L		10/14/25 03:45	10/19/25 09:11	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.4		1.4	0.35	ng/L		10/14/25 03:45	10/19/25 09:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8		1.8	0.36	ng/L		10/14/25 03:45	10/19/25 09:11	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.8		1.8	0.17	ng/L		10/14/25 03:45	10/19/25 09:11	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.8		1.8	0.23	ng/L		10/14/25 03:45	10/19/25 09:11	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.8		1.8	0.65	ng/L		10/14/25 03:45	10/19/25 09:11	1
F-53B Major	<1.8		1.8	0.52	ng/L		10/14/25 03:45	10/19/25 09:11	1
F-53B Minor	<1.8		1.8	0.27	ng/L		10/14/25 03:45	10/19/25 09:11	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.8		1.8	0.23	ng/L		10/14/25 03:45	10/19/25 09:11	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.6		3.6	0.65	ng/L		10/14/25 03:45	10/19/25 09:11	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<9.0		9.0	1.6	ng/L		10/14/25 03:45	10/19/25 09:11	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<9.0		9.0	1.1	ng/L		10/14/25 03:45	10/19/25 09:11	1

Eurofins Chicago

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1 GW

Job ID: 500-276136-1

Client Sample ID: MW-100-88 (100925)

Lab Sample ID: 500-276136-7

Date Collected: 10/09/25 09:45

Matrix: Water

Date Received: 10/13/25 09:20

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	82.3		5 - 130	10/14/25 03:45	10/19/25 09:11	1
13C5 PFPeA	90.2		40 - 130	10/14/25 03:45	10/19/25 09:11	1
13C5 PFHxA	106		40 - 130	10/14/25 03:45	10/19/25 09:11	1
13C4 PFHpA	110		40 - 130	10/14/25 03:45	10/19/25 09:11	1
13C8 PFOA	81.4		40 - 130	10/14/25 03:45	10/19/25 09:11	1
13C9 PFNA	89.7		40 - 130	10/14/25 03:45	10/19/25 09:11	1
13C6 PFDA	88.1		40 - 130	10/14/25 03:45	10/19/25 09:11	1
13C7 PFUnA	82.5		30 - 130	10/14/25 03:45	10/19/25 09:11	1
13C2 PFDoA	82.8		10 - 130	10/14/25 03:45	10/19/25 09:11	1
13C2 PFTeDA	72.2		10 - 130	10/14/25 03:45	10/19/25 09:11	1
13C3 PFBS	85.2		40 - 135	10/14/25 03:45	10/19/25 09:11	1
13C3 PFHxS	93.5		40 - 130	10/14/25 03:45	10/19/25 09:11	1
13C8 PFOS	104		40 - 130	10/14/25 03:45	10/19/25 09:11	1
13C8 FOSA	89.3		40 - 130	10/14/25 03:45	10/19/25 09:11	1
d3-NMeFOSAA	76.9		40 - 170	10/14/25 03:45	10/19/25 09:11	1
d5-NEtFOSAA	84.2		25 - 135	10/14/25 03:45	10/19/25 09:11	1
M2-4:2 FTS	78.9		40 - 200	10/14/25 03:45	10/19/25 09:11	1
M2-6:2 FTS	71.1		40 - 200	10/14/25 03:45	10/19/25 09:11	1
M2-8:2 FTS	79.5		40 - 300	10/14/25 03:45	10/19/25 09:11	1
13C3 HFPO-DA	89.2		40 - 130	10/14/25 03:45	10/19/25 09:11	1
d7-N-MeFOSE-M	60.1		10 - 130	10/14/25 03:45	10/19/25 09:11	1
d9-N-EtFOSE-M	56.8		10 - 130	10/14/25 03:45	10/19/25 09:11	1
d5-NEtPFOSA	77.4		10 - 130	10/14/25 03:45	10/19/25 09:11	1
d3-NMePFOSA	78.7		10 - 130	10/14/25 03:45	10/19/25 09:11	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: TW72-73 4100(259

Lab Sample ID: 500-276137-2

Date Collected: 10/01/25 1v:05

) atM: x atem

Date Received: 10/13/25 0E:20

) etPod: ATy 1633y - TeM and Tolf WuomAl. f l Substances bf LC/) S/) S

y nalf te	Result	8 ualiieM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
TeMuoMbutanoic acid 4TUHy 9	26		3.6	0.34	ng/L		10/14/25 03:45	10/19/25 03:43	1
TeMuoMpentanoic acid 4TUTey 9	E1		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 03:43	1
TeMuoMPeranoic acid 4TUOr y 9	57		1.8	0.25	ng/L		10/14/25 03:45	10/19/25 03:43	1
TeMuoMPeptanoic acid 4TUOpy 9	2E		1.8	0.32	ng/L		10/14/25 03:45	10/19/25 03:43	1
TeMuoMoctanoic acid 4TUJ y 9	200		1.8	0.36	ng/L		10/14/25 03:45	10/19/25 03:43	1
TeMuoMnonanoic acid 4TUZy 9	13		1.8	0.41	ng/L		10/14/25 03:45	10/19/25 03:43	1
Perfluorodecanoic acid (PFDA)	<1.8		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 03:43	1
Perfluoroundecanoic acid (PFUnA)	<1.8		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 03:43	1
Perfluorododecanoic acid (PFDoA)	<1.8		1.8	0.51	ng/L		10/14/25 03:45	10/19/25 03:43	1
Perfluorotridecanoic acid (PFTriA)	<1.8		1.8	0.53	ng/L		10/14/25 03:45	10/19/25 03:43	1
Perfluorotetradecanoic acid (PFTeA)	<1.8		1.8	0.74	ng/L		10/14/25 03:45	10/19/25 03:43	1
TeMuoMbutanesulfonic acid 4TUHS9	2B H		1.8	0.49	ng/L		10/14/25 03:45	10/19/25 03:43	1
TeMuoMpentanesulfonic acid 4TUTeS9	2B		1.8	0.19	ng/L		10/14/25 03:45	10/19/25 03:43	1
TeMuoMPeranesulfonic acid 4TUOr S9	17		1.8	0.22	ng/L		10/14/25 03:45	10/19/25 03:43	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.8		1.8	0.16	ng/L		10/14/25 03:45	10/19/25 03:43	1
TeMuoMoctanesulfonic acid 4TUJ S9	1B z		1.8	0.25	ng/L		10/14/25 03:45	10/19/25 03:43	1
Perfluorononanesulfonic acid (PFNS)	<1.8		1.8	0.28	ng/L		10/14/25 03:45	10/19/25 03:43	1
Perfluorodecanesulfonic acid (PFDS)	<1.8		1.8	0.28	ng/L		10/14/25 03:45	10/19/25 03:43	1
Perfluorododecanesulfonic acid (PFDoS)	<1.8		1.8	0.48	ng/L		10/14/25 03:45	10/19/25 03:43	1
v:2 UNS	5B		3.6	0.40	ng/L		10/14/25 03:45	10/19/25 03:43	1
6:2 UNS	vE0		3.6	0.37	ng/L		10/14/25 03:45	10/19/25 03:43	1
(:2 UNS	0E1 z		3.6	0.82	ng/L		10/14/25 03:45	10/19/25 03:43	1
Perfluorooctanesulfonamide (FOSA)	<1.8		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 03:43	1
NMeFOSA	<1.8		1.8	0.35	ng/L		10/14/25 03:45	10/19/25 03:43	1
NEtFOSA	<1.8		1.8	0.41	ng/L		10/14/25 03:45	10/19/25 03:43	1
NMeFOSAA	<1.8		1.8	0.32	ng/L		10/14/25 03:45	10/19/25 03:43	1
NEtFOSAA	<1.8		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 03:43	1
NMeFOSE	<9.1		9.1	2.1	ng/L		10/14/25 03:45	10/19/25 03:43	1
NEtFOSE	<9.1		9.1	2.2	ng/L		10/14/25 03:45	10/19/25 03:43	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.4		1.4	0.36	ng/L		10/14/25 03:45	10/19/25 03:43	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8		1.8	0.36	ng/L		10/14/25 03:45	10/19/25 03:43	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.8		1.8	0.17	ng/L		10/14/25 03:45	10/19/25 03:43	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.8		1.8	0.24	ng/L		10/14/25 03:45	10/19/25 03:43	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.8		1.8	0.66	ng/L		10/14/25 03:45	10/19/25 03:43	1
F-53B Major	<1.8		1.8	0.53	ng/L		10/14/25 03:45	10/19/25 03:43	1
F-53B Minor	<1.8		1.8	0.27	ng/L		10/14/25 03:45	10/19/25 03:43	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.8		1.8	0.23	ng/L		10/14/25 03:45	10/19/25 03:43	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.6		3.6	0.66	ng/L		10/14/25 03:45	10/19/25 03:43	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<9.1		9.1	1.6	ng/L		10/14/25 03:45	10/19/25 03:43	1

Eurofins Chicago

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: TW72-73 4100(259

Lab Sample ID: 500-276137-2

Date Collected: 10/01/25 1v:05

) atNr: x atem

Date Received: 10/13/25 0E:20

) etPod: ATy 1633y - TeM and Tolf HuoMal. f l Substances bf LC/) S/) S 4Continued9

y nalf te	Result	8 ualikieM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<9.1		9.1	1.1	ng/L		10/14/25 03:45	10/19/25 03:43	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFBA	81.9		5 - 130	10/14/25 03:45	10/19/25 03:43	1			
13C5 PFPeA	100		40 - 130	10/14/25 03:45	10/19/25 03:43	1			
13C5 PFHxA	123		40 - 130	10/14/25 03:45	10/19/25 03:43	1			
13C4 PFHpA	96.8		40 - 130	10/14/25 03:45	10/19/25 03:43	1			
13C8 PFOA	86.5		40 - 130	10/14/25 03:45	10/19/25 03:43	1			
13C9 PFNA	95.3		40 - 130	10/14/25 03:45	10/19/25 03:43	1			
13C6 PFDA	83.3		40 - 130	10/14/25 03:45	10/19/25 03:43	1			
13C7 PFUnA	72.1		30 - 130	10/14/25 03:45	10/19/25 03:43	1			
13C2 PFDoA	80.9		10 - 130	10/14/25 03:45	10/19/25 03:43	1			
13C2 PFTeDA	80.4		10 - 130	10/14/25 03:45	10/19/25 03:43	1			
13C3 PFBS	89.1		40 - 135	10/14/25 03:45	10/19/25 03:43	1			
13C3 PFHxS	94.2		40 - 130	10/14/25 03:45	10/19/25 03:43	1			
13C8 PFOS	99.6		40 - 130	10/14/25 03:45	10/19/25 03:43	1			
13C8 FOSA	88.2		40 - 130	10/14/25 03:45	10/19/25 03:43	1			
d3-NMeFOSAA	83.3		40 - 170	10/14/25 03:45	10/19/25 03:43	1			
d5-NEtFOSAA	87.8		25 - 135	10/14/25 03:45	10/19/25 03:43	1			
M2-4:2 FTS	102		40 - 200	10/14/25 03:45	10/19/25 03:43	1			
M2-6:2 FTS	77.3		40 - 200	10/14/25 03:45	10/19/25 03:43	1			
M2-8:2 FTS	98.3		40 - 300	10/14/25 03:45	10/19/25 03:43	1			
13C3 HFPO-DA	95.4		40 - 130	10/14/25 03:45	10/19/25 03:43	1			
d7-N-MeFOSE-M	70.2		10 - 130	10/14/25 03:45	10/19/25 03:43	1			
d9-N-EtFOSE-M	65.4		10 - 130	10/14/25 03:45	10/19/25 03:43	1			
d5-NEtPFOSA	85.7		10 - 130	10/14/25 03:45	10/19/25 03:43	1			
d3-NMePFOSA	83.7		10 - 130	10/14/25 03:45	10/19/25 03:43	1			

) etPod: ATy 1633y - TeM and Tolf HuoMal. f l Substances bf LC/) S/) S - RA

y nalf te	Result	8 ualikieM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
TeMuoMbutanesulfonic acid 4UHS9	216		1.8	0.50	ng/L		10/21/25 04:01	10/21/25 23:08	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C3 PFBS	101		40 - 135	10/21/25 04:01	10/21/25 23:08	1			

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: TW73-75 4100(259

Lab Sample ID: 500-276137-3

Date Collected: 10/01/25 1v:35

) atNr: x atem

Date Received: 10/13/25 0E:20

) etPod: ATy 1633y - TeM and Tolf WuolMal. f l Substances bf LC/) S/) S

y nalf te	Result	8 ualiieM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
Perfluorobutanoic acid (PFBA)	<3.5		3.5	0.32	ng/L		10/14/25 03:45	10/19/25 04:00	1
Perfluoropentanoic acid (PFPeA)	<1.7		1.7	0.20	ng/L		10/14/25 03:45	10/19/25 04:00	1
Perfluorohexanoic acid (PFHxA)	<1.7		1.7	0.23	ng/L		10/14/25 03:45	10/19/25 04:00	1
Perfluoroheptanoic acid (PFHpA)	<1.7		1.7	0.30	ng/L		10/14/25 03:45	10/19/25 04:00	1
Perfluorooctanoic acid (PFOA)	<1.7		1.7	0.34	ng/L		10/14/25 03:45	10/19/25 04:00	1
Perfluorononanoic acid (PFNA)	<1.7		1.7	0.39	ng/L		10/14/25 03:45	10/19/25 04:00	1
Perfluorodecanoic acid (PFDA)	<1.7		1.7	0.38	ng/L		10/14/25 03:45	10/19/25 04:00	1
Perfluoroundecanoic acid (PFUnA)	<1.7		1.7	0.20	ng/L		10/14/25 03:45	10/19/25 04:00	1
Perfluorododecanoic acid (PFDoA)	<1.7		1.7	0.48	ng/L		10/14/25 03:45	10/19/25 04:00	1
Perfluorotridecanoic acid (PFTriA)	<1.7		1.7	0.50	ng/L		10/14/25 03:45	10/19/25 04:00	1
Perfluorotetradecanoic acid (PFTeA)	<1.7		1.7	0.70	ng/L		10/14/25 03:45	10/19/25 04:00	1
Perfluorobutanesulfonic acid (PFBS)	<1.7		1.7	0.47	ng/L		10/14/25 03:45	10/19/25 04:00	1
Perfluoropentanesulfonic acid (PFPeS)	<1.7		1.7	0.19	ng/L		10/14/25 03:45	10/19/25 04:00	1
Perfluorohexanesulfonic acid (PFHxS)	<1.7		1.7	0.21	ng/L		10/14/25 03:45	10/19/25 04:00	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.7		1.7	0.15	ng/L		10/14/25 03:45	10/19/25 04:00	1
Perfluorooctanesulfonic acid (PFOS)	<1.7		1.7	0.24	ng/L		10/14/25 03:45	10/19/25 04:00	1
Perfluorononanesulfonic acid (PFNS)	<1.7		1.7	0.27	ng/L		10/14/25 03:45	10/19/25 04:00	1
Perfluorodecanesulfonic acid (PFDS)	<1.7		1.7	0.27	ng/L		10/14/25 03:45	10/19/25 04:00	1
Perfluorododecanesulfonic acid (PFDoS)	<1.7		1.7	0.46	ng/L		10/14/25 03:45	10/19/25 04:00	1
4:2 FTS	<3.5		3.5	0.38	ng/L		10/14/25 03:45	10/19/25 04:00	1
6:2 FTS	<3.5		3.5	0.35	ng/L		10/14/25 03:45	10/19/25 04:00	1
8:2 FTS	<3.5		3.5	0.78	ng/L		10/14/25 03:45	10/19/25 04:00	1
Perfluorooctanesulfonamide (FOSA)	<1.7		1.7	0.20	ng/L		10/14/25 03:45	10/19/25 04:00	1
NMeFOSA	<1.7		1.7	0.34	ng/L		10/14/25 03:45	10/19/25 04:00	1
NEtFOSA	<1.7		1.7	0.39	ng/L		10/14/25 03:45	10/19/25 04:00	1
NMeFOSAA	<1.7		1.7	0.30	ng/L		10/14/25 03:45	10/19/25 04:00	1
NEtFOSAA	<1.7		1.7	0.38	ng/L		10/14/25 03:45	10/19/25 04:00	1
NMeFOSE	<8.7		8.7	2.0	ng/L		10/14/25 03:45	10/19/25 04:00	1
NEtFOSE	<8.7		8.7	2.1	ng/L		10/14/25 03:45	10/19/25 04:00	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.3		1.3	0.34	ng/L		10/14/25 03:45	10/19/25 04:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.7		1.7	0.35	ng/L		10/14/25 03:45	10/19/25 04:00	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.7		1.7	0.17	ng/L		10/14/25 03:45	10/19/25 04:00	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.7		1.7	0.22	ng/L		10/14/25 03:45	10/19/25 04:00	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.7		1.7	0.63	ng/L		10/14/25 03:45	10/19/25 04:00	1
F-53B Major	<1.7		1.7	0.50	ng/L		10/14/25 03:45	10/19/25 04:00	1
F-53B Minor	<1.7		1.7	0.26	ng/L		10/14/25 03:45	10/19/25 04:00	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.7		1.7	0.22	ng/L		10/14/25 03:45	10/19/25 04:00	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.5		3.5	0.63	ng/L		10/14/25 03:45	10/19/25 04:00	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<8.7		8.7	1.5	ng/L		10/14/25 03:45	10/19/25 04:00	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<8.7		8.7	1.1	ng/L		10/14/25 03:45	10/19/25 04:00	1

Eurofins Chicago

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: TW73-75 4100(259

Lab Sample ID: 500-276137-3

Date Collected: 10/01/25 1v:35

) atNr: x ateM

Date Received: 10/13/25 0E:20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	86.4		5 - 130	10/14/25 03:45	10/19/25 04:00	1
13C5 PFPeA	94.3		40 - 130	10/14/25 03:45	10/19/25 04:00	1
13C5 PFHxA	100		40 - 130	10/14/25 03:45	10/19/25 04:00	1
13C4 PFHpA	114		40 - 130	10/14/25 03:45	10/19/25 04:00	1
13C8 PFOA	101		40 - 130	10/14/25 03:45	10/19/25 04:00	1
13C9 PFNA	104		40 - 130	10/14/25 03:45	10/19/25 04:00	1
13C6 PFDA	92.7		40 - 130	10/14/25 03:45	10/19/25 04:00	1
13C7 PFUnA	78.3		30 - 130	10/14/25 03:45	10/19/25 04:00	1
13C2 PFDoA	71.0		10 - 130	10/14/25 03:45	10/19/25 04:00	1
13C2 PFTeDA	81.9		10 - 130	10/14/25 03:45	10/19/25 04:00	1
13C3 PFBS	85.5		40 - 135	10/14/25 03:45	10/19/25 04:00	1
13C3 PFHxS	94.6		40 - 130	10/14/25 03:45	10/19/25 04:00	1
13C8 PFOS	113		40 - 130	10/14/25 03:45	10/19/25 04:00	1
13C8 FOSA	91.3		40 - 130	10/14/25 03:45	10/19/25 04:00	1
d3-NMeFOSAA	88.3		40 - 170	10/14/25 03:45	10/19/25 04:00	1
d5-NEtFOSAA	90.8		25 - 135	10/14/25 03:45	10/19/25 04:00	1
M2-4:2 FTS	71.3		40 - 200	10/14/25 03:45	10/19/25 04:00	1
M2-6:2 FTS	65.8		40 - 200	10/14/25 03:45	10/19/25 04:00	1
M2-8:2 FTS	94.8		40 - 300	10/14/25 03:45	10/19/25 04:00	1
13C3 HFPO-DA	101		40 - 130	10/14/25 03:45	10/19/25 04:00	1
d7-N-MeFOSE-M	73.8		10 - 130	10/14/25 03:45	10/19/25 04:00	1
d9-N-EtFOSE-M	70.0		10 - 130	10/14/25 03:45	10/19/25 04:00	1
d5-NEtPFOSA	76.9		10 - 130	10/14/25 03:45	10/19/25 04:00	1
d3-NMePFOSA	77.9		10 - 130	10/14/25 03:45	10/19/25 04:00	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: Nx -03 4100(259

Lab Sample ID: 500-276137-v

Date Collected: 10/01/25 15:00

) atNr: x ateM

Date Received: 10/13/25 0E:20

) etPod: ATy 1633y - TeM and Tolf WuomAl. f l Substances bf LC/) S/) S

y nalf te	Result	8 ualiieM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
TeMuoMbutanoic acid 4TUHy9	6F7		3.7	0.34	ng/L		10/14/25 03:45	10/19/25 04:16	1
TeMuoMpentanoic acid 4UTey9	12		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 04:16	1
TeMuoMPeranoic acid 4UOry9	6FE		1.8	0.25	ng/L		10/14/25 03:45	10/19/25 04:16	1
TeMuoMPeptanoic acid 4UOpy9	vF5		1.8	0.32	ng/L		10/14/25 03:45	10/19/25 04:16	1
TeMuoMoctanoic acid 4UJy9	EF7		1.8	0.36	ng/L		10/14/25 03:45	10/19/25 04:16	1
TeMuoMnonanoic acid 4UZy9	0R7 z		1.8	0.41	ng/L		10/14/25 03:45	10/19/25 04:16	1
Perfluorodecanoic acid (PFDA)	<1.8		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 04:16	1
Perfluoroundecanoic acid (PFUnA)	<1.8		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 04:16	1
Perfluorododecanoic acid (PFDoA)	<1.8		1.8	0.51	ng/L		10/14/25 03:45	10/19/25 04:16	1
Perfluorotridecanoic acid (PFTriA)	<1.8		1.8	0.53	ng/L		10/14/25 03:45	10/19/25 04:16	1
Perfluorotetradecanoic acid (PFTeA)	<1.8		1.8	0.74	ng/L		10/14/25 03:45	10/19/25 04:16	1
TeMuoMbutanesulfonic acid 4UHS9	0F5 z H		1.8	0.49	ng/L		10/14/25 03:45	10/19/25 04:16	1
TeMuoMpentanesulfonic acid 4UTEs9	0FE z		1.8	0.19	ng/L		10/14/25 03:45	10/19/25 04:16	1
TeMuoMPeranesulfonic acid 4UOrS9	3FE		1.8	0.22	ng/L		10/14/25 03:45	10/19/25 04:16	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.8		1.8	0.16	ng/L		10/14/25 03:45	10/19/25 04:16	1
TeMuoMoctanesulfonic acid 4UJ S9	1R z		1.8	0.25	ng/L		10/14/25 03:45	10/19/25 04:16	1
Perfluorononanesulfonic acid (PFNS)	<1.8		1.8	0.28	ng/L		10/14/25 03:45	10/19/25 04:16	1
Perfluorodecanesulfonic acid (PFDS)	<1.8		1.8	0.28	ng/L		10/14/25 03:45	10/19/25 04:16	1
Perfluorododecanesulfonic acid (PFDoS)	<1.8		1.8	0.48	ng/L		10/14/25 03:45	10/19/25 04:16	1
4:2 FTS	<3.7		3.7	0.40	ng/L		10/14/25 03:45	10/19/25 04:16	1
6:2 UNS	2F z		3.7	0.37	ng/L		10/14/25 03:45	10/19/25 04:16	1
8:2 FTS	<3.7		3.7	0.82	ng/L		10/14/25 03:45	10/19/25 04:16	1
Perfluorooctanesulfonamide (FOSA)	<1.8		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 04:16	1
NMeFOSA	<1.8		1.8	0.35	ng/L		10/14/25 03:45	10/19/25 04:16	1
NEtFOSA	<1.8		1.8	0.41	ng/L		10/14/25 03:45	10/19/25 04:16	1
NMeFOSAA	<1.8		1.8	0.32	ng/L		10/14/25 03:45	10/19/25 04:16	1
NEtFOSAA	<1.8		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 04:16	1
NMeFOSE	<9.1		9.1	2.1	ng/L		10/14/25 03:45	10/19/25 04:16	1
NEtFOSE	<9.1		9.1	2.2	ng/L		10/14/25 03:45	10/19/25 04:16	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.4		1.4	0.36	ng/L		10/14/25 03:45	10/19/25 04:16	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8		1.8	0.37	ng/L		10/14/25 03:45	10/19/25 04:16	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.8		1.8	0.17	ng/L		10/14/25 03:45	10/19/25 04:16	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.8		1.8	0.24	ng/L		10/14/25 03:45	10/19/25 04:16	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.8		1.8	0.66	ng/L		10/14/25 03:45	10/19/25 04:16	1
F-53B Major	<1.8		1.8	0.53	ng/L		10/14/25 03:45	10/19/25 04:16	1
F-53B Minor	<1.8		1.8	0.27	ng/L		10/14/25 03:45	10/19/25 04:16	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.8		1.8	0.23	ng/L		10/14/25 03:45	10/19/25 04:16	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.7		3.7	0.66	ng/L		10/14/25 03:45	10/19/25 04:16	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<9.1		9.1	1.6	ng/L		10/14/25 03:45	10/19/25 04:16	1

Eurofins Chicago

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: Nx -03 4100(259

Lab Sample ID: 500-276137-v

Date Collected: 10/01/25 15:00

) atNr : x ateM

Date Received: 10/13/25 0E:20

) etPod: ATy 1633y - TeM and Tolf HuoMal. f l Substances bf LC/) S/) S 4Continued9

y nalf te	Result	8 ualikeM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<9.1		9.1	1.1	ng/L		10/14/25 03:45	10/19/25 04:16	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	83.7		5 - 130				10/14/25 03:45	10/19/25 04:16	1
13C5 PFPeA	98.5		40 - 130				10/14/25 03:45	10/19/25 04:16	1
13C5 PFHxA	112		40 - 130				10/14/25 03:45	10/19/25 04:16	1
13C4 PFHpA	104		40 - 130				10/14/25 03:45	10/19/25 04:16	1
13C8 PFOA	88.3		40 - 130				10/14/25 03:45	10/19/25 04:16	1
13C9 PFNA	94.3		40 - 130				10/14/25 03:45	10/19/25 04:16	1
13C6 PFDA	83.9		40 - 130				10/14/25 03:45	10/19/25 04:16	1
13C7 PFUnA	89.0		30 - 130				10/14/25 03:45	10/19/25 04:16	1
13C2 PFDoA	72.2		10 - 130				10/14/25 03:45	10/19/25 04:16	1
13C2 PFTeDA	72.6		10 - 130				10/14/25 03:45	10/19/25 04:16	1
13C3 PFBS	92.8		40 - 135				10/14/25 03:45	10/19/25 04:16	1
13C3 PFHxS	94.6		40 - 130				10/14/25 03:45	10/19/25 04:16	1
13C8 PFOS	92.7		40 - 130				10/14/25 03:45	10/19/25 04:16	1
13C8 FOSA	82.8		40 - 130				10/14/25 03:45	10/19/25 04:16	1
d3-NMeFOSAA	70.2		40 - 170				10/14/25 03:45	10/19/25 04:16	1
d5-NEtFOSAA	80.0		25 - 135				10/14/25 03:45	10/19/25 04:16	1
M2-4:2 FTS	79.0		40 - 200				10/14/25 03:45	10/19/25 04:16	1
M2-6:2 FTS	81.1		40 - 200				10/14/25 03:45	10/19/25 04:16	1
M2-8:2 FTS	87.5		40 - 300				10/14/25 03:45	10/19/25 04:16	1
13C3 HFPO-DA	93.1		40 - 130				10/14/25 03:45	10/19/25 04:16	1
d7-N-MeFOSE-M	64.5		10 - 130				10/14/25 03:45	10/19/25 04:16	1
d9-N-EtFOSE-M	60.1		10 - 130				10/14/25 03:45	10/19/25 04:16	1
d5-NEtPFOSA	62.2		10 - 130				10/14/25 03:45	10/19/25 04:16	1
d3-NMePFOSA	61.5		10 - 130				10/14/25 03:45	10/19/25 04:16	1

) etPod: ATy 1633y - TeM and Tolf HuoMal. f l Substances bf LC/) S/) S - RA

y nalf te	Result	8 ualikeM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
TeMuoMbutanesulfonic acid 4UHS9	0.6(z		1.9	0.52	ng/L		10/21/25 04:01	10/22/25 00:14	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 PFBS	97.6		40 - 135				10/21/25 04:01	10/22/25 00:14	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: TW73-32 4100(259

Lab Sample ID: 500-276137-5

Date Collected: 10/01/25 15:15

) atNr: x ateM

Date Received: 10/13/25 0E:20

) etPod: ATy 1633y - TeM and Tolf WuomAl. f l Substances bf LC/) S/) S

y nalf te	Result	8 ualiieM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
TeMuoMbutanoic acid 4TUHy 9	11		3.7	0.34	ng/L		10/14/25 03:45	10/19/25 04:33	1
TeMuoMpentanoic acid 4TUTey 9	10		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 04:33	1
TeMuoMPeranoic acid 4TUOr y 9	5R		1.8	0.25	ng/L		10/14/25 03:45	10/19/25 04:33	1
TeMuoMPeptanoic acid 4TUOPY 9	2FE		1.8	0.32	ng/L		10/14/25 03:45	10/19/25 04:33	1
TeMuoMoctanoic acid 4TUJ y 9	v7		1.8	0.36	ng/L		10/14/25 03:45	10/19/25 04:33	1
TeMuoMnonanoic acid 4TUZY 9	1FI z I		1.8	0.42	ng/L		10/14/25 03:45	10/19/25 04:33	1
Perfluorodecanoic acid (PFDA)	<1.8		1.8	0.41	ng/L		10/14/25 03:45	10/19/25 04:33	1
Perfluoroundecanoic acid (PFUnA)	<1.8		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 04:33	1
Perfluorododecanoic acid (PFDoA)	<1.8		1.8	0.51	ng/L		10/14/25 03:45	10/19/25 04:33	1
Perfluorotridecanoic acid (PFTriA)	<1.8		1.8	0.53	ng/L		10/14/25 03:45	10/19/25 04:33	1
Perfluorotetradecanoic acid (PFTeA)	<1.8		1.8	0.74	ng/L		10/14/25 03:45	10/19/25 04:33	1
TeMuoMbutanesulfonic acid 4TUHS9	0R3 z H		1.8	0.50	ng/L		10/14/25 03:45	10/19/25 04:33	1
Perfluoropentanesulfonic acid (PFPeS)	<1.8		1.8	0.20	ng/L		10/14/25 03:45	10/19/25 04:33	1
TeMuoMPeranesulfonic acid 4TUOR S9	0R(z		1.8	0.23	ng/L		10/14/25 03:45	10/19/25 04:33	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.8		1.8	0.16	ng/L		10/14/25 03:45	10/19/25 04:33	1
TeMuoMoctanesulfonic acid 4TUJ S9	1F5 z		1.8	0.25	ng/L		10/14/25 03:45	10/19/25 04:33	1
Perfluorononanesulfonic acid (PFNS)	<1.8		1.8	0.29	ng/L		10/14/25 03:45	10/19/25 04:33	1
Perfluorodecanesulfonic acid (PFDS)	<1.8		1.8	0.29	ng/L		10/14/25 03:45	10/19/25 04:33	1
Perfluorododecanesulfonic acid (PFDoS)	<1.8		1.8	0.49	ng/L		10/14/25 03:45	10/19/25 04:33	1
4:2 FTS	<3.7		3.7	0.40	ng/L		10/14/25 03:45	10/19/25 04:33	1
6:2 UNS	2R z		3.7	0.37	ng/L		10/14/25 03:45	10/19/25 04:33	1
8:2 FTS	<3.7		3.7	0.82	ng/L		10/14/25 03:45	10/19/25 04:33	1
Perfluorooctanesulfonamide (FOSA)	<1.8		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 04:33	1
NMeFOSA	<1.8		1.8	0.35	ng/L		10/14/25 03:45	10/19/25 04:33	1
NEtFOSA	<1.8		1.8	0.41	ng/L		10/14/25 03:45	10/19/25 04:33	1
NMeFOSAA	<1.8		1.8	0.32	ng/L		10/14/25 03:45	10/19/25 04:33	1
NEtFOSAA	<1.8		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 04:33	1
NMeFOSE	<9.2		9.2	2.1	ng/L		10/14/25 03:45	10/19/25 04:33	1
NEtFOSE	<9.2		9.2	2.2	ng/L		10/14/25 03:45	10/19/25 04:33	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.4		1.4	0.36	ng/L		10/14/25 03:45	10/19/25 04:33	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8		1.8	0.37	ng/L		10/14/25 03:45	10/19/25 04:33	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.8		1.8	0.17	ng/L		10/14/25 03:45	10/19/25 04:33	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.8		1.8	0.24	ng/L		10/14/25 03:45	10/19/25 04:33	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.8		1.8	0.66	ng/L		10/14/25 03:45	10/19/25 04:33	1
F-53B Major	<1.8		1.8	0.53	ng/L		10/14/25 03:45	10/19/25 04:33	1
F-53B Minor	<1.8		1.8	0.27	ng/L		10/14/25 03:45	10/19/25 04:33	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.8		1.8	0.23	ng/L		10/14/25 03:45	10/19/25 04:33	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.7		3.7	0.66	ng/L		10/14/25 03:45	10/19/25 04:33	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<9.2		9.2	1.6	ng/L		10/14/25 03:45	10/19/25 04:33	1

Eurofins Chicago

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: TW73-32 4100(259

Lab Sample ID: 500-276137-5

Date Collected: 10/01/25 15:15

) atNr : x atem

Date Received: 10/13/25 0E:20

) etPod: ATy 1633y - TeM and Tolf HuoMal. f l Substances bf LC/) S/) S 4Continued9

y nalf te	Result	8 ualikieM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<9.2		9.2	1.1	ng/L		10/14/25 03:45	10/19/25 04:33	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	82.4		5 - 130				10/14/25 03:45	10/19/25 04:33	1
13C5 PFPeA	98.1		40 - 130				10/14/25 03:45	10/19/25 04:33	1
13C5 PFHxA	110		40 - 130				10/14/25 03:45	10/19/25 04:33	1
13C4 PFHpA	109		40 - 130				10/14/25 03:45	10/19/25 04:33	1
13C8 PFOA	101		40 - 130				10/14/25 03:45	10/19/25 04:33	1
13C9 PFNA	88.4		40 - 130				10/14/25 03:45	10/19/25 04:33	1
13C6 PFDA	95.0		40 - 130				10/14/25 03:45	10/19/25 04:33	1
13C7 PFUnA	84.0		30 - 130				10/14/25 03:45	10/19/25 04:33	1
13C2 PFDoA	91.4		10 - 130				10/14/25 03:45	10/19/25 04:33	1
13C2 PFTeDA	88.4		10 - 130				10/14/25 03:45	10/19/25 04:33	1
13C3 PFBS	85.2		40 - 135				10/14/25 03:45	10/19/25 04:33	1
13C3 PFHxS	93.5		40 - 130				10/14/25 03:45	10/19/25 04:33	1
13C8 PFOS	107		40 - 130				10/14/25 03:45	10/19/25 04:33	1
13C8 FOSA	88.8		40 - 130				10/14/25 03:45	10/19/25 04:33	1
d3-NMeFOSAA	83.0		40 - 170				10/14/25 03:45	10/19/25 04:33	1
d5-NEtFOSAA	84.7		25 - 135				10/14/25 03:45	10/19/25 04:33	1
M2-4:2 FTS	94.0		40 - 200				10/14/25 03:45	10/19/25 04:33	1
M2-6:2 FTS	79.0		40 - 200				10/14/25 03:45	10/19/25 04:33	1
M2-8:2 FTS	83.5		40 - 300				10/14/25 03:45	10/19/25 04:33	1
13C3 HFPO-DA	94.4		40 - 130				10/14/25 03:45	10/19/25 04:33	1
d7-N-MeFOSE-M	66.6		10 - 130				10/14/25 03:45	10/19/25 04:33	1
d9-N-EtFOSE-M	61.9		10 - 130				10/14/25 03:45	10/19/25 04:33	1
d5-NEtPFOSA	66.3		10 - 130				10/14/25 03:45	10/19/25 04:33	1
d3-NMePFOSA	68.8		10 - 130				10/14/25 03:45	10/19/25 04:33	1

) etPod: ATy 1633y - TeM and Tolf HuoMal. f l Substances bf LC/) S/) S - RA

y nalf te	Result	8 ualikieM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
Perfluorobutanesulfonic acid (PFBS)	<1.8		1.8	0.49	ng/L		10/21/25 04:01	10/22/25 00:30	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 PFBS	105	*3	40 - 135				10/21/25 04:01	10/22/25 00:30	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: Nx -02 4100(259

Lab Sample ID: 500-276137-6

Date Collected: 10/01/25 15:50

) atNr : x ateM

Date Received: 10/13/25 0E:20

) etPod: ATy 1633y - TeM and Tolf WuomAl. f l Substances bf LC/) S/) S

y nalf te	Result	8 ualiieM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
TeMuoMbutanoic acid 4TUHy9	(16		3.7	0.34	ng/L		10/14/25 03:45	10/19/25 04:49	1
TeMuoMpentanoic acid 4UTey9	0FE5 z		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 04:49	1
TeMuoMPeranoic acid 4UOr y9	0F56 z		1.8	0.25	ng/L		10/14/25 03:45	10/19/25 04:49	1
Perfluoroheptanoic acid (PFHpA)	<1.8		1.8	0.32	ng/L		10/14/25 03:45	10/19/25 04:49	1
TeMuoMoctanoic acid 4UJ y9	2F7		1.8	0.36	ng/L		10/14/25 03:45	10/19/25 04:49	1
Perfluorononanoic acid (PFNA)	<1.8		1.8	0.42	ng/L		10/14/25 03:45	10/19/25 04:49	1
Perfluorodecanoic acid (PFDA)	<1.8		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 04:49	1
Perfluoroundecanoic acid (PFUnA)	<1.8		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 04:49	1
Perfluorododecanoic acid (PFDoA)	<1.8		1.8	0.51	ng/L		10/14/25 03:45	10/19/25 04:49	1
Perfluorotridecanoic acid (PFTriA)	<1.8		1.8	0.53	ng/L		10/14/25 03:45	10/19/25 04:49	1
Perfluorotetradecanoic acid (PFTeA)	<1.8		1.8	0.74	ng/L		10/14/25 03:45	10/19/25 04:49	1
TeMuoMbutanesulfonic acid 4UHS9	0F60 z H		1.8	0.49	ng/L		10/14/25 03:45	10/19/25 04:49	1
Perfluoropentanesulfonic acid (PFPeS)	<1.8		1.8	0.20	ng/L		10/14/25 03:45	10/19/25 04:49	1
TeMuoMPeranesulfonic acid 4UOr S9	0FE z		1.8	0.22	ng/L		10/14/25 03:45	10/19/25 04:49	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.8		1.8	0.16	ng/L		10/14/25 03:45	10/19/25 04:49	1
Perfluorooctanesulfonic acid (PFOS)	<1.8		1.8	0.25	ng/L		10/14/25 03:45	10/19/25 04:49	1
Perfluorononanesulfonic acid (PFNS)	<1.8		1.8	0.29	ng/L		10/14/25 03:45	10/19/25 04:49	1
Perfluorodecanesulfonic acid (PFDS)	<1.8		1.8	0.28	ng/L		10/14/25 03:45	10/19/25 04:49	1
Perfluorododecanesulfonic acid (PFDoS)	<1.8		1.8	0.49	ng/L		10/14/25 03:45	10/19/25 04:49	1
4:2 FTS	<3.7		3.7	0.40	ng/L		10/14/25 03:45	10/19/25 04:49	1
6:2 FTS	<3.7		3.7	0.37	ng/L		10/14/25 03:45	10/19/25 04:49	1
8:2 FTS	<3.7		3.7	0.82	ng/L		10/14/25 03:45	10/19/25 04:49	1
Perfluorooctanesulfonamide (FOSA)	<1.8		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 04:49	1
NMeFOSA	<1.8		1.8	0.35	ng/L		10/14/25 03:45	10/19/25 04:49	1
NEtFOSA	<1.8		1.8	0.41	ng/L		10/14/25 03:45	10/19/25 04:49	1
NMeFOSAA	<1.8		1.8	0.32	ng/L		10/14/25 03:45	10/19/25 04:49	1
NEtFOSAA	<1.8		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 04:49	1
NMeFOSE	<9.2		9.2	2.1	ng/L		10/14/25 03:45	10/19/25 04:49	1
NEtFOSE	<9.2		9.2	2.2	ng/L		10/14/25 03:45	10/19/25 04:49	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.4		1.4	0.36	ng/L		10/14/25 03:45	10/19/25 04:49	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8		1.8	0.37	ng/L		10/14/25 03:45	10/19/25 04:49	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.8		1.8	0.17	ng/L		10/14/25 03:45	10/19/25 04:49	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.8		1.8	0.24	ng/L		10/14/25 03:45	10/19/25 04:49	1
Nonafuoro-3,6-dioxaheptanoic acid (NFDHA)	<1.8		1.8	0.66	ng/L		10/14/25 03:45	10/19/25 04:49	1
F-53B Major	<1.8		1.8	0.53	ng/L		10/14/25 03:45	10/19/25 04:49	1
F-53B Minor	<1.8		1.8	0.27	ng/L		10/14/25 03:45	10/19/25 04:49	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.8		1.8	0.23	ng/L		10/14/25 03:45	10/19/25 04:49	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.7		3.7	0.66	ng/L		10/14/25 03:45	10/19/25 04:49	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<9.2		9.2	1.6	ng/L		10/14/25 03:45	10/19/25 04:49	1

Eurofins Chicago

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: Nx -02 4100(259

Lab Sample ID: 500-276137-6

Date Collected: 10/01/25 15:50

) atNr : x ateM

Date Received: 10/13/25 0E:20

) etPod: ATy 1633y - TeM and Tolf WuomAl. f l Substances bf LC/) S/) S 4Continued9

y nalf te	Result	8 ualikeM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<9.2		9.2	1.1	ng/L		10/14/25 03:45	10/19/25 04:49	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	80.6		5 - 130				10/14/25 03:45	10/19/25 04:49	1
13C5 PFPeA	96.2		40 - 130				10/14/25 03:45	10/19/25 04:49	1
13C5 PFHxA	95.3		40 - 130				10/14/25 03:45	10/19/25 04:49	1
13C4 PFHpA	98.0		40 - 130				10/14/25 03:45	10/19/25 04:49	1
13C8 PFOA	90.6		40 - 130				10/14/25 03:45	10/19/25 04:49	1
13C9 PFNA	96.7		40 - 130				10/14/25 03:45	10/19/25 04:49	1
13C6 PFDA	78.8		40 - 130				10/14/25 03:45	10/19/25 04:49	1
13C7 PFUnA	72.2		30 - 130				10/14/25 03:45	10/19/25 04:49	1
13C2 PFDoA	73.8		10 - 130				10/14/25 03:45	10/19/25 04:49	1
13C2 PFTeDA	70.5		10 - 130				10/14/25 03:45	10/19/25 04:49	1
13C3 PFBS	83.5		40 - 135				10/14/25 03:45	10/19/25 04:49	1
13C3 PFHxS	88.7		40 - 130				10/14/25 03:45	10/19/25 04:49	1
13C8 PFOS	103		40 - 130				10/14/25 03:45	10/19/25 04:49	1
13C8 FOSA	87.2		40 - 130				10/14/25 03:45	10/19/25 04:49	1
d3-NMeFOSAA	78.3		40 - 170				10/14/25 03:45	10/19/25 04:49	1
d5-NEtFOSAA	79.7		25 - 135				10/14/25 03:45	10/19/25 04:49	1
M2-4:2 FTS	77.3		40 - 200				10/14/25 03:45	10/19/25 04:49	1
M2-6:2 FTS	76.6		40 - 200				10/14/25 03:45	10/19/25 04:49	1
M2-8:2 FTS	77.6		40 - 300				10/14/25 03:45	10/19/25 04:49	1
13C3 HFPO-DA	86.3		40 - 130				10/14/25 03:45	10/19/25 04:49	1
d7-N-MeFOSE-M	68.8		10 - 130				10/14/25 03:45	10/19/25 04:49	1
d9-N-EtFOSE-M	64.5		10 - 130				10/14/25 03:45	10/19/25 04:49	1
d5-NEtPFOSA	68.5		10 - 130				10/14/25 03:45	10/19/25 04:49	1
d3-NMePFOSA	67.0		10 - 130				10/14/25 03:45	10/19/25 04:49	1

) etPod: ATy 1633y - TeM and Tolf WuomAl. f l Substances bf LC/) S/) S - RA

y nalf te	Result	8 ualikeM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
TeM WuomAlbutanesulfonic acid 4UHS9	0F6 z		1.8	0.49	ng/L		10/21/25 04:01	10/22/25 00:47	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 PFBS	98.0	*3	40 - 135				10/21/25 04:01	10/22/25 00:47	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: TW73-16 4100(259

Lab Sample ID: 500-276137-7

Date Collected: 10/01/25 16:05

) atNr : x atem

Date Received: 10/13/25 0E:20

) etPod: ATy 1633y - TeM and Tolf WuomAl. f l Substances bf LC/) S/) S

y nalf te	Result	8 ualikieM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
TeMluoMbutanoic acid 4TUHy9	3FE		3.6	0.34	ng/L		10/14/25 03:45	10/19/25 05:38	1
TeMluoMpentanoic acid 4UTey9	vB		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 05:38	1
TeMluoMPeranoic acid 4UOry9	3FI		1.8	0.24	ng/L		10/14/25 03:45	10/19/25 05:38	1
TeMluoMPeptanoic acid 4UOpy9	1FI z		1.8	0.31	ng/L		10/14/25 03:45	10/19/25 05:38	1
TeMluoMoctanoic acid 4UJy9	2FI		1.8	0.35	ng/L		10/14/25 03:45	10/19/25 05:38	1
Perfluorononanoic acid (PFNA)	<1.8		1.8	0.41	ng/L		10/14/25 03:45	10/19/25 05:38	1
Perfluorodecanoic acid (PFDA)	<1.8		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 05:38	1
Perfluoroundecanoic acid (PFUnA)	<1.8		1.8	0.20	ng/L		10/14/25 03:45	10/19/25 05:38	1
Perfluorododecanoic acid (PFDoA)	<1.8		1.8	0.50	ng/L		10/14/25 03:45	10/19/25 05:38	1
Perfluorotridecanoic acid (PFTriA)	<1.8		1.8	0.52	ng/L		10/14/25 03:45	10/19/25 05:38	1
Perfluorotetradecanoic acid (PFTeA)	<1.8		1.8	0.73	ng/L		10/14/25 03:45	10/19/25 05:38	1
TeMluoMbutanesulonic acid 4UHS9	0F53 z H		1.8	0.49	ng/L		10/14/25 03:45	10/19/25 05:38	1
Perfluoropentanesulfonic acid (PFPeS)	<1.8		1.8	0.19	ng/L		10/14/25 03:45	10/19/25 05:38	1
Perfluorohexanesulfonic acid (PFHxS)	<1.8		1.8	0.22	ng/L		10/14/25 03:45	10/19/25 05:38	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.8		1.8	0.16	ng/L		10/14/25 03:45	10/19/25 05:38	1
TeMluoMoctanesulonic acid 4UJS9	1F2 z I		1.8	0.25	ng/L		10/14/25 03:45	10/19/25 05:38	1
Perfluorononanesulfonic acid (PFNS)	<1.8		1.8	0.28	ng/L		10/14/25 03:45	10/19/25 05:38	1
Perfluorodecanesulfonic acid (PFDS)	<1.8		1.8	0.28	ng/L		10/14/25 03:45	10/19/25 05:38	1
Perfluorododecanesulfonic acid (PFDoS)	<1.8		1.8	0.48	ng/L		10/14/25 03:45	10/19/25 05:38	1
4:2 FTS	<3.6		3.6	0.40	ng/L		10/14/25 03:45	10/19/25 05:38	1
6:2 FTS	<3.6		3.6	0.37	ng/L		10/14/25 03:45	10/19/25 05:38	1
8:2 FTS	<3.6		3.6	0.81	ng/L		10/14/25 03:45	10/19/25 05:38	1
Perfluorooctanesulfonamide (FOSA)	<1.8		1.8	0.20	ng/L		10/14/25 03:45	10/19/25 05:38	1
NMeFOSA	<1.8		1.8	0.35	ng/L		10/14/25 03:45	10/19/25 05:38	1
NEtFOSA	<1.8		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 05:38	1
NMeFOSAA	<1.8		1.8	0.32	ng/L		10/14/25 03:45	10/19/25 05:38	1
NEtFOSAA	<1.8		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 05:38	1
NMeFOSE	<9.1		9.1	2.1	ng/L		10/14/25 03:45	10/19/25 05:38	1
NEtFOSE	<9.1		9.1	2.2	ng/L		10/14/25 03:45	10/19/25 05:38	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.4		1.4	0.35	ng/L		10/14/25 03:45	10/19/25 05:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8		1.8	0.36	ng/L		10/14/25 03:45	10/19/25 05:38	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.8		1.8	0.17	ng/L		10/14/25 03:45	10/19/25 05:38	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.8		1.8	0.23	ng/L		10/14/25 03:45	10/19/25 05:38	1
Nonafuoro-3,6-dioxaheptanoic acid (NFDHA)	<1.8		1.8	0.65	ng/L		10/14/25 03:45	10/19/25 05:38	1
F-53B Major	<1.8		1.8	0.52	ng/L		10/14/25 03:45	10/19/25 05:38	1
F-53B Minor	<1.8		1.8	0.27	ng/L		10/14/25 03:45	10/19/25 05:38	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.8		1.8	0.23	ng/L		10/14/25 03:45	10/19/25 05:38	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.6		3.6	0.65	ng/L		10/14/25 03:45	10/19/25 05:38	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<9.1		9.1	1.6	ng/L		10/14/25 03:45	10/19/25 05:38	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: TW73-16 4100(259

Lab Sample ID: 500-276137-7

Date Collected: 10/01/25 16:05

) atMr : x atem

Date Received: 10/13/25 0E:20

) etPod: ATy 1633y - TeM and Tolf HuoMal. f l Substances bf LC/) S/) S 4Continued9

y nalf te	Result	8 ualikeM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<9.1		9.1	1.1	ng/L		10/14/25 03:45	10/19/25 05:38	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	85.4		5 - 130				10/14/25 03:45	10/19/25 05:38	1
13C5 PFPeA	101		40 - 130				10/14/25 03:45	10/19/25 05:38	1
13C5 PFHxA	116		40 - 130				10/14/25 03:45	10/19/25 05:38	1
13C4 PFHpA	98.6		40 - 130				10/14/25 03:45	10/19/25 05:38	1
13C8 PFOA	99.4		40 - 130				10/14/25 03:45	10/19/25 05:38	1
13C9 PFNA	96.8		40 - 130				10/14/25 03:45	10/19/25 05:38	1
13C6 PFDA	87.6		40 - 130				10/14/25 03:45	10/19/25 05:38	1
13C7 PFUnA	79.4		30 - 130				10/14/25 03:45	10/19/25 05:38	1
13C2 PFDoA	77.3		10 - 130				10/14/25 03:45	10/19/25 05:38	1
13C2 PFTeDA	72.9		10 - 130				10/14/25 03:45	10/19/25 05:38	1
13C3 PFBS	91.7		40 - 135				10/14/25 03:45	10/19/25 05:38	1
13C3 PFHxS	99.1		40 - 130				10/14/25 03:45	10/19/25 05:38	1
13C8 PFOS	113		40 - 130				10/14/25 03:45	10/19/25 05:38	1
13C8 FOSA	90.0		40 - 130				10/14/25 03:45	10/19/25 05:38	1
d3-NMeFOSAA	91.0		40 - 170				10/14/25 03:45	10/19/25 05:38	1
d5-NEtFOSAA	93.0		25 - 135				10/14/25 03:45	10/19/25 05:38	1
M2-4:2 FTS	97.9		40 - 200				10/14/25 03:45	10/19/25 05:38	1
M2-6:2 FTS	86.2		40 - 200				10/14/25 03:45	10/19/25 05:38	1
M2-8:2 FTS	93.9		40 - 300				10/14/25 03:45	10/19/25 05:38	1
13C3 HFPO-DA	92.4		40 - 130				10/14/25 03:45	10/19/25 05:38	1
d7-N-MeFOSE-M	70.2		10 - 130				10/14/25 03:45	10/19/25 05:38	1
d9-N-EtFOSE-M	71.0		10 - 130				10/14/25 03:45	10/19/25 05:38	1
d5-NEtPFOSA	65.7		10 - 130				10/14/25 03:45	10/19/25 05:38	1
d3-NMePFOSA	65.6		10 - 130				10/14/25 03:45	10/19/25 05:38	1

) etPod: ATy 1633y - TeM and Tolf HuoMal. f l Substances bf LC/) S/) S - RA

y nalf te	Result	8 ualikeM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
TeMuoMbutanesulfonic acid 4UHS9	0F62 z		1.8	0.48	ng/L		10/21/25 04:01	10/22/25 01:03	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 PFBS	99.1		40 - 135				10/21/25 04:01	10/22/25 01:03	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: TW(E-v0 4100(259

Lab Sample ID: 500-276137-E

Date Collected: 10/01/25 16:35

) atNr: x atem

Date Received: 10/13/25 0E:20

) etPod: ATy 1633y - TeM and Tolf WuomAl. f l Substances bf LC/) S/) S

y nalf te	Result	8 ualikem	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
TeMuoMbutanoic acid 4TUHy9	1E z		3.7	0.34	ng/L		10/14/25 03:45	10/19/25 06:11	1
Perfluoropentanoic acid (PFPeA)	<1.8		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 06:11	1
TeMuoMPeranoic acid 4TUOr y9	0E6 z		1.8	0.25	ng/L		10/14/25 03:45	10/19/25 06:11	1
Perfluoroheptanoic acid (PFHpA)	<1.8		1.8	0.32	ng/L		10/14/25 03:45	10/19/25 06:11	1
TeMuoMoctanoic acid 4TUJ y9	12		1.8	0.36	ng/L		10/14/25 03:45	10/19/25 06:11	1
Perfluorononanoic acid (PFNA)	<1.8		1.8	0.42	ng/L		10/14/25 03:45	10/19/25 06:11	1
Perfluorodecanoic acid (PFDA)	<1.8		1.8	0.41	ng/L		10/14/25 03:45	10/19/25 06:11	1
Perfluoroundecanoic acid (PFUnA)	<1.8		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 06:11	1
Perfluorododecanoic acid (PFDoA)	<1.8		1.8	0.51	ng/L		10/14/25 03:45	10/19/25 06:11	1
Perfluorotridecanoic acid (PFTriA)	<1.8		1.8	0.53	ng/L		10/14/25 03:45	10/19/25 06:11	1
Perfluorotetradecanoic acid (PFTeA)	<1.8		1.8	0.74	ng/L		10/14/25 03:45	10/19/25 06:11	1
Perfluorobutanesulfonic acid (PFBS)	<1.8		1.8	0.50	ng/L		10/14/25 03:45	10/19/25 06:11	1
Perfluoropentanesulfonic acid (PFPeS)	<1.8		1.8	0.20	ng/L		10/14/25 03:45	10/19/25 06:11	1
TeMuoMPeranesulfonic acid 4TUOr S9	0E6 z		1.8	0.23	ng/L		10/14/25 03:45	10/19/25 06:11	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.8		1.8	0.16	ng/L		10/14/25 03:45	10/19/25 06:11	1
Perfluorooctanesulfonic acid (PFOS)	<1.8		1.8	0.26	ng/L		10/14/25 03:45	10/19/25 06:11	1
Perfluorononanesulfonic acid (PFNS)	<1.8		1.8	0.29	ng/L		10/14/25 03:45	10/19/25 06:11	1
Perfluorodecanesulfonic acid (PFDS)	<1.8		1.8	0.29	ng/L		10/14/25 03:45	10/19/25 06:11	1
Perfluorododecanesulfonic acid (PFDoS)	<1.8		1.8	0.49	ng/L		10/14/25 03:45	10/19/25 06:11	1
4:2 FTS	<3.7		3.7	0.40	ng/L		10/14/25 03:45	10/19/25 06:11	1
6:2 FTS	<3.7		3.7	0.37	ng/L		10/14/25 03:45	10/19/25 06:11	1
8:2 FTS	<3.7		3.7	0.83	ng/L		10/14/25 03:45	10/19/25 06:11	1
Perfluorooctanesulfonamide (FOSA)	<1.8		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 06:11	1
NMeFOSA	<1.8		1.8	0.35	ng/L		10/14/25 03:45	10/19/25 06:11	1
NEtFOSA	<1.8		1.8	0.41	ng/L		10/14/25 03:45	10/19/25 06:11	1
NMeFOSAA	<1.8		1.8	0.32	ng/L		10/14/25 03:45	10/19/25 06:11	1
NEtFOSAA	<1.8		1.8	0.41	ng/L		10/14/25 03:45	10/19/25 06:11	1
NMeFOSE	<9.2		9.2	2.1	ng/L		10/14/25 03:45	10/19/25 06:11	1
NEtFOSE	<9.2		9.2	2.2	ng/L		10/14/25 03:45	10/19/25 06:11	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.4		1.4	0.36	ng/L		10/14/25 03:45	10/19/25 06:11	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8		1.8	0.37	ng/L		10/14/25 03:45	10/19/25 06:11	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.8		1.8	0.18	ng/L		10/14/25 03:45	10/19/25 06:11	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.8		1.8	0.24	ng/L		10/14/25 03:45	10/19/25 06:11	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.8		1.8	0.66	ng/L		10/14/25 03:45	10/19/25 06:11	1
F-53B Major	<1.8		1.8	0.53	ng/L		10/14/25 03:45	10/19/25 06:11	1
F-53B Minor	<1.8		1.8	0.27	ng/L		10/14/25 03:45	10/19/25 06:11	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.8		1.8	0.23	ng/L		10/14/25 03:45	10/19/25 06:11	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.7		3.7	0.66	ng/L		10/14/25 03:45	10/19/25 06:11	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<9.2		9.2	1.6	ng/L		10/14/25 03:45	10/19/25 06:11	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<9.2		9.2	1.1	ng/L		10/14/25 03:45	10/19/25 06:11	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: TW(E-v0 4100(259

Lab Sample ID: 500-276137-E

Date Collected: 10/01/25 16:35

) atNr: x ateM

Date Received: 10/13/25 0E:20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	82.9		5 - 130	10/14/25 03:45	10/19/25 06:11	1
13C5 PFPeA	87.6		40 - 130	10/14/25 03:45	10/19/25 06:11	1
13C5 PFHxA	98.2		40 - 130	10/14/25 03:45	10/19/25 06:11	1
13C4 PFHpA	104		40 - 130	10/14/25 03:45	10/19/25 06:11	1
13C8 PFOA	99.6		40 - 130	10/14/25 03:45	10/19/25 06:11	1
13C9 PFNA	97.6		40 - 130	10/14/25 03:45	10/19/25 06:11	1
13C6 PFDA	81.4		40 - 130	10/14/25 03:45	10/19/25 06:11	1
13C7 PFUnA	85.6		30 - 130	10/14/25 03:45	10/19/25 06:11	1
13C2 PFDoA	81.4		10 - 130	10/14/25 03:45	10/19/25 06:11	1
13C2 PFTeDA	74.0		10 - 130	10/14/25 03:45	10/19/25 06:11	1
13C3 PFBS	80.5		40 - 135	10/14/25 03:45	10/19/25 06:11	1
13C3 PFHxS	94.7		40 - 130	10/14/25 03:45	10/19/25 06:11	1
13C8 PFOS	105		40 - 130	10/14/25 03:45	10/19/25 06:11	1
13C8 FOSA	86.8		40 - 130	10/14/25 03:45	10/19/25 06:11	1
d3-NMeFOSAA	86.3		40 - 170	10/14/25 03:45	10/19/25 06:11	1
d5-NEtFOSAA	79.6		25 - 135	10/14/25 03:45	10/19/25 06:11	1
M2-4:2 FTS	91.3		40 - 200	10/14/25 03:45	10/19/25 06:11	1
M2-6:2 FTS	82.2		40 - 200	10/14/25 03:45	10/19/25 06:11	1
M2-8:2 FTS	87.3		40 - 300	10/14/25 03:45	10/19/25 06:11	1
13C3 HFPO-DA	88.6		40 - 130	10/14/25 03:45	10/19/25 06:11	1
d7-N-MeFOSE-M	67.2		10 - 130	10/14/25 03:45	10/19/25 06:11	1
d9-N-EtFOSE-M	65.3		10 - 130	10/14/25 03:45	10/19/25 06:11	1
d5-NEtPFOSA	66.4		10 - 130	10/14/25 03:45	10/19/25 06:11	1
d3-NMePFOSA	70.5		10 - 130	10/14/25 03:45	10/19/25 06:11	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: Nx -05 4100(259

Lab Sample ID: 500-276137-10

Date Collected: 10/01/25 1v:35

) atNr: x ateM

Date Received: 10/13/25 0E:20

) etPod: ATy 1633y - TeM and Tolf WuomAl. f l Substances bf LC/) S/) S

y nalf te	Result	8 ualiieM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
Perfluorobutanoic acid (PFBA)	<3.8		3.8	0.35	ng/L		10/14/25 03:45	10/19/25 06:27	1
Perfluoropentanoic acid (PFPeA)	<1.9		1.9	0.22	ng/L		10/14/25 03:45	10/19/25 06:27	1
Perfluorohexanoic acid (PFHxA)	<1.9		1.9	0.25	ng/L		10/14/25 03:45	10/19/25 06:27	1
Perfluoroheptanoic acid (PFHpA)	<1.9		1.9	0.33	ng/L		10/14/25 03:45	10/19/25 06:27	1
Perfluorooctanoic acid (PFOA)	<1.9		1.9	0.37	ng/L		10/14/25 03:45	10/19/25 06:27	1
Perfluorononanoic acid (PFNA)	<1.9		1.9	0.43	ng/L		10/14/25 03:45	10/19/25 06:27	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9	0.42	ng/L		10/14/25 03:45	10/19/25 06:27	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9	0.21	ng/L		10/14/25 03:45	10/19/25 06:27	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9	0.52	ng/L		10/14/25 03:45	10/19/25 06:27	1
Perfluorotridecanoic acid (PFTriA)	<1.9		1.9	0.54	ng/L		10/14/25 03:45	10/19/25 06:27	1
Perfluorotetradecanoic acid (PFTeA)	<1.9		1.9	0.76	ng/L		10/14/25 03:45	10/19/25 06:27	1
Perfluorobutanesulfonic acid (PFBS)	<1.9		1.9	0.51	ng/L		10/14/25 03:45	10/19/25 06:27	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9	0.20	ng/L		10/14/25 03:45	10/19/25 06:27	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9		1.9	0.23	ng/L		10/14/25 03:45	10/19/25 06:27	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		1.9	0.17	ng/L		10/14/25 03:45	10/19/25 06:27	1
TeMuoMoctanesulfonic acid	0E1 z		1.9	0.26	ng/L		10/14/25 03:45	10/19/25 06:27	1
4UJ S9									
Perfluorononanesulfonic acid (PFNS)	<1.9		1.9	0.29	ng/L		10/14/25 03:45	10/19/25 06:27	1
Perfluorodecanesulfonic acid (PFDS)	<1.9		1.9	0.29	ng/L		10/14/25 03:45	10/19/25 06:27	1
Perfluorododecanesulfonic acid (PFDoS)	<1.9		1.9	0.50	ng/L		10/14/25 03:45	10/19/25 06:27	1
4:2 FTS	<3.8		3.8	0.41	ng/L		10/14/25 03:45	10/19/25 06:27	1
6:2 FTS	<3.8		3.8	0.38	ng/L		10/14/25 03:45	10/19/25 06:27	1
8:2 FTS	<3.8		3.8	0.85	ng/L		10/14/25 03:45	10/19/25 06:27	1
Perfluorooctanesulfonamide (FOSA)	<1.9		1.9	0.21	ng/L		10/14/25 03:45	10/19/25 06:27	1
NMeFOSA	<1.9		1.9	0.36	ng/L		10/14/25 03:45	10/19/25 06:27	1
NEtFOSA	<1.9		1.9	0.42	ng/L		10/14/25 03:45	10/19/25 06:27	1
NMeFOSAA	<1.9		1.9	0.33	ng/L		10/14/25 03:45	10/19/25 06:27	1
NEtFOSAA	<1.9		1.9	0.42	ng/L		10/14/25 03:45	10/19/25 06:27	1
NMeFOSE	<9.4		9.4	2.2	ng/L		10/14/25 03:45	10/19/25 06:27	1
NEtFOSE	<9.4		9.4	2.3	ng/L		10/14/25 03:45	10/19/25 06:27	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.4		1.4	0.37	ng/L		10/14/25 03:45	10/19/25 06:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9	0.38	ng/L		10/14/25 03:45	10/19/25 06:27	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.9		1.9	0.18	ng/L		10/14/25 03:45	10/19/25 06:27	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.9		1.9	0.24	ng/L		10/14/25 03:45	10/19/25 06:27	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.9		1.9	0.68	ng/L		10/14/25 03:45	10/19/25 06:27	1
F-53B Major	<1.9		1.9	0.55	ng/L		10/14/25 03:45	10/19/25 06:27	1
F-53B Minor	<1.9		1.9	0.28	ng/L		10/14/25 03:45	10/19/25 06:27	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.9		1.9	0.23	ng/L		10/14/25 03:45	10/19/25 06:27	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.8		3.8	0.68	ng/L		10/14/25 03:45	10/19/25 06:27	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<9.4		9.4	1.6	ng/L		10/14/25 03:45	10/19/25 06:27	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<9.4		9.4	1.2	ng/L		10/14/25 03:45	10/19/25 06:27	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: Nx -05 4100(259

Lab Sample ID: 500-276137-10

Date Collected: 10/01/25 1v:35

) atNr: x atem

Date Received: 10/13/25 0E:20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	84.5		5 - 130	10/14/25 03:45	10/19/25 06:27	1
13C5 PFPeA	93.5		40 - 130	10/14/25 03:45	10/19/25 06:27	1
13C5 PFHxA	104		40 - 130	10/14/25 03:45	10/19/25 06:27	1
13C4 PFHpA	104		40 - 130	10/14/25 03:45	10/19/25 06:27	1
13C8 PFOA	105		40 - 130	10/14/25 03:45	10/19/25 06:27	1
13C9 PFNA	90.5		40 - 130	10/14/25 03:45	10/19/25 06:27	1
13C6 PFDA	83.8		40 - 130	10/14/25 03:45	10/19/25 06:27	1
13C7 PFUnA	71.3		30 - 130	10/14/25 03:45	10/19/25 06:27	1
13C2 PFDoA	60.0		10 - 130	10/14/25 03:45	10/19/25 06:27	1
13C2 PFTeDA	57.7		10 - 130	10/14/25 03:45	10/19/25 06:27	1
13C3 PFBS	84.3		40 - 135	10/14/25 03:45	10/19/25 06:27	1
13C3 PFHxS	87.1		40 - 130	10/14/25 03:45	10/19/25 06:27	1
13C8 PFOS	101		40 - 130	10/14/25 03:45	10/19/25 06:27	1
13C8 FOSA	86.5		40 - 130	10/14/25 03:45	10/19/25 06:27	1
d3-NMeFOSAA	70.1		40 - 170	10/14/25 03:45	10/19/25 06:27	1
d5-NEtFOSAA	71.8		25 - 135	10/14/25 03:45	10/19/25 06:27	1
M2-4:2 FTS	83.5		40 - 200	10/14/25 03:45	10/19/25 06:27	1
M2-6:2 FTS	72.3		40 - 200	10/14/25 03:45	10/19/25 06:27	1
M2-8:2 FTS	90.5		40 - 300	10/14/25 03:45	10/19/25 06:27	1
13C3 HFPO-DA	101		40 - 130	10/14/25 03:45	10/19/25 06:27	1
d7-N-MeFOSE-M	54.4		10 - 130	10/14/25 03:45	10/19/25 06:27	1
d9-N-EtFOSE-M	47.8		10 - 130	10/14/25 03:45	10/19/25 06:27	1
d5-NEtPFOSA	58.8		10 - 130	10/14/25 03:45	10/19/25 06:27	1
d3-NMePFOSA	59.9		10 - 130	10/14/25 03:45	10/19/25 06:27	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: TW(3-50 4100(259

Lab Sample ID: 500-276137-11

Date Collected: 10/01/25 15:30

) atNr : x ateM

Date Received: 10/13/25 0E:20

) etPod: ATy 1633y - TeM and Tolf WuomAl. f l Substances bf LC/) S/) S

y nalf te	Result	8 ualikieM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
TeMluoMbutanoic acid 4TUHy 9	11		3.6	0.34	ng/L		10/14/25 03:45	10/19/25 06:44	1
TeMluoMpentanoic acid 4TUTey 9	vv		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 06:44	1
TeMluoMPeranoic acid 4TUOr y 9	26		1.8	0.25	ng/L		10/14/25 03:45	10/19/25 06:44	1
TeMluoMPeptanoic acid 4TUOPY 9	(15		1.8	0.32	ng/L		10/14/25 03:45	10/19/25 06:44	1
TeMluoMOctanoic acid 4TUJ y 9	13		1.8	0.36	ng/L		10/14/25 03:45	10/19/25 06:44	1
TeMluoMnonanoic acid 4TUZY 9	17 z		1.8	0.41	ng/L		10/14/25 03:45	10/19/25 06:44	1
Perfluorodecanoic acid (PFDA)	<1.8		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 06:44	1
Perfluoroundecanoic acid (PFUnA)	<1.8		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 06:44	1
Perfluorododecanoic acid (PFDoA)	<1.8		1.8	0.51	ng/L		10/14/25 03:45	10/19/25 06:44	1
Perfluorotridecanoic acid (PFTriA)	<1.8		1.8	0.53	ng/L		10/14/25 03:45	10/19/25 06:44	1
Perfluorotetradecanoic acid (PFTeA)	<1.8		1.8	0.74	ng/L		10/14/25 03:45	10/19/25 06:44	1
Perfluorobutanesulfonic acid (PFBS)	<1.8		1.8	0.49	ng/L		10/14/25 03:45	10/19/25 06:44	1
TeMluoMpentanesulfonic acid 4TUTeS9	0B(z		1.8	0.19	ng/L		10/14/25 03:45	10/19/25 06:44	1
TeMluoMPeranesulfonic acid 4TUOr S9	1R		1.8	0.22	ng/L		10/14/25 03:45	10/19/25 06:44	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.8		1.8	0.16	ng/L		10/14/25 03:45	10/19/25 06:44	1
TeMluoMOctanesulfonic acid 4TUJ S9	1B z l		1.8	0.25	ng/L		10/14/25 03:45	10/19/25 06:44	1
Perfluorononanesulfonic acid (PFNS)	<1.8		1.8	0.28	ng/L		10/14/25 03:45	10/19/25 06:44	1
Perfluorodecanesulfonic acid (PFDS)	<1.8		1.8	0.28	ng/L		10/14/25 03:45	10/19/25 06:44	1
Perfluorododecanesulfonic acid (PFDoS)	<1.8		1.8	0.48	ng/L		10/14/25 03:45	10/19/25 06:44	1
4:2 FTS	<3.6		3.6	0.40	ng/L		10/14/25 03:45	10/19/25 06:44	1
6:2 UNS	15		3.6	0.37	ng/L		10/14/25 03:45	10/19/25 06:44	1
8:2 FTS	<3.6		3.6	0.82	ng/L		10/14/25 03:45	10/19/25 06:44	1
Perfluorooctanesulfonamide (FOSA)	<1.8		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 06:44	1
NMeFOSA	<1.8		1.8	0.35	ng/L		10/14/25 03:45	10/19/25 06:44	1
NEtFOSA	<1.8		1.8	0.41	ng/L		10/14/25 03:45	10/19/25 06:44	1
NMeFOSAA	<1.8		1.8	0.32	ng/L		10/14/25 03:45	10/19/25 06:44	1
NEtFOSAA	<1.8		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 06:44	1
NMeFOSE	<9.1		9.1	2.1	ng/L		10/14/25 03:45	10/19/25 06:44	1
NEtFOSE	<9.1		9.1	2.2	ng/L		10/14/25 03:45	10/19/25 06:44	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.4		1.4	0.36	ng/L		10/14/25 03:45	10/19/25 06:44	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8		1.8	0.36	ng/L		10/14/25 03:45	10/19/25 06:44	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.8		1.8	0.17	ng/L		10/14/25 03:45	10/19/25 06:44	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.8		1.8	0.24	ng/L		10/14/25 03:45	10/19/25 06:44	1
Nonafuoro-3,6-dioxaheptanoic acid (NFDHA)	<1.8		1.8	0.66	ng/L		10/14/25 03:45	10/19/25 06:44	1
F-53B Major	<1.8		1.8	0.53	ng/L		10/14/25 03:45	10/19/25 06:44	1
F-53B Minor	<1.8		1.8	0.27	ng/L		10/14/25 03:45	10/19/25 06:44	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.8		1.8	0.23	ng/L		10/14/25 03:45	10/19/25 06:44	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.6		3.6	0.66	ng/L		10/14/25 03:45	10/19/25 06:44	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<9.1		9.1	1.6	ng/L		10/14/25 03:45	10/19/25 06:44	1

Eurofins Chicago

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: TW(3-50 4100(259

Lab Sample ID: 500-276137-11

Date Collected: 10/01/25 15:30

) atNr: x atem

Date Received: 10/13/25 0E:20

) etPod: ATy 1633y - TeM and Tolf WuomAl. f l Substances bf LC/) S/) S 4Continued9

y nalf te	Result	8 ualikeM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<9.1		9.1	1.1	ng/L		10/14/25 03:45	10/19/25 06:44	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	82.4		5 - 130				10/14/25 03:45	10/19/25 06:44	1
13C5 PFPeA	95.4		40 - 130				10/14/25 03:45	10/19/25 06:44	1
13C5 PFHxA	101		40 - 130				10/14/25 03:45	10/19/25 06:44	1
13C4 PFHpA	97.8		40 - 130				10/14/25 03:45	10/19/25 06:44	1
13C8 PFOA	95.0		40 - 130				10/14/25 03:45	10/19/25 06:44	1
13C9 PFNA	102		40 - 130				10/14/25 03:45	10/19/25 06:44	1
13C6 PFDA	84.1		40 - 130				10/14/25 03:45	10/19/25 06:44	1
13C7 PFUnA	83.6		30 - 130				10/14/25 03:45	10/19/25 06:44	1
13C2 PFDoA	73.2		10 - 130				10/14/25 03:45	10/19/25 06:44	1
13C2 PFTeDA	75.1		10 - 130				10/14/25 03:45	10/19/25 06:44	1
13C3 PFBS	86.6		40 - 135				10/14/25 03:45	10/19/25 06:44	1
13C3 PFHxS	91.0		40 - 130				10/14/25 03:45	10/19/25 06:44	1
13C8 PFOS	109		40 - 130				10/14/25 03:45	10/19/25 06:44	1
13C8 FOSA	91.7		40 - 130				10/14/25 03:45	10/19/25 06:44	1
d3-NMeFOSAA	77.5		40 - 170				10/14/25 03:45	10/19/25 06:44	1
d5-NEtFOSAA	80.3		25 - 135				10/14/25 03:45	10/19/25 06:44	1
M2-4:2 FTS	114		40 - 200				10/14/25 03:45	10/19/25 06:44	1
M2-6:2 FTS	74.2		40 - 200				10/14/25 03:45	10/19/25 06:44	1
M2-8:2 FTS	90.9		40 - 300				10/14/25 03:45	10/19/25 06:44	1
13C3 HFPO-DA	89.0		40 - 130				10/14/25 03:45	10/19/25 06:44	1
d7-N-MeFOSE-M	67.7		10 - 130				10/14/25 03:45	10/19/25 06:44	1
d9-N-EtFOSE-M	67.7		10 - 130				10/14/25 03:45	10/19/25 06:44	1
d5-NEtPFOSA	71.9		10 - 130				10/14/25 03:45	10/19/25 06:44	1
d3-NMePFOSA	72.6		10 - 130				10/14/25 03:45	10/19/25 06:44	1

Eurofins Chicago

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: TWvv-73 4100(259

Lab Sample ID: 500-276137-12

Date Collected: 10/01/25 16:25

) atNr: x atem

Date Received: 10/13/25 0E:20

) etPod: ATy 1633y - TeM and Tolf WuomAl. f l Substances bf LC/) S/) S

y nalf te	Result	8 ualikeM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
TeMuoMbutanoic acid 4TUHy 9	0F0 z		3.7	0.34	ng/L		10/14/25 03:45	10/19/25 07:00	1
TeMuoMpentanoic acid 4UTey 9	1F z		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 07:00	1
TeMuoMPeranoic acid 4UOry 9	0F2 z		1.8	0.25	ng/L		10/14/25 03:45	10/19/25 07:00	1
Perfluoroheptanoic acid (PFHpA)	<1.8		1.8	0.32	ng/L		10/14/25 03:45	10/19/25 07:00	1
Perfluorooctanoic acid (PFOA)	<1.8		1.8	0.36	ng/L		10/14/25 03:45	10/19/25 07:00	1
Perfluorononanoic acid (PFNA)	<1.8		1.8	0.42	ng/L		10/14/25 03:45	10/19/25 07:00	1
Perfluorodecanoic acid (PFDA)	<1.8		1.8	0.41	ng/L		10/14/25 03:45	10/19/25 07:00	1
TeMuoMundecanoic acid 4UBny 9	0FE z		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 07:00	1
Perfluorododecanoic acid (PFDoA)	<1.8		1.8	0.51	ng/L		10/14/25 03:45	10/19/25 07:00	1
Perfluorotridecanoic acid (PFTriA)	<1.8		1.8	0.53	ng/L		10/14/25 03:45	10/19/25 07:00	1
Perfluorotetradecanoic acid (PFTeA)	<1.8		1.8	0.74	ng/L		10/14/25 03:45	10/19/25 07:00	1
Perfluorobutanesulfonic acid (PFBS)	<1.8		1.8	0.50	ng/L		10/14/25 03:45	10/19/25 07:00	1
Perfluoropentanesulfonic acid (PFPeS)	<1.8		1.8	0.20	ng/L		10/14/25 03:45	10/19/25 07:00	1
Perfluorohexanesulfonic acid (PFHxS)	<1.8		1.8	0.23	ng/L		10/14/25 03:45	10/19/25 07:00	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.8		1.8	0.16	ng/L		10/14/25 03:45	10/19/25 07:00	1
TeMuoMoctanesulfonic acid 4UJ S9	0Fv z		1.8	0.25	ng/L		10/14/25 03:45	10/19/25 07:00	1
Perfluorononanesulfonic acid (PFNS)	<1.8		1.8	0.29	ng/L		10/14/25 03:45	10/19/25 07:00	1
Perfluorodecanesulfonic acid (PFDS)	<1.8		1.8	0.29	ng/L		10/14/25 03:45	10/19/25 07:00	1
Perfluorododecanesulfonic acid (PFDoS)	<1.8		1.8	0.49	ng/L		10/14/25 03:45	10/19/25 07:00	1
4:2 FTS	<3.7		3.7	0.40	ng/L		10/14/25 03:45	10/19/25 07:00	1
6:2 FTS	<3.7		3.7	0.37	ng/L		10/14/25 03:45	10/19/25 07:00	1
8:2 FTS	<3.7		3.7	0.82	ng/L		10/14/25 03:45	10/19/25 07:00	1
TeMuoMoctanesulfonamide 4UJ Sy 9	0Fv z		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 07:00	1
NMeFOSA	<1.8		1.8	0.35	ng/L		10/14/25 03:45	10/19/25 07:00	1
NEtFOSA	<1.8		1.8	0.41	ng/L		10/14/25 03:45	10/19/25 07:00	1
NMeFOSAA	<1.8		1.8	0.32	ng/L		10/14/25 03:45	10/19/25 07:00	1
NEtFOSAA	<1.8		1.8	0.41	ng/L		10/14/25 03:45	10/19/25 07:00	1
NMeFOSE	<9.2		9.2	2.1	ng/L		10/14/25 03:45	10/19/25 07:00	1
NEtFOSE	<9.2		9.2	2.2	ng/L		10/14/25 03:45	10/19/25 07:00	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.4		1.4	0.36	ng/L		10/14/25 03:45	10/19/25 07:00	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8		1.8	0.37	ng/L		10/14/25 03:45	10/19/25 07:00	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.8		1.8	0.17	ng/L		10/14/25 03:45	10/19/25 07:00	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.8		1.8	0.24	ng/L		10/14/25 03:45	10/19/25 07:00	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.8		1.8	0.66	ng/L		10/14/25 03:45	10/19/25 07:00	1
F-53B Major	<1.8		1.8	0.53	ng/L		10/14/25 03:45	10/19/25 07:00	1
F-53B Minor	<1.8		1.8	0.27	ng/L		10/14/25 03:45	10/19/25 07:00	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.8		1.8	0.23	ng/L		10/14/25 03:45	10/19/25 07:00	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.7		3.7	0.66	ng/L		10/14/25 03:45	10/19/25 07:00	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<9.2		9.2	1.6	ng/L		10/14/25 03:45	10/19/25 07:00	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: TWvv-73 4100(259

Lab Sample ID: 500-276137-12

Date Collected: 10/01/25 16:25

) atM: x atem

Date Received: 10/13/25 0E:20

) etPod: ATy 1633y - TeM and Tolf WuomAl. f l Substances bf LC/) S/) S 4Continued9

y nalf te	Result	8 ualikeM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<9.2		9.2	1.1	ng/L		10/14/25 03:45	10/19/25 07:00	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	86.6		5 - 130				10/14/25 03:45	10/19/25 07:00	1
13C5 PFPeA	104		40 - 130				10/14/25 03:45	10/19/25 07:00	1
13C5 PFHxA	137	*5+	40 - 130				10/14/25 03:45	10/19/25 07:00	1
13C4 PFHpA	130		40 - 130				10/14/25 03:45	10/19/25 07:00	1
13C8 PFOA	94.5		40 - 130				10/14/25 03:45	10/19/25 07:00	1
13C9 PFNA	86.8		40 - 130				10/14/25 03:45	10/19/25 07:00	1
13C6 PFDA	78.9		40 - 130				10/14/25 03:45	10/19/25 07:00	1
13C7 PFUnA	76.5		30 - 130				10/14/25 03:45	10/19/25 07:00	1
13C2 PFDoA	70.8		10 - 130				10/14/25 03:45	10/19/25 07:00	1
13C2 PFTeDA	75.4		10 - 130				10/14/25 03:45	10/19/25 07:00	1
13C3 PFBS	86.0		40 - 135				10/14/25 03:45	10/19/25 07:00	1
13C3 PFHxS	93.8		40 - 130				10/14/25 03:45	10/19/25 07:00	1
13C8 PFOS	100		40 - 130				10/14/25 03:45	10/19/25 07:00	1
13C8 FOSA	91.1		40 - 130				10/14/25 03:45	10/19/25 07:00	1
d3-NMeFOSAA	74.5		40 - 170				10/14/25 03:45	10/19/25 07:00	1
d5-NEtFOSAA	80.4		25 - 135				10/14/25 03:45	10/19/25 07:00	1
M2-4:2 FTS	92.0		40 - 200				10/14/25 03:45	10/19/25 07:00	1
M2-6:2 FTS	77.3		40 - 200				10/14/25 03:45	10/19/25 07:00	1
M2-8:2 FTS	86.5		40 - 300				10/14/25 03:45	10/19/25 07:00	1
13C3 HFPO-DA	110		40 - 130				10/14/25 03:45	10/19/25 07:00	1
d7-N-MeFOSE-M	63.7		10 - 130				10/14/25 03:45	10/19/25 07:00	1
d9-N-EtFOSE-M	62.8		10 - 130				10/14/25 03:45	10/19/25 07:00	1
d5-NEtPFOSA	68.6		10 - 130				10/14/25 03:45	10/19/25 07:00	1
d3-NMePFOSA	71.0		10 - 130				10/14/25 03:45	10/19/25 07:00	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: Nx -01 4100(259

Lab Sample ID: 500-276137-13

Date Collected: 10/01/25 17:15

) at Nr : x ateM

Date Received: 10/13/25 0E:20

) etPod: ATy 1633y - TeM and Tolf WuomAl. f l Substances bf LC/) S/) S

y nalf te	Result	8 ualiieM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
TeMuoMbutanoic acid 4TUHy9	1B z		3.9	0.36	ng/L		10/14/25 03:45	10/19/25 07:16	1
TeMuoMpentanoic acid 4UTey9	0B(z		1.9	0.22	ng/L		10/14/25 03:45	10/19/25 07:16	1
Perfluorohexanoic acid (PFHxA)	<1.9		1.9	0.26	ng/L		10/14/25 03:45	10/19/25 07:16	1
Perfluoroheptanoic acid (PFHpA)	<1.9		1.9	0.33	ng/L		10/14/25 03:45	10/19/25 07:16	1
Perfluorooctanoic acid (PFOA)	<1.9		1.9	0.38	ng/L		10/14/25 03:45	10/19/25 07:16	1
Perfluorononanoic acid (PFNA)	<1.9		1.9	0.44	ng/L		10/14/25 03:45	10/19/25 07:16	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9	0.43	ng/L		10/14/25 03:45	10/19/25 07:16	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9	0.22	ng/L		10/14/25 03:45	10/19/25 07:16	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9	0.53	ng/L		10/14/25 03:45	10/19/25 07:16	1
Perfluorotridecanoic acid (PFTriA)	<1.9		1.9	0.56	ng/L		10/14/25 03:45	10/19/25 07:16	1
Perfluorotetradecanoic acid (PFTeA)	<1.9		1.9	0.78	ng/L		10/14/25 03:45	10/19/25 07:16	1
Perfluorobutanesulfonic acid (PFBS)	<1.9		1.9	0.52	ng/L		10/14/25 03:45	10/19/25 07:16	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9	0.21	ng/L		10/14/25 03:45	10/19/25 07:16	1
Perfluorohexanesulfonic acid (PFHxS)	<1.9		1.9	0.24	ng/L		10/14/25 03:45	10/19/25 07:16	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		1.9	0.17	ng/L		10/14/25 03:45	10/19/25 07:16	1
Perfluorooctanesulfonic acid (PFOS)	<1.9		1.9	0.27	ng/L		10/14/25 03:45	10/19/25 07:16	1
Perfluorononanesulfonic acid (PFNS)	<1.9		1.9	0.30	ng/L		10/14/25 03:45	10/19/25 07:16	1
Perfluorodecanesulfonic acid (PFDS)	<1.9		1.9	0.30	ng/L		10/14/25 03:45	10/19/25 07:16	1
Perfluorododecanesulfonic acid (PFDoS)	<1.9		1.9	0.51	ng/L		10/14/25 03:45	10/19/25 07:16	1
4:2 FTS	<3.9		3.9	0.42	ng/L		10/14/25 03:45	10/19/25 07:16	1
6:2 FTS	<3.9		3.9	0.39	ng/L		10/14/25 03:45	10/19/25 07:16	1
8:2 FTS	<3.9		3.9	0.86	ng/L		10/14/25 03:45	10/19/25 07:16	1
Perfluorooctanesulfonamide (FOSA)	<1.9		1.9	0.22	ng/L		10/14/25 03:45	10/19/25 07:16	1
NMeFOSA	<1.9		1.9	0.37	ng/L		10/14/25 03:45	10/19/25 07:16	1
NEtFOSA	<1.9		1.9	0.43	ng/L		10/14/25 03:45	10/19/25 07:16	1
NMeFOSAA	<1.9		1.9	0.34	ng/L		10/14/25 03:45	10/19/25 07:16	1
NEtFOSAA	<1.9		1.9	0.42	ng/L		10/14/25 03:45	10/19/25 07:16	1
NMeFOSE	<9.7		9.7	2.2	ng/L		10/14/25 03:45	10/19/25 07:16	1
NEtFOSE	<9.7		9.7	2.3	ng/L		10/14/25 03:45	10/19/25 07:16	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.4		1.4	0.38	ng/L		10/14/25 03:45	10/19/25 07:16	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9	0.39	ng/L		10/14/25 03:45	10/19/25 07:16	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.9		1.9	0.18	ng/L		10/14/25 03:45	10/19/25 07:16	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.9		1.9	0.25	ng/L		10/14/25 03:45	10/19/25 07:16	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.9		1.9	0.69	ng/L		10/14/25 03:45	10/19/25 07:16	1
F-53B Major	<1.9		1.9	0.56	ng/L		10/14/25 03:45	10/19/25 07:16	1
F-53B Minor	<1.9		1.9	0.29	ng/L		10/14/25 03:45	10/19/25 07:16	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.9		1.9	0.24	ng/L		10/14/25 03:45	10/19/25 07:16	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.9		3.9	0.69	ng/L		10/14/25 03:45	10/19/25 07:16	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<9.7		9.7	1.7	ng/L		10/14/25 03:45	10/19/25 07:16	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<9.7		9.7	1.2	ng/L		10/14/25 03:45	10/19/25 07:16	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: Nx -01 4100(259

Lab Sample ID: 500-276137-13

Date Collected: 10/01/25 17:15

) atNr: x atem

Date Received: 10/13/25 0E:20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	80.8		5 - 130	10/14/25 03:45	10/19/25 07:16	1
13C5 PFPeA	98.3		40 - 130	10/14/25 03:45	10/19/25 07:16	1
13C5 PFHxA	106		40 - 130	10/14/25 03:45	10/19/25 07:16	1
13C4 PFHpA	98.4		40 - 130	10/14/25 03:45	10/19/25 07:16	1
13C8 PFOA	104		40 - 130	10/14/25 03:45	10/19/25 07:16	1
13C9 PFNA	96.8		40 - 130	10/14/25 03:45	10/19/25 07:16	1
13C6 PFDA	76.6		40 - 130	10/14/25 03:45	10/19/25 07:16	1
13C7 PFUnA	69.9		30 - 130	10/14/25 03:45	10/19/25 07:16	1
13C2 PFDoA	71.1		10 - 130	10/14/25 03:45	10/19/25 07:16	1
13C2 PFTeDA	65.4		10 - 130	10/14/25 03:45	10/19/25 07:16	1
13C3 PFBS	71.7		40 - 135	10/14/25 03:45	10/19/25 07:16	1
13C3 PFHxS	91.1		40 - 130	10/14/25 03:45	10/19/25 07:16	1
13C8 PFOS	94.6		40 - 130	10/14/25 03:45	10/19/25 07:16	1
13C8 FOSA	84.1		40 - 130	10/14/25 03:45	10/19/25 07:16	1
d3-NMeFOSAA	74.4		40 - 170	10/14/25 03:45	10/19/25 07:16	1
d5-NEtFOSAA	72.1		25 - 135	10/14/25 03:45	10/19/25 07:16	1
M2-4:2 FTS	89.1		40 - 200	10/14/25 03:45	10/19/25 07:16	1
M2-6:2 FTS	69.4		40 - 200	10/14/25 03:45	10/19/25 07:16	1
M2-8:2 FTS	79.9		40 - 300	10/14/25 03:45	10/19/25 07:16	1
13C3 HFPO-DA	99.3		40 - 130	10/14/25 03:45	10/19/25 07:16	1
d7-N-MeFOSE-M	57.3		10 - 130	10/14/25 03:45	10/19/25 07:16	1
d9-N-EtFOSE-M	54.9		10 - 130	10/14/25 03:45	10/19/25 07:16	1
d5-NEtPFOSA	61.0		10 - 130	10/14/25 03:45	10/19/25 07:16	1
d3-NMePFOSA	61.0		10 - 130	10/14/25 03:45	10/19/25 07:16	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: DBT-0(-LN) 4100(259

Lab Sample ID: 500-276137-1v

Date Collected: 10/01/25 00:00

) at Mr: x at eM

Date Received: 10/13/25 0E:20

) etPod: ATy 1633y - TeM and Tolf WuomAl. f l Substances bf LC/) S/) S

y nalf te	Result	8 ualikieM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
TeMuoMbutanoic acid 4TUHy9	3F6 z		3.7	0.34	ng/L		10/14/25 03:45	10/19/25 07:33	1
TeMuoMpentanoic acid 4TUTey9	vFI		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 07:33	1
TeMuoMPeranoic acid 4TUOr y9	2F6		1.8	0.25	ng/L		10/14/25 03:45	10/19/25 07:33	1
TeMuoMPeptanoic acid 4TUOPY9	1FI z		1.8	0.32	ng/L		10/14/25 03:45	10/19/25 07:33	1
TeMuoMoctanoic acid 4TUJ y9	2F6		1.8	0.36	ng/L		10/14/25 03:45	10/19/25 07:33	1
Perfluorononanoic acid (PFNA)	<1.8		1.8	0.42	ng/L		10/14/25 03:45	10/19/25 07:33	1
Perfluorodecanoic acid (PFDA)	<1.8		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 07:33	1
Perfluoroundecanoic acid (PFUnA)	<1.8		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 07:33	1
Perfluorododecanoic acid (PFDoA)	<1.8		1.8	0.51	ng/L		10/14/25 03:45	10/19/25 07:33	1
Perfluorotridecanoic acid (PFTriA)	<1.8		1.8	0.53	ng/L		10/14/25 03:45	10/19/25 07:33	1
Perfluorotetradecanoic acid (PFTeA)	<1.8		1.8	0.74	ng/L		10/14/25 03:45	10/19/25 07:33	1
Perfluoropentanesulfonic acid (PFPeS)	<1.8		1.8	0.20	ng/L		10/14/25 03:45	10/19/25 07:33	1
Perfluorohexanesulfonic acid (PFHxS)	<1.8		1.8	0.22	ng/L		10/14/25 03:45	10/19/25 07:33	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.8		1.8	0.16	ng/L		10/14/25 03:45	10/19/25 07:33	1
TeMuoMoctanesulfonic acid 4TUJ S9	0F67 z		1.8	0.25	ng/L		10/14/25 03:45	10/19/25 07:33	1
Perfluorononanesulfonic acid (PFNS)	<1.8		1.8	0.29	ng/L		10/14/25 03:45	10/19/25 07:33	1
Perfluorodecanesulfonic acid (PFDS)	<1.8		1.8	0.28	ng/L		10/14/25 03:45	10/19/25 07:33	1
Perfluorododecanesulfonic acid (PFDoS)	<1.8		1.8	0.48	ng/L		10/14/25 03:45	10/19/25 07:33	1
4:2 FTS	<3.7		3.7	0.40	ng/L		10/14/25 03:45	10/19/25 07:33	1
6:2 FTS	<3.7		3.7	0.37	ng/L		10/14/25 03:45	10/19/25 07:33	1
8:2 FTS	<3.7		3.7	0.82	ng/L		10/14/25 03:45	10/19/25 07:33	1
Perfluorooctanesulfonamide (FOSA)	<1.8		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 07:33	1
NMeFOSA	<1.8		1.8	0.35	ng/L		10/14/25 03:45	10/19/25 07:33	1
NEtFOSA	<1.8		1.8	0.41	ng/L		10/14/25 03:45	10/19/25 07:33	1
NMeFOSAA	<1.8		1.8	0.32	ng/L		10/14/25 03:45	10/19/25 07:33	1
NEtFOSAA	<1.8		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 07:33	1
NMeFOSE	<9.2		9.2	2.1	ng/L		10/14/25 03:45	10/19/25 07:33	1
NEtFOSE	<9.2		9.2	2.2	ng/L		10/14/25 03:45	10/19/25 07:33	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.4		1.4	0.36	ng/L		10/14/25 03:45	10/19/25 07:33	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8		1.8	0.37	ng/L		10/14/25 03:45	10/19/25 07:33	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.8		1.8	0.17	ng/L		10/14/25 03:45	10/19/25 07:33	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.8		1.8	0.24	ng/L		10/14/25 03:45	10/19/25 07:33	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.8		1.8	0.66	ng/L		10/14/25 03:45	10/19/25 07:33	1
F-53B Major	<1.8		1.8	0.53	ng/L		10/14/25 03:45	10/19/25 07:33	1
F-53B Minor	<1.8		1.8	0.27	ng/L		10/14/25 03:45	10/19/25 07:33	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.8		1.8	0.23	ng/L		10/14/25 03:45	10/19/25 07:33	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.7		3.7	0.66	ng/L		10/14/25 03:45	10/19/25 07:33	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<9.2		9.2	1.6	ng/L		10/14/25 03:45	10/19/25 07:33	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<9.2		9.2	1.1	ng/L		10/14/25 03:45	10/19/25 07:33	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: DBT-0(-LN) 4100(259

Lab Sample ID: 500-276137-1v

Date Collected: 10/0(/25 00:00

) atNr : x ateM

Date Received: 10/13/25 0E:20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	82.8		5 - 130	10/14/25 03:45	10/19/25 07:33	1
13C5 PFPeA	93.6		40 - 130	10/14/25 03:45	10/19/25 07:33	1
13C5 PFHxA	115		40 - 130	10/14/25 03:45	10/19/25 07:33	1
13C4 PFHpA	109		40 - 130	10/14/25 03:45	10/19/25 07:33	1
13C8 PFOA	90.9		40 - 130	10/14/25 03:45	10/19/25 07:33	1
13C9 PFNA	86.0		40 - 130	10/14/25 03:45	10/19/25 07:33	1
13C6 PFDA	94.8		40 - 130	10/14/25 03:45	10/19/25 07:33	1
13C7 PFUnA	93.4		30 - 130	10/14/25 03:45	10/19/25 07:33	1
13C2 PFDoA	89.3		10 - 130	10/14/25 03:45	10/19/25 07:33	1
13C2 PFTeDA	88.7		10 - 130	10/14/25 03:45	10/19/25 07:33	1
13C3 PFBS	86.4		40 - 135	10/14/25 03:45	10/19/25 07:33	1
13C3 PFHxS	91.8		40 - 130	10/14/25 03:45	10/19/25 07:33	1
13C8 PFOS	112		40 - 130	10/14/25 03:45	10/19/25 07:33	1
13C8 FOSA	86.4		40 - 130	10/14/25 03:45	10/19/25 07:33	1
d3-NMeFOSAA	83.3		40 - 170	10/14/25 03:45	10/19/25 07:33	1
d5-NEtFOSAA	86.6		25 - 135	10/14/25 03:45	10/19/25 07:33	1
M2-4:2 FTS	90.7		40 - 200	10/14/25 03:45	10/19/25 07:33	1
M2-6:2 FTS	89.5		40 - 200	10/14/25 03:45	10/19/25 07:33	1
M2-8:2 FTS	94.4		40 - 300	10/14/25 03:45	10/19/25 07:33	1
13C3 HFPO-DA	92.9		40 - 130	10/14/25 03:45	10/19/25 07:33	1
d7-N-MeFOSE-M	67.4		10 - 130	10/14/25 03:45	10/19/25 07:33	1
d9-N-EtFOSE-M	66.2		10 - 130	10/14/25 03:45	10/19/25 07:33	1
d5-NEtPFOSA	63.2		10 - 130	10/14/25 03:45	10/19/25 07:33	1
d3-NMePFOSA	67.1		10 - 130	10/14/25 03:45	10/19/25 07:33	1

) etPod: ATy 1633y - TeM and Tolf MuoMal. f l Substances bf LC/) S/) S - RA

y nalf te	Result	8 ualikieM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
TeMuombutanesulfonic acid 4UHS9	0F52	z	1.7	0.47	ng/L		10/20/25 11:45	10/22/25 03:37	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 PFBS	91.4		40 - 135				10/20/25 11:45	10/22/25 03:37	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: TW7v-(0 4100E259

Lab Sample ID: 500-276137-16

Date Collected: 10/06/25 0E:55

) atNr : x ateM

Date Received: 10/13/25 0E:20

) etPod: ATy 1633y - TeM and Tolf WuolMal. f l Substances bf LC/) S/) S

y nalf te	Result	8 ualikieM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
TeMluoMbutanoic acid 4TUHy 9	7R		3.6	0.33	ng/L		10/14/25 03:45	10/19/25 08:05	1
TeMluoMpentanoic acid 4TUTey 9	1(		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 08:05	1
TeMluoMPeranoic acid 4TUOr y 9	11		1.8	0.24	ng/L		10/14/25 03:45	10/19/25 08:05	1
TeMluoMPeptanoic acid 4TUOPY 9	ER6		1.8	0.31	ng/L		10/14/25 03:45	10/19/25 08:05	1
TeMluoMoctanoic acid 4TUJ y 9	1(		1.8	0.35	ng/L		10/14/25 03:45	10/19/25 08:05	1
TeMluoMnonanoic acid 4TUZY 9	1E		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 08:05	1
Perfluorodecanoic acid (PFDA)	<1.8		1.8	0.39	ng/L		10/14/25 03:45	10/19/25 08:05	1
Perfluoroundecanoic acid (PFUnA)	<1.8		1.8	0.20	ng/L		10/14/25 03:45	10/19/25 08:05	1
Perfluorododecanoic acid (PFDoA)	<1.8		1.8	0.49	ng/L		10/14/25 03:45	10/19/25 08:05	1
Perfluorotridecanoic acid (PFTriA)	<1.8		1.8	0.51	ng/L		10/14/25 03:45	10/19/25 08:05	1
Perfluorotetradecanoic acid (PFTeA)	<1.8		1.8	0.72	ng/L		10/14/25 03:45	10/19/25 08:05	1
Perfluorobutanesulfonic acid (PFBS)	<1.8		1.8	0.48	ng/L		10/14/25 03:45	10/19/25 08:05	1
TeMluoMpentanesulfonic acid 4TUTeS9	0E(z		1.8	0.19	ng/L		10/14/25 03:45	10/19/25 08:05	1
TeMluoMPeranesulfonic acid 4TUOr S9	1F z		1.8	0.22	ng/L		10/14/25 03:45	10/19/25 08:05	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.8		1.8	0.16	ng/L		10/14/25 03:45	10/19/25 08:05	1
TeMluoMoctanesulfonic acid 4TUJ S9	1F z		1.8	0.25	ng/L		10/14/25 03:45	10/19/25 08:05	1
Perfluorononanesulfonic acid (PFNS)	<1.8		1.8	0.28	ng/L		10/14/25 03:45	10/19/25 08:05	1
Perfluorodecanesulfonic acid (PFDS)	<1.8		1.8	0.28	ng/L		10/14/25 03:45	10/19/25 08:05	1
Perfluorododecanesulfonic acid (PFDoS)	<1.8		1.8	0.47	ng/L		10/14/25 03:45	10/19/25 08:05	1
v:2 UNS	0R1 z		3.6	0.39	ng/L		10/14/25 03:45	10/19/25 08:05	1
6:2 UNS	15		3.6	0.36	ng/L		10/14/25 03:45	10/19/25 08:05	1
(:2 UNS	0E5 z		3.6	0.80	ng/L		10/14/25 03:45	10/19/25 08:05	1
Perfluorooctanesulfonamide (FOSA)	<1.8		1.8	0.20	ng/L		10/14/25 03:45	10/19/25 08:05	1
NMeFOSA	<1.8		1.8	0.34	ng/L		10/14/25 03:45	10/19/25 08:05	1
NEtFOSA	<1.8		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 08:05	1
NMeFOSAA	<1.8		1.8	0.31	ng/L		10/14/25 03:45	10/19/25 08:05	1
NEtFOSAA	<1.8		1.8	0.39	ng/L		10/14/25 03:45	10/19/25 08:05	1
NMeFOSE	<8.9		8.9	2.0	ng/L		10/14/25 03:45	10/19/25 08:05	1
NEtFOSE	<8.9		8.9	2.2	ng/L		10/14/25 03:45	10/19/25 08:05	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.3		1.3	0.35	ng/L		10/14/25 03:45	10/19/25 08:05	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8		1.8	0.36	ng/L		10/14/25 03:45	10/19/25 08:05	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.8		1.8	0.17	ng/L		10/14/25 03:45	10/19/25 08:05	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.8		1.8	0.23	ng/L		10/14/25 03:45	10/19/25 08:05	1
Nonafuoro-3,6-dioxaheptanoic acid (NFDHA)	<1.8		1.8	0.64	ng/L		10/14/25 03:45	10/19/25 08:05	1
F-53B Major	<1.8		1.8	0.52	ng/L		10/14/25 03:45	10/19/25 08:05	1
F-53B Minor	<1.8		1.8	0.26	ng/L		10/14/25 03:45	10/19/25 08:05	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.8		1.8	0.22	ng/L		10/14/25 03:45	10/19/25 08:05	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.6		3.6	0.64	ng/L		10/14/25 03:45	10/19/25 08:05	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<8.9		8.9	1.5	ng/L		10/14/25 03:45	10/19/25 08:05	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID: TW7v-(0 4100E259

Lab Sample ID: 500-276137-16

Date Collected: 10/0E/25 0E:55

) atNr: x atem

Date Received: 10/13/25 0E:20

) etPod: ATy 1633y - TeM and Tolf WuomAl. f l Substances bf LC/) S/) S 4Continued9

y nalf te	Result	8 ualikeM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<8.9		8.9	1.1	ng/L		10/14/25 03:45	10/19/25 08:05	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	81.4		5 - 130				10/14/25 03:45	10/19/25 08:05	1
13C5 PFPeA	98.2		40 - 130				10/14/25 03:45	10/19/25 08:05	1
13C5 PFHxA	102		40 - 130				10/14/25 03:45	10/19/25 08:05	1
13C4 PFHpA	99.8		40 - 130				10/14/25 03:45	10/19/25 08:05	1
13C8 PFOA	91.8		40 - 130				10/14/25 03:45	10/19/25 08:05	1
13C9 PFNA	96.5		40 - 130				10/14/25 03:45	10/19/25 08:05	1
13C6 PFDA	75.9		40 - 130				10/14/25 03:45	10/19/25 08:05	1
13C7 PFUnA	73.2		30 - 130				10/14/25 03:45	10/19/25 08:05	1
13C2 PFDoA	74.9		10 - 130				10/14/25 03:45	10/19/25 08:05	1
13C2 PFTeDA	79.9		10 - 130				10/14/25 03:45	10/19/25 08:05	1
13C3 PFBS	86.5		40 - 135				10/14/25 03:45	10/19/25 08:05	1
13C3 PFHxS	96.3		40 - 130				10/14/25 03:45	10/19/25 08:05	1
13C8 PFOS	94.1		40 - 130				10/14/25 03:45	10/19/25 08:05	1
13C8 FOSA	84.8		40 - 130				10/14/25 03:45	10/19/25 08:05	1
d3-NMeFOSAA	73.0		40 - 170				10/14/25 03:45	10/19/25 08:05	1
d5-NEtFOSAA	79.7		25 - 135				10/14/25 03:45	10/19/25 08:05	1
M2-4:2 FTS	106		40 - 200				10/14/25 03:45	10/19/25 08:05	1
M2-6:2 FTS	76.8		40 - 200				10/14/25 03:45	10/19/25 08:05	1
M2-8:2 FTS	80.9		40 - 300				10/14/25 03:45	10/19/25 08:05	1
13C3 HFPO-DA	93.7		40 - 130				10/14/25 03:45	10/19/25 08:05	1
d7-N-MeFOSE-M	61.4		10 - 130				10/14/25 03:45	10/19/25 08:05	1
d9-N-EtFOSE-M	58.8		10 - 130				10/14/25 03:45	10/19/25 08:05	1
d5-NEtPFOSA	66.5		10 - 130				10/14/25 03:45	10/19/25 08:05	1
d3-NMePFOSA	67.8		10 - 130				10/14/25 03:45	10/19/25 08:05	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID:) x -100-6(4100E259

Lab Sample ID: 500-276137-1E

Date Collected: 10/0E/25 11:10

) atNr : x ateM

Date Received: 10/13/25 0E:20

) etPod: ATy 1633y - TeM and Tolf WuomAl. f l Substances bf LC/) S/) S

y nalf te	Result	8 ualiieM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
Perfluorobutanoic acid (PFBA)	<3.6		3.6	0.34	ng/L		10/14/25 03:45	10/19/25 09:27	1
Perfluoropentanoic acid (PFPeA)	<1.8		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 09:27	1
Perfluorohexanoic acid (PFHxA)	<1.8		1.8	0.24	ng/L		10/14/25 03:45	10/19/25 09:27	1
Perfluoroheptanoic acid (PFHpA)	<1.8		1.8	0.31	ng/L		10/14/25 03:45	10/19/25 09:27	1
Perfluorooctanoic acid (PFOA)	<1.8		1.8	0.36	ng/L		10/14/25 03:45	10/19/25 09:27	1
Perfluorononanoic acid (PFNA)	<1.8		1.8	0.41	ng/L		10/14/25 03:45	10/19/25 09:27	1
Perfluorodecanoic acid (PFDA)	<1.8		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 09:27	1
Perfluoroundecanoic acid (PFUnA)	<1.8		1.8	0.21	ng/L		10/14/25 03:45	10/19/25 09:27	1
Perfluorododecanoic acid (PFDoA)	<1.8		1.8	0.50	ng/L		10/14/25 03:45	10/19/25 09:27	1
Perfluorotridecanoic acid (PFTriA)	<1.8		1.8	0.52	ng/L		10/14/25 03:45	10/19/25 09:27	1
Perfluorotetradecanoic acid (PFTeA)	<1.8		1.8	0.73	ng/L		10/14/25 03:45	10/19/25 09:27	1
Perfluorobutanesulfonic acid (PFBS)	<1.8		1.8	0.49	ng/L		10/14/25 03:45	10/19/25 09:27	1
Perfluoropentanesulfonic acid (PFPeS)	<1.8		1.8	0.19	ng/L		10/14/25 03:45	10/19/25 09:27	1
Perfluorohexanesulfonic acid (PFHxS)	<1.8		1.8	0.22	ng/L		10/14/25 03:45	10/19/25 09:27	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.8		1.8	0.16	ng/L		10/14/25 03:45	10/19/25 09:27	1
Perfluorooctanesulfonic acid (PFOS)	<1.8		1.8	0.25	ng/L		10/14/25 03:45	10/19/25 09:27	1
Perfluorononanesulfonic acid (PFNS)	<1.8		1.8	0.28	ng/L		10/14/25 03:45	10/19/25 09:27	1
Perfluorodecanesulfonic acid (PFDS)	<1.8		1.8	0.28	ng/L		10/14/25 03:45	10/19/25 09:27	1
Perfluorododecanesulfonic acid (PFDoS)	<1.8		1.8	0.48	ng/L		10/14/25 03:45	10/19/25 09:27	1
4:2 FTS	<3.6		3.6	0.40	ng/L		10/14/25 03:45	10/19/25 09:27	1
6:2 FTS	<3.6		3.6	0.37	ng/L		10/14/25 03:45	10/19/25 09:27	1
8:2 FTS	<3.6		3.6	0.81	ng/L		10/14/25 03:45	10/19/25 09:27	1
Perfluorooctanesulfonamide (FOSA)	<1.8		1.8	0.20	ng/L		10/14/25 03:45	10/19/25 09:27	1
NMeFOSA	<1.8		1.8	0.35	ng/L		10/14/25 03:45	10/19/25 09:27	1
NEtFOSA	<1.8		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 09:27	1
NMeFOSAA	<1.8		1.8	0.32	ng/L		10/14/25 03:45	10/19/25 09:27	1
NEtFOSAA	<1.8		1.8	0.40	ng/L		10/14/25 03:45	10/19/25 09:27	1
NMeFOSE	<9.1		9.1	2.1	ng/L		10/14/25 03:45	10/19/25 09:27	1
NEtFOSE	<9.1		9.1	2.2	ng/L		10/14/25 03:45	10/19/25 09:27	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.4		1.4	0.35	ng/L		10/14/25 03:45	10/19/25 09:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.8		1.8	0.36	ng/L		10/14/25 03:45	10/19/25 09:27	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.8		1.8	0.17	ng/L		10/14/25 03:45	10/19/25 09:27	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.8		1.8	0.23	ng/L		10/14/25 03:45	10/19/25 09:27	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.8		1.8	0.65	ng/L		10/14/25 03:45	10/19/25 09:27	1
F-53B Major	<1.8		1.8	0.53	ng/L		10/14/25 03:45	10/19/25 09:27	1
F-53B Minor	<1.8		1.8	0.27	ng/L		10/14/25 03:45	10/19/25 09:27	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<1.8		1.8	0.23	ng/L		10/14/25 03:45	10/19/25 09:27	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.6		3.6	0.65	ng/L		10/14/25 03:45	10/19/25 09:27	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<9.1		9.1	1.6	ng/L		10/14/25 03:45	10/19/25 09:27	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<9.1		9.1	1.1	ng/L		10/14/25 03:45	10/19/25 09:27	1

Eurofins Chicago

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID:) x -100-6(4100E259

Lab Sample ID: 500-276137-1E

Date Collected: 10/0E/25 11:10

) atNr : x ateM

Date Received: 10/13/25 0E:20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	78.8		5 - 130	10/14/25 03:45	10/19/25 09:27	1
13C5 PFPeA	99.8		40 - 130	10/14/25 03:45	10/19/25 09:27	1
13C5 PFHxA	97.0		40 - 130	10/14/25 03:45	10/19/25 09:27	1
13C4 PFHpA	117		40 - 130	10/14/25 03:45	10/19/25 09:27	1
13C8 PFOA	97.0		40 - 130	10/14/25 03:45	10/19/25 09:27	1
13C9 PFNA	91.0		40 - 130	10/14/25 03:45	10/19/25 09:27	1
13C6 PFDA	88.8		40 - 130	10/14/25 03:45	10/19/25 09:27	1
13C7 PFUnA	76.1		30 - 130	10/14/25 03:45	10/19/25 09:27	1
13C2 PFDoA	87.8		10 - 130	10/14/25 03:45	10/19/25 09:27	1
13C2 PFTeDA	80.7		10 - 130	10/14/25 03:45	10/19/25 09:27	1
13C3 PFBS	91.2		40 - 135	10/14/25 03:45	10/19/25 09:27	1
13C3 PFHxS	93.0		40 - 130	10/14/25 03:45	10/19/25 09:27	1
13C8 PFOS	103		40 - 130	10/14/25 03:45	10/19/25 09:27	1
13C8 FOSA	88.2		40 - 130	10/14/25 03:45	10/19/25 09:27	1
d3-NMeFOSAA	70.1		40 - 170	10/14/25 03:45	10/19/25 09:27	1
d5-NEtFOSAA	71.0		25 - 135	10/14/25 03:45	10/19/25 09:27	1
M2-4:2 FTS	78.8		40 - 200	10/14/25 03:45	10/19/25 09:27	1
M2-6:2 FTS	64.1		40 - 200	10/14/25 03:45	10/19/25 09:27	1
M2-8:2 FTS	84.6		40 - 300	10/14/25 03:45	10/19/25 09:27	1
13C3 HFPO-DA	91.7		40 - 130	10/14/25 03:45	10/19/25 09:27	1
d7-N-MeFOSE-M	65.8		10 - 130	10/14/25 03:45	10/19/25 09:27	1
d9-N-EtFOSE-M	63.9		10 - 130	10/14/25 03:45	10/19/25 09:27	1
d5-NEtPFOSA	65.1		10 - 130	10/14/25 03:45	10/19/25 09:27	1
d3-NMePFOSA	67.6		10 - 130	10/14/25 03:45	10/19/25 09:27	1

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID:) x -100-32 4100E259

Lab Sample ID: 500-276137-20

Date Collected: 10/0E/25 12:05

) atNr: x ateM

Date Received: 10/13/25 0E:20

) etPod: ATy 1633y - TeM and Tolf WuomAl. f l Substances bf LC/) S/) S

y nalf te	Result	8 ualiieM	RL	) DL	Bnit	D	TMpaMd	y nalf Qed	Dil Uac
TeMuoMbutanoic acid 4TUHy9	2B z		3.7	0.35	ng/L		10/14/25 03:45	10/19/25 09:44	1
TeMuoMpentanoic acid 4TUTey9	1E		1.9	0.21	ng/L		10/14/25 03:45	10/19/25 09:44	1
TeMuoMPeranoic acid 4TUOr y9	1B z		1.9	0.25	ng/L		10/14/25 03:45	10/19/25 09:44	1
TeMuoMPeptanoic acid 4TUOPY9	0B5 z		1.9	0.32	ng/L		10/14/25 03:45	10/19/25 09:44	1
TeMuoMoctanoic acid 4TUJ y9	2B		1.9	0.36	ng/L		10/14/25 03:45	10/19/25 09:44	1
Perfluorononanoic acid (PFNA)	<1.9		1.9	0.42	ng/L		10/14/25 03:45	10/19/25 09:44	1
Perfluorodecanoic acid (PFDA)	<1.9		1.9	0.41	ng/L		10/14/25 03:45	10/19/25 09:44	1
Perfluoroundecanoic acid (PFUnA)	<1.9		1.9	0.21	ng/L		10/14/25 03:45	10/19/25 09:44	1
Perfluorododecanoic acid (PFDoA)	<1.9		1.9	0.51	ng/L		10/14/25 03:45	10/19/25 09:44	1
Perfluorotridecanoic acid (PFTriA)	<1.9		1.9	0.53	ng/L		10/14/25 03:45	10/19/25 09:44	1
Perfluorotetradecanoic acid (PFTeA)	<1.9		1.9	0.75	ng/L		10/14/25 03:45	10/19/25 09:44	1
Perfluorobutanesulfonic acid (PFBS)	<1.9		1.9	0.50	ng/L		10/14/25 03:45	10/19/25 09:44	1
Perfluoropentanesulfonic acid (PFPeS)	<1.9		1.9	0.20	ng/L		10/14/25 03:45	10/19/25 09:44	1
TeMuoMPeranesulfonic acid 4TUOr S9	0B3 z		1.9	0.23	ng/L		10/14/25 03:45	10/19/25 09:44	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.9		1.9	0.16	ng/L		10/14/25 03:45	10/19/25 09:44	1
Perfluorooctanesulfonic acid (PFOS)	<1.9		1.9	0.26	ng/L		10/14/25 03:45	10/19/25 09:44	1
Perfluorononanesulfonic acid (PFNS)	<1.9		1.9	0.29	ng/L		10/14/25 03:45	10/19/25 09:44	1
Perfluorodecanesulfonic acid (PFDS)	<1.9		1.9	0.29	ng/L		10/14/25 03:45	10/19/25 09:44	1
Perfluorododecanesulfonic acid (PFDoS)	<1.9		1.9	0.49	ng/L		10/14/25 03:45	10/19/25 09:44	1
4:2 FTS	<3.7		3.7	0.40	ng/L		10/14/25 03:45	10/19/25 09:44	1
6:2 FTS	<3.7		3.7	0.37	ng/L		10/14/25 03:45	10/19/25 09:44	1
8:2 FTS	<3.7		3.7	0.83	ng/L		10/14/25 03:45	10/19/25 09:44	1
Perfluorooctanesulfonamide (FOSA)	<1.9		1.9	0.21	ng/L		10/14/25 03:45	10/19/25 09:44	1
NMeFOSA	<1.9		1.9	0.36	ng/L		10/14/25 03:45	10/19/25 09:44	1
NEtFOSA	<1.9		1.9	0.41	ng/L		10/14/25 03:45	10/19/25 09:44	1
NMeFOSAA	<1.9		1.9	0.32	ng/L		10/14/25 03:45	10/19/25 09:44	1
NEtFOSAA	<1.9		1.9	0.41	ng/L		10/14/25 03:45	10/19/25 09:44	1
NMeFOSE	<9.3		9.3	2.1	ng/L		10/14/25 03:45	10/19/25 09:44	1
NEtFOSE	<9.3		9.3	2.2	ng/L		10/14/25 03:45	10/19/25 09:44	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.4		1.4	0.36	ng/L		10/14/25 03:45	10/19/25 09:44	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.9		1.9	0.37	ng/L		10/14/25 03:45	10/19/25 09:44	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.9		1.9	0.18	ng/L		10/14/25 03:45	10/19/25 09:44	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.9		1.9	0.24	ng/L		10/14/25 03:45	10/19/25 09:44	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.9		1.9	0.67	ng/L		10/14/25 03:45	10/19/25 09:44	1
F-53B Major	<1.9		1.9	0.54	ng/L		10/14/25 03:45	10/19/25 09:44	1
F-53B Minor	<1.9		1.9	0.27	ng/L		10/14/25 03:45	10/19/25 09:44	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.9		1.9	0.23	ng/L		10/14/25 03:45	10/19/25 09:44	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.7		3.7	0.67	ng/L		10/14/25 03:45	10/19/25 09:44	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<9.3		9.3	1.6	ng/L		10/14/25 03:45	10/19/25 09:44	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<9.3		9.3	1.1	ng/L		10/14/25 03:45	10/19/25 09:44	1

Eurofins Chicago

Client Sample Results

Client: Arcadis US Inc.
Project/Site: Marinette, WI 30275785.4.2.1

Job ID: 500-276137-1

Client Sample ID:) x -100-32 4100E259

Lab Sample ID: 500-276137-20

Date Collected: 10/0E/25 12:05

) atNr : x ateM

Date Received: 10/13/25 0E:20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	79.8		5 - 130	10/14/25 03:45	10/19/25 09:44	1
13C5 PFPeA	99.4		40 - 130	10/14/25 03:45	10/19/25 09:44	1
13C5 PFHxA	102		40 - 130	10/14/25 03:45	10/19/25 09:44	1
13C4 PFHpA	92.5		40 - 130	10/14/25 03:45	10/19/25 09:44	1
13C8 PFOA	93.4		40 - 130	10/14/25 03:45	10/19/25 09:44	1
13C9 PFNA	85.0		40 - 130	10/14/25 03:45	10/19/25 09:44	1
13C6 PFDA	75.8		40 - 130	10/14/25 03:45	10/19/25 09:44	1
13C7 PFUnA	72.7		30 - 130	10/14/25 03:45	10/19/25 09:44	1
13C2 PFDoA	76.1		10 - 130	10/14/25 03:45	10/19/25 09:44	1
13C2 PFTeDA	55.7		10 - 130	10/14/25 03:45	10/19/25 09:44	1
13C3 PFBS	77.6		40 - 135	10/14/25 03:45	10/19/25 09:44	1
13C3 PFHxS	76.1		40 - 130	10/14/25 03:45	10/19/25 09:44	1
13C8 PFOS	82.9		40 - 130	10/14/25 03:45	10/19/25 09:44	1
13C8 FOSA	76.1		40 - 130	10/14/25 03:45	10/19/25 09:44	1
d3-NMeFOSAA	65.8		40 - 170	10/14/25 03:45	10/19/25 09:44	1
d5-NEtFOSAA	64.1		25 - 135	10/14/25 03:45	10/19/25 09:44	1
M2-4:2 FTS	93.2		40 - 200	10/14/25 03:45	10/19/25 09:44	1
M2-6:2 FTS	59.9		40 - 200	10/14/25 03:45	10/19/25 09:44	1
M2-8:2 FTS	79.5		40 - 300	10/14/25 03:45	10/19/25 09:44	1
13C3 HFPO-DA	97.1		40 - 130	10/14/25 03:45	10/19/25 09:44	1
d7-N-MeFOSE-M	40.0		10 - 130	10/14/25 03:45	10/19/25 09:44	1
d9-N-EtFOSE-M	28.4		10 - 130	10/14/25 03:45	10/19/25 09:44	1
d5-NEtPFOSA	49.8		10 - 130	10/14/25 03:45	10/19/25 09:44	1
d3-NMePFOSA	52.1		10 - 130	10/14/25 03:45	10/19/25 09:44	1