

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: 07/31/2025

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 May 8 and May 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.

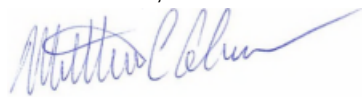
Thank you for your patience and assistance with our investigation. We will continue to provide updates to the community as our work continues.

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 Eurofins Environment Testing 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 these locations 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 (050925) 05/09/2025 N	PZ-72-73 PZ-72-73 (050825) 05/08/2025 N	PZ-73-32 PZ-73-32 (050825) 05/08/2025 N	PZ-74-32 PZ-74-32 (050825) 05/08/2025 N	PZ-74-32 DUP-03-LTM (050825) PZ-74-32 (050825) 05/08/2025 FD	PZ-74-80 PZ-74-80 (050825) 05/08/2025 N
Analyte		Units						
PFBA	--	ng/L	3.8	50	13	26	26	8.0
PFPeA	--	ng/L	< 1.6 U	120	4.9	48	53	15
PFHxA	--	ng/L	1.3 J	140	4.2	50	46	13
PFHpA	--	ng/L	0.65 J	63	2.2	41	38	14
PFOA	4	ng/L	2.1	390	3.4	130	110	24
PFNA	10	ng/L	< 1.6 U	29	1.3 J	16	16	2.2
PFDA	--	ng/L	< 1.6 U	< 1.6 U	< 1.6 U	1.9	1.9	< 1.6 U
PFUnA	--	ng/L	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U
PFDoA	--	ng/L	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U
PFTriA	--	ng/L	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U
PFTeA	--	ng/L	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U
PFBS	2,000	ng/L	< 1.6 U	5.1	0.71 J	1.9	1.7	0.60 J
PFPeS	--	ng/L	< 1.6 U	5.4	< 1.6 U	2.3	2.1	0.38 J
PFHxS	10	ng/L	0.37 J	35	0.53 J	18	19	2.4
PFHpS	--	ng/L	< 1.6 U	0.94 J	< 1.6 U	1.0 J	0.93 J	< 1.6 U
PFOS	4	ng/L	0.60 J	3.0	1.6	39	40	0.93 J
PFNS	--	ng/L	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U
PFDS	--	ng/L	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U
PFDoS	--	ng/L	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U
4:2 FTS	--	ng/L	< 3.2 U	15	< 3.2 U	1.7 J	1.9 J	< 3.2 U
6:2 FTS	--	ng/L	< 3.2 U	970	0.37 J	110	110	15
8:2 FTS	--	ng/L	< 3.2 U	< 3.2 U	< 3.2 U	40	37	0.74 J
FOSA	--	ng/L	< 1.6 U	< 1.6 U	< 1.6 U	0.80 J	0.72 J	< 1.6 U
NMeFOSA	--	ng/L	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U
NEtFOSA	--	ng/L	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U
NMeFOSAA	--	ng/L	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U
NEtFOSAA	--	ng/L	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U
NMeFOSE	--	ng/L	< 7.9 U	< 7.9 U	< 8.0 U	< 8.0 U	< 7.9 U	< 7.9 U
NEtFOSE	--	ng/L	< 7.9 U	< 7.9 U	< 8.0 U	< 8.0 U	< 7.9 U	< 7.9 U
PFMPA	--	ng/L	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U
PFMBA	--	ng/L	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U
NFDHA	--	ng/L	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U
HFPO-DA	10	ng/L	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U	< 1.2 U
DONA	--	ng/L	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U
PFEESA	--	ng/L	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U
9CI-PF3ONS	--	ng/L	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U
11CI-PF3OUdS	--	ng/L	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U	< 1.6 U
3:3 FTCA	--	ng/L	< 3.2 U	< 3.2 U	< 3.2 U	< 3.2 U	< 3.2 U	< 3.2 U
5:3 FTCA	--	ng/L	< 7.9 U	1.7 J	< 8.0 U	< 8.0 U	< 7.9 U	< 7.9 U
7:3 FTCA	--	ng/L	< 7.9 U	< 7.9 U	< 8.0 U	< 8.0 U	< 7.9 U	< 7.9 U

Notes:

< = Compound not detected at reporting detection limit.

(1) In February 2025, WDHS recommended individual groundwater standards of 4 ng/L for PFOA and PFOS, 10 ng/L for PFHxS, PFNA, and HFPO-DA, and 2,000 ng/L for PFBS. Following the February 2025 WDHS recommendation, the WDNR Secretary and the Governor signed the WDNR scope statement and WDNR is in the early stages of rule development for these groundwater standards.

-- = No standard

N = Normal sample

ng/L = nanograms per liter

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

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

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-dioxaheptanoic 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

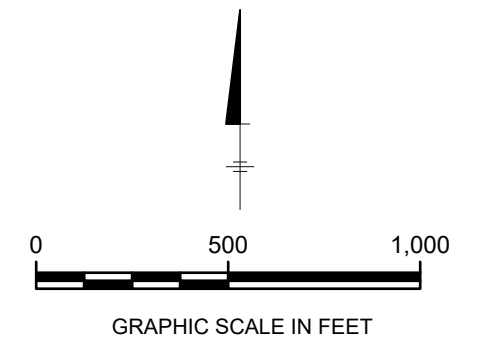
T:_ENV\TYCO\PRO_REPORT_FIGURES\FTO\Results_Letter\Monitoring_Locations.aprx 7/24/2025 9:58 AM



- LEGEND:**
- OVERBURDEN MONITORING WELL
 - ▭ APPROXIMATE MARINETTE CITY BOUNDARY
 - ROAD

NOTES:

1. AERIAL IMAGERY GOOGLE EARTH.



TYCO FIRE TECHNOLOGY CENTER
MARINETTE, WISCONSIN

MONITORING LOCATIONS



FIGURE
1

Client Sample Results

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

Job ID: 500-268114-1

Client Sample ID: PZ-74-80 (050825)

Lab Sample ID: 500-268114-1

Date Collected: 05/08/25 10:40

Matrix: Water

Date Received: 05/09/25 09:35

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)	8.0		3.2	0.30	ng/L		05/12/25 19:25	05/14/25 04:25	1
Perfluoropentanoic acid (PFPeA)	15		1.6	0.18	ng/L		05/12/25 19:25	05/14/25 04:25	1
Perfluorohexanoic acid (PFHxA)	13		1.6	0.21	ng/L		05/12/25 19:25	05/14/25 04:25	1
Perfluoroheptanoic acid (PFHpA)	14		1.6	0.27	ng/L		05/12/25 19:25	05/14/25 04:25	1
Perfluorooctanoic acid (PFOA)	24		1.6	0.31	ng/L		05/12/25 19:25	05/14/25 04:25	1
Perfluorononanoic acid (PFNA)	2.2		1.6	0.36	ng/L		05/12/25 19:25	05/14/25 04:25	1
Perfluorodecanoic acid (PFDA)	<1.6		1.6	0.35	ng/L		05/12/25 19:25	05/14/25 04:25	1
Perfluoroundecanoic acid (PFUnA)	<1.6		1.6	0.18	ng/L		05/12/25 19:25	05/14/25 04:25	1
Perfluorododecanoic acid (PFDoA)	<1.6		1.6	0.44	ng/L		05/12/25 19:25	05/14/25 04:25	1
Perfluorotridecanoic acid (PFTriA)	<1.6		1.6	0.46	ng/L		05/12/25 19:25	05/14/25 04:25	1
Perfluorotetradecanoic acid (PFTeA)	<1.6		1.6	0.64	ng/L		05/12/25 19:25	05/14/25 04:25	1
Perfluorobutanesulfonic acid (PFBS)	0.60	J	1.6	0.22	ng/L		05/12/25 19:25	05/14/25 04:25	1
Perfluoropentanesulfonic acid (PFPeS)	0.38	J I	1.6	0.17	ng/L		05/12/25 19:25	05/14/25 04:25	1
Perfluorohexanesulfonic acid (PFHxS)	2.4		1.6	0.19	ng/L		05/12/25 19:25	05/14/25 04:25	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.6		1.6	0.14	ng/L		05/12/25 19:25	05/14/25 04:25	1
Perfluorooctanesulfonic acid (PFOS)	0.93	J	1.6	0.22	ng/L		05/12/25 19:25	05/14/25 04:25	1
Perfluorononanesulfonic acid (PFNS)	<1.6		1.6	0.25	ng/L		05/12/25 19:25	05/14/25 04:25	1
Perfluorodecanesulfonic acid (PFDS)	<1.6		1.6	0.25	ng/L		05/12/25 19:25	05/14/25 04:25	1
Perfluorododecanesulfonic acid (PFDoS)	<1.6		1.6	0.42	ng/L		05/12/25 19:25	05/14/25 04:25	1
4:2 FTS	<3.2		3.2	0.35	ng/L		05/12/25 19:25	05/14/25 04:25	1
6:2 FTS	15		3.2	0.32	ng/L		05/12/25 19:25	05/14/25 04:25	1
8:2 FTS	0.74	J	3.2	0.71	ng/L		05/12/25 19:25	05/14/25 04:25	1
Perfluorooctanesulfonamide (FOSA)	<1.6		1.6	0.18	ng/L		05/12/25 19:25	05/14/25 04:25	1
NMeFOSA	<1.6		1.6	0.31	ng/L		05/12/25 19:25	05/14/25 04:25	1
NEtFOSA	<1.6		1.6	0.35	ng/L		05/12/25 19:25	05/14/25 04:25	1
NMeFOSAA	<1.6		1.6	0.28	ng/L		05/12/25 19:25	05/14/25 04:25	1
NEtFOSAA	<1.6		1.6	0.35	ng/L		05/12/25 19:25	05/14/25 04:25	1
NMeFOSE	<7.9		7.9	1.8	ng/L		05/12/25 19:25	05/14/25 04:25	1
NEtFOSE	<7.9		7.9	1.9	ng/L		05/12/25 19:25	05/14/25 04:25	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.2		1.2	0.31	ng/L		05/12/25 19:25	05/14/25 04:25	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.6		1.6	0.32	ng/L		05/12/25 19:25	05/14/25 04:25	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.6		1.6	0.15	ng/L		05/12/25 19:25	05/14/25 04:25	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.6		1.6	0.20	ng/L		05/12/25 19:25	05/14/25 04:25	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.6		1.6	0.57	ng/L		05/12/25 19:25	05/14/25 04:25	1
F-53B Major	<1.6		1.6	0.46	ng/L		05/12/25 19:25	05/14/25 04:25	1
F-53B Minor	<1.6		1.6	0.24	ng/L		05/12/25 19:25	05/14/25 04:25	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.6		1.6	0.20	ng/L		05/12/25 19:25	05/14/25 04:25	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.2		3.2	0.57	ng/L		05/12/25 19:25	05/14/25 04:25	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<7.9		7.9	1.4	ng/L		05/12/25 19:25	05/14/25 04:25	1

Eurofins Chicago

Client Sample Results

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

Job ID: 500-268114-1

Client Sample ID: PZ-74-80 (050825)

Lab Sample ID: 500-268114-1

Date Collected: 05/08/25 10:40

Matrix: Water

Date Received: 05/09/25 09:35

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		05/12/25 19:25	05/14/25 04:25	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	98.3		5 - 130				05/12/25 19:25	05/14/25 04:25	1
13C5 PFPeA	98.0		40 - 130				05/12/25 19:25	05/14/25 04:25	1
13C5 PFHxA	97.9		40 - 130				05/12/25 19:25	05/14/25 04:25	1
13C4 PFHpA	92.3		40 - 130				05/12/25 19:25	05/14/25 04:25	1
13C8 PFOA	96.0		40 - 130				05/12/25 19:25	05/14/25 04:25	1
13C9 PFNA	97.8		40 - 130				05/12/25 19:25	05/14/25 04:25	1
13C6 PFDA	112		40 - 130				05/12/25 19:25	05/14/25 04:25	1
13C7 PFUnA	107		30 - 130				05/12/25 19:25	05/14/25 04:25	1
13C2 PFDoA	92.6		10 - 130				05/12/25 19:25	05/14/25 04:25	1
13C2 PFTeDA	80.2		10 - 130				05/12/25 19:25	05/14/25 04:25	1
13C3 PFBS	99.2		40 - 135				05/12/25 19:25	05/14/25 04:25	1
13C3 PFHxS	101		40 - 130				05/12/25 19:25	05/14/25 04:25	1
13C8 PFOS	93.0		40 - 130				05/12/25 19:25	05/14/25 04:25	1
13C8 FOSA	85.0		40 - 130				05/12/25 19:25	05/14/25 04:25	1
d3-NMeFOSAA	83.6		40 - 170				05/12/25 19:25	05/14/25 04:25	1
d5-NEtFOSAA	81.4		25 - 135				05/12/25 19:25	05/14/25 04:25	1
M2-4:2 FTS	117		40 - 200				05/12/25 19:25	05/14/25 04:25	1
M2-6:2 FTS	105		40 - 200				05/12/25 19:25	05/14/25 04:25	1
M2-8:2 FTS	105		40 - 300				05/12/25 19:25	05/14/25 04:25	1
13C3 HFPO-DA	93.2		40 - 130				05/12/25 19:25	05/14/25 04:25	1
d7-N-MeFOSE-M	76.7		10 - 130				05/12/25 19:25	05/14/25 04:25	1
d9-N-EtFOSE-M	66.3		10 - 130				05/12/25 19:25	05/14/25 04:25	1
d5-NEtPFOSA	73.3		10 - 130				05/12/25 19:25	05/14/25 04:25	1
d3-NMePFOSA	68.4		10 - 130				05/12/25 19:25	05/14/25 04:25	1

Client Sample Results

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

Job ID: 500-268114-1

Client Sample ID: PZ-74-32 (050825)

Lab Sample ID: 500-268114-2

Date Collected: 05/08/25 11:15

Matrix: Water

Date Received: 05/09/25 09:35

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)	26		3.2	0.30	ng/L		05/12/25 19:25	05/14/25 04:42	1
Perfluoropentanoic acid (PFPeA)	48		1.6	0.19	ng/L		05/12/25 19:25	05/14/25 04:42	1
Perfluorohexanoic acid (PFHxA)	50		1.6	0.22	ng/L		05/12/25 19:25	05/14/25 04:42	1
Perfluoroheptanoic acid (PFHpA)	41		1.6	0.28	ng/L		05/12/25 19:25	05/14/25 04:42	1
Perfluorooctanoic acid (PFOA)	130		1.6	0.31	ng/L		05/12/25 19:25	05/14/25 04:42	1
Perfluorononanoic acid (PFNA)	16		1.6	0.36	ng/L		05/12/25 19:25	05/14/25 04:42	1
Perfluorodecanoic acid (PFDA)	1.9		1.6	0.35	ng/L		05/12/25 19:25	05/14/25 04:42	1
Perfluoroundecanoic acid (PFUnA)	<1.6		1.6	0.18	ng/L		05/12/25 19:25	05/14/25 04:42	1
Perfluorododecanoic acid (PFDoA)	<1.6		1.6	0.44	ng/L		05/12/25 19:25	05/14/25 04:42	1
Perfluorotridecanoic acid (PFTriA)	<1.6		1.6	0.46	ng/L		05/12/25 19:25	05/14/25 04:42	1
Perfluorotetradecanoic acid (PFTeA)	<1.6		1.6	0.65	ng/L		05/12/25 19:25	05/14/25 04:42	1
Perfluorobutanesulfonic acid (PFBS)	1.9		1.6	0.22	ng/L		05/12/25 19:25	05/14/25 04:42	1
Perfluoropentanesulfonic acid (PFPeS)	2.3		1.6	0.17	ng/L		05/12/25 19:25	05/14/25 04:42	1
Perfluorohexanesulfonic acid (PFHxS)	18		1.6	0.20	ng/L		05/12/25 19:25	05/14/25 04:42	1
Perfluoroheptanesulfonic acid (PFHpS)	1.0 J		1.6	0.14	ng/L		05/12/25 19:25	05/14/25 04:42	1
Perfluorooctanesulfonic acid (PFOS)	39		1.6	0.22	ng/L		05/12/25 19:25	05/14/25 04:42	1
Perfluorononanesulfonic acid (PFNS)	<1.6		1.6	0.25	ng/L		05/12/25 19:25	05/14/25 04:42	1
Perfluorodecanesulfonic acid (PFDS)	<1.6		1.6	0.25	ng/L		05/12/25 19:25	05/14/25 04:42	1
Perfluorododecanesulfonic acid (PFDoS)	<1.6		1.6	0.42	ng/L		05/12/25 19:25	05/14/25 04:42	1
4:2 FTS	1.7 J		3.2	0.35	ng/L		05/12/25 19:25	05/14/25 04:42	1
6:2 FTS	110		3.2	0.32	ng/L		05/12/25 19:25	05/14/25 04:42	1
8:2 FTS	40		3.2	0.72	ng/L		05/12/25 19:25	05/14/25 04:42	1
Perfluorooctanesulfonamide (FOSA)	0.80 J		1.6	0.18	ng/L		05/12/25 19:25	05/14/25 04:42	1
NMeFOSA	<1.6		1.6	0.31	ng/L		05/12/25 19:25	05/14/25 04:42	1
NEtFOSA	<1.6		1.6	0.36	ng/L		05/12/25 19:25	05/14/25 04:42	1
NMeFOSAA	<1.6		1.6	0.28	ng/L		05/12/25 19:25	05/14/25 04:42	1
NEtFOSAA	<1.6		1.6	0.35	ng/L		05/12/25 19:25	05/14/25 04:42	1
NMeFOSE	<8.0		8.0	1.8	ng/L		05/12/25 19:25	05/14/25 04:42	1
NEtFOSE	<8.0		8.0	1.9	ng/L		05/12/25 19:25	05/14/25 04:42	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.2		1.2	0.31	ng/L		05/12/25 19:25	05/14/25 04:42	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.6		1.6	0.32	ng/L		05/12/25 19:25	05/14/25 04:42	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.6		1.6	0.15	ng/L		05/12/25 19:25	05/14/25 04:42	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.6		1.6	0.21	ng/L		05/12/25 19:25	05/14/25 04:42	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.6		1.6	0.58	ng/L		05/12/25 19:25	05/14/25 04:42	1
F-53B Major	<1.6		1.6	0.46	ng/L		05/12/25 19:25	05/14/25 04:42	1
F-53B Minor	<1.6		1.6	0.24	ng/L		05/12/25 19:25	05/14/25 04:42	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.6		1.6	0.20	ng/L		05/12/25 19:25	05/14/25 04:42	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.2		3.2	0.58	ng/L		05/12/25 19:25	05/14/25 04:42	1

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Client Sample Results

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

Job ID: 500-268114-1

Client Sample ID: PZ-74-32 (050825)

Lab Sample ID: 500-268114-2

Date Collected: 05/08/25 11:15

Matrix: Water

Date Received: 05/09/25 09:35

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)	<8.0		8.0	1.4	ng/L		05/12/25 19:25	05/14/25 04:42	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<8.0		8.0	0.99	ng/L		05/12/25 19:25	05/14/25 04:42	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	97.6		5 - 130				05/12/25 19:25	05/14/25 04:42	1
13C5 PFPeA	102		40 - 130				05/12/25 19:25	05/14/25 04:42	1
13C5 PFHxA	100		40 - 130				05/12/25 19:25	05/14/25 04:42	1
13C4 PFHpA	92.9		40 - 130				05/12/25 19:25	05/14/25 04:42	1
13C8 PFOA	91.4		40 - 130				05/12/25 19:25	05/14/25 04:42	1
13C9 PFNA	96.8		40 - 130				05/12/25 19:25	05/14/25 04:42	1
13C6 PFDA	112		40 - 130				05/12/25 19:25	05/14/25 04:42	1
13C7 PFUnA	102		30 - 130				05/12/25 19:25	05/14/25 04:42	1
13C2 PFDoA	88.5		10 - 130				05/12/25 19:25	05/14/25 04:42	1
13C2 PFTeDA	74.3		10 - 130				05/12/25 19:25	05/14/25 04:42	1
13C3 PFBS	99.4		40 - 135				05/12/25 19:25	05/14/25 04:42	1
13C3 PFHxS	104		40 - 130				05/12/25 19:25	05/14/25 04:42	1
13C8 PFOS	93.9		40 - 130				05/12/25 19:25	05/14/25 04:42	1
13C8 FOSA	84.3		40 - 130				05/12/25 19:25	05/14/25 04:42	1
d3-NMeFOSAA	82.3		40 - 170				05/12/25 19:25	05/14/25 04:42	1
d5-NEtFOSAA	77.9		25 - 135				05/12/25 19:25	05/14/25 04:42	1
M2-4:2 FTS	116		40 - 200				05/12/25 19:25	05/14/25 04:42	1
M2-6:2 FTS	103		40 - 200				05/12/25 19:25	05/14/25 04:42	1
M2-8:2 FTS	104		40 - 300				05/12/25 19:25	05/14/25 04:42	1
13C3 HFPO-DA	94.4		40 - 130				05/12/25 19:25	05/14/25 04:42	1
d7-N-MeFOSE-M	73.4		10 - 130				05/12/25 19:25	05/14/25 04:42	1
d9-N-EtFOSE-M	64.8		10 - 130				05/12/25 19:25	05/14/25 04:42	1
d5-NEtPFOSA	69.4		10 - 130				05/12/25 19:25	05/14/25 04:42	1
d3-NMePFOSA	70.3		10 - 130				05/12/25 19:25	05/14/25 04:42	1

Client Sample Results

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

Job ID: 500-268114-1

Client Sample ID: DUP-03-LTM (050825)

Lab Sample ID: 500-268114-4

Date Collected: 05/08/25 00:00

Matrix: Water

Date Received: 05/09/25 09:35

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)	26		3.2	0.29	ng/L		05/12/25 19:25	05/14/25 05:15	1
Perfluoropentanoic acid (PFPeA)	53		1.6	0.18	ng/L		05/12/25 19:25	05/14/25 05:15	1
Perfluorohexanoic acid (PFHxA)	46		1.6	0.21	ng/L		05/12/25 19:25	05/14/25 05:15	1
Perfluoroheptanoic acid (PFHpA)	38		1.6	0.27	ng/L		05/12/25 19:25	05/14/25 05:15	1
Perfluorooctanoic acid (PFOA)	110		1.6	0.31	ng/L		05/12/25 19:25	05/14/25 05:15	1
Perfluorononanoic acid (PFNA)	16		1.6	0.36	ng/L		05/12/25 19:25	05/14/25 05:15	1
Perfluorodecanoic acid (PFDA)	1.9		1.6	0.35	ng/L		05/12/25 19:25	05/14/25 05:15	1
Perfluoroundecanoic acid (PFUnA)	<1.6		1.6	0.18	ng/L		05/12/25 19:25	05/14/25 05:15	1
Perfluorododecanoic acid (PFDoA)	<1.6		1.6	0.44	ng/L		05/12/25 19:25	05/14/25 05:15	1
Perfluorotridecanoic acid (PFTriA)	<1.6		1.6	0.46	ng/L		05/12/25 19:25	05/14/25 05:15	1
Perfluorotetradecanoic acid (PFTeA)	<1.6		1.6	0.64	ng/L		05/12/25 19:25	05/14/25 05:15	1
Perfluorobutanesulfonic acid (PFBS)	1.7		1.6	0.22	ng/L		05/12/25 19:25	05/14/25 05:15	1
Perfluoropentanesulfonic acid (PFPeS)	2.1		1.6	0.17	ng/L		05/12/25 19:25	05/14/25 05:15	1
Perfluorohexanesulfonic acid (PFHxS)	19		1.6	0.19	ng/L		05/12/25 19:25	05/14/25 05:15	1
Perfluoroheptanesulfonic acid (PFHpS)	0.93	J	1.6	0.14	ng/L		05/12/25 19:25	05/14/25 05:15	1
Perfluorooctanesulfonic acid (PFOS)	40		1.6	0.22	ng/L		05/12/25 19:25	05/14/25 05:15	1
Perfluorononanesulfonic acid (PFNS)	<1.6		1.6	0.25	ng/L		05/12/25 19:25	05/14/25 05:15	1
Perfluorodecanesulfonic acid (PFDS)	<1.6		1.6	0.25	ng/L		05/12/25 19:25	05/14/25 05:15	1
Perfluorododecanesulfonic acid (PFDoS)	<1.6		1.6	0.42	ng/L		05/12/25 19:25	05/14/25 05:15	1
4:2 FTS	1.9	J	3.2	0.35	ng/L		05/12/25 19:25	05/14/25 05:15	1
6:2 FTS	110		3.2	0.32	ng/L		05/12/25 19:25	05/14/25 05:15	1
8:2 FTS	37		3.2	0.71	ng/L		05/12/25 19:25	05/14/25 05:15	1
Perfluorooctanesulfonamide (FOSA)	0.72	J I	1.6	0.18	ng/L		05/12/25 19:25	05/14/25 05:15	1
NMeFOSA	<1.6		1.6	0.30	ng/L		05/12/25 19:25	05/14/25 05:15	1
NEtFOSA	<1.6		1.6	0.35	ng/L		05/12/25 19:25	05/14/25 05:15	1
NMeFOSAA	<1.6		1.6	0.28	ng/L		05/12/25 19:25	05/14/25 05:15	1
NEtFOSAA	<1.6		1.6	0.35	ng/L		05/12/25 19:25	05/14/25 05:15	1
NMeFOSE	<7.9		7.9	1.8	ng/L		05/12/25 19:25	05/14/25 05:15	1
NEtFOSE	<7.9		7.9	1.9	ng/L		05/12/25 19:25	05/14/25 05:15	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.2		1.2	0.31	ng/L		05/12/25 19:25	05/14/25 05:15	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.6		1.6	0.32	ng/L		05/12/25 19:25	05/14/25 05:15	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.6		1.6	0.15	ng/L		05/12/25 19:25	05/14/25 05:15	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.6		1.6	0.20	ng/L		05/12/25 19:25	05/14/25 05:15	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.6		1.6	0.57	ng/L		05/12/25 19:25	05/14/25 05:15	1
F-53B Major	<1.6		1.6	0.46	ng/L		05/12/25 19:25	05/14/25 05:15	1
F-53B Minor	<1.6		1.6	0.23	ng/L		05/12/25 19:25	05/14/25 05:15	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.6		1.6	0.20	ng/L		05/12/25 19:25	05/14/25 05:15	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.2		3.2	0.57	ng/L		05/12/25 19:25	05/14/25 05:15	1

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Client Sample Results

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

Job ID: 500-268114-1

Client Sample ID: DUP-03-LTM (050825)

Lab Sample ID: 500-268114-4

Date Collected: 05/08/25 00:00

Matrix: Water

Date Received: 05/09/25 09:35

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)	<7.9		7.9	1.4	ng/L		05/12/25 19:25	05/14/25 05:15	1
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<7.9		7.9	0.98	ng/L		05/12/25 19:25	05/14/25 05:15	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	101		5 - 130				05/12/25 19:25	05/14/25 05:15	1
13C5 PFPeA	95.7		40 - 130				05/12/25 19:25	05/14/25 05:15	1
13C5 PFHxA	99.0		40 - 130				05/12/25 19:25	05/14/25 05:15	1
13C4 PFHpA	94.5		40 - 130				05/12/25 19:25	05/14/25 05:15	1
13C8 PFOA	99.5		40 - 130				05/12/25 19:25	05/14/25 05:15	1
13C9 PFNA	97.1		40 - 130				05/12/25 19:25	05/14/25 05:15	1
13C6 PFDA	112		40 - 130				05/12/25 19:25	05/14/25 05:15	1
13C7 PFUnA	108		30 - 130				05/12/25 19:25	05/14/25 05:15	1
13C2 PFDoA	92.9		10 - 130				05/12/25 19:25	05/14/25 05:15	1
13C2 PFTeDA	80.8		10 - 130				05/12/25 19:25	05/14/25 05:15	1
13C3 PFBS	105		40 - 135				05/12/25 19:25	05/14/25 05:15	1
13C3 PFHxS	102		40 - 130				05/12/25 19:25	05/14/25 05:15	1
13C8 PFOS	91.3		40 - 130				05/12/25 19:25	05/14/25 05:15	1
13C8 FOSA	84.7		40 - 130				05/12/25 19:25	05/14/25 05:15	1
d3-NMeFOSAA	82.4		40 - 170				05/12/25 19:25	05/14/25 05:15	1
d5-NEtFOSAA	81.6		25 - 135				05/12/25 19:25	05/14/25 05:15	1
M2-4:2 FTS	122		40 - 200				05/12/25 19:25	05/14/25 05:15	1
M2-6:2 FTS	101		40 - 200				05/12/25 19:25	05/14/25 05:15	1
M2-8:2 FTS	103		40 - 300				05/12/25 19:25	05/14/25 05:15	1
13C3 HFPO-DA	88.9		40 - 130				05/12/25 19:25	05/14/25 05:15	1
d7-N-MeFOSE-M	68.0		10 - 130				05/12/25 19:25	05/14/25 05:15	1
d9-N-EtFOSE-M	62.4		10 - 130				05/12/25 19:25	05/14/25 05:15	1
d5-NEtPFOSA	65.4		10 - 130				05/12/25 19:25	05/14/25 05:15	1
d3-NMePFOSA	65.4		10 - 130				05/12/25 19:25	05/14/25 05:15	1

Client Sample Results

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

Job ID: 500-268172-1

Client Sample ID: PZ-72-73 (050825)

Lab Sample ID: 500-268172-2

Date Collected: 05/08/25 15:20

Matrix: Water

Date Received: 05/10/25 09:10

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)	50		3.2	0.29	ng/L		05/13/25 19:47	05/16/25 01:33	1
Perfluoropentanoic acid (PFPeA)	120		1.6	0.18	ng/L		05/13/25 19:47	05/16/25 01:33	1
Perfluorohexanoic acid (PFHxA)	140		1.6	0.21	ng/L		05/13/25 19:47	05/16/25 01:33	1
Perfluoroheptanoic acid (PFHpA)	63		1.6	0.27	ng/L		05/13/25 19:47	05/16/25 01:33	1
Perfluorooctanoic acid (PFOA)	390 E		1.6	0.31	ng/L		05/13/25 19:47	05/16/25 01:33	1
Perfluorononanoic acid (PFNA)	29		1.6	0.36	ng/L		05/13/25 19:47	05/16/25 01:33	1
Perfluorodecanoic acid (PFDA)	<1.6		1.6	0.35	ng/L		05/13/25 19:47	05/16/25 01:33	1
Perfluoroundecanoic acid (PFUnA)	<1.6		1.6	0.18	ng/L		05/13/25 19:47	05/16/25 01:33	1
Perfluorododecanoic acid (PFDoA)	<1.6		1.6	0.44	ng/L		05/13/25 19:47	05/16/25 01:33	1
Perfluorotridecanoic acid (PFTriA)	<1.6		1.6	0.45	ng/L		05/13/25 19:47	05/16/25 01:33	1
Perfluorotetradecanoic acid (PFTeA)	<1.6		1.6	0.64	ng/L		05/13/25 19:47	05/16/25 01:33	1
Perfluorobutanesulfonic acid (PFBS)	5.1		1.6	0.22	ng/L		05/13/25 19:47	05/16/25 01:33	1
Perfluoropentanesulfonic acid (PFPeS)	5.4		1.6	0.17	ng/L		05/13/25 19:47	05/16/25 01:33	1
Perfluorohexanesulfonic acid (PFHxS)	35		1.6	0.19	ng/L		05/13/25 19:47	05/16/25 01:33	1
Perfluoroheptanesulfonic acid (PFHpS)	0.94 J		1.6	0.14	ng/L		05/13/25 19:47	05/16/25 01:33	1
Perfluorooctanesulfonic acid (PFOS)	3.0		1.6	0.22	ng/L		05/13/25 19:47	05/16/25 01:33	1
Perfluorononanesulfonic acid (PFNS)	<1.6		1.6	0.25	ng/L		05/13/25 19:47	05/16/25 01:33	1
Perfluorodecanesulfonic acid (PFDS)	<1.6		1.6	0.24	ng/L		05/13/25 19:47	05/16/25 01:33	1
Perfluorododecanesulfonic acid (PFDoS)	<1.6		1.6	0.42	ng/L		05/13/25 19:47	05/16/25 01:33	1
4:2 FTS	15		3.2	0.34	ng/L		05/13/25 19:47	05/16/25 01:33	1
6:2 FTS	980 E		3.2	0.32	ng/L		05/13/25 19:47	05/16/25 01:33	1
8:2 FTS	<3.2		3.2	0.71	ng/L		05/13/25 19:47	05/16/25 01:33	1
Perfluorooctanesulfonamide (FOSA)	<1.6		1.6	0.18	ng/L		05/13/25 19:47	05/16/25 01:33	1
NMeFOSA	<1.6		1.6	0.30	ng/L		05/13/25 19:47	05/16/25 01:33	1
NEtFOSA	<1.6		1.6	0.35	ng/L		05/13/25 19:47	05/16/25 01:33	1
NMeFOSAA	<1.6		1.6	0.28	ng/L		05/13/25 19:47	05/16/25 01:33	1
NEtFOSAA	<1.6		1.6	0.35	ng/L		05/13/25 19:47	05/16/25 01:33	1
NMeFOSE	<7.9		7.9	1.8	ng/L		05/13/25 19:47	05/16/25 01:33	1
NEtFOSE	<7.9		7.9	1.9	ng/L		05/13/25 19:47	05/16/25 01:33	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.2		1.2	0.31	ng/L		05/13/25 19:47	05/16/25 01:33	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.6		1.6	0.32	ng/L		05/13/25 19:47	05/16/25 01:33	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.6		1.6	0.15	ng/L		05/13/25 19:47	05/16/25 01:33	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.6		1.6	0.20	ng/L		05/13/25 19:47	05/16/25 01:33	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.6		1.6	0.57	ng/L		05/13/25 19:47	05/16/25 01:33	1
F-53B Major	<1.6		1.6	0.46	ng/L		05/13/25 19:47	05/16/25 01:33	1
F-53B Minor	<1.6		1.6	0.23	ng/L		05/13/25 19:47	05/16/25 01:33	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.6		1.6	0.20	ng/L		05/13/25 19:47	05/16/25 01:33	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.2		3.2	0.57	ng/L		05/13/25 19:47	05/16/25 01:33	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	1.7 J		7.9	1.4	ng/L		05/13/25 19:47	05/16/25 01:33	1

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Client Sample Results

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

Job ID: 500-268172-1

Client Sample ID: PZ-72-73 (050825)

Lab Sample ID: 500-268172-2

Date Collected: 05/08/25 15:20

Matrix: Water

Date Received: 05/10/25 09:10

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		05/13/25 19:47	05/16/25 01:33	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	103		5 - 130				05/13/25 19:47	05/16/25 01:33	1
13C5 PFPeA	108		40 - 130				05/13/25 19:47	05/16/25 01:33	1
13C5 PFHxA	99.6		40 - 130				05/13/25 19:47	05/16/25 01:33	1
13C4 PFHpA	99.4		40 - 130				05/13/25 19:47	05/16/25 01:33	1
13C8 PFOA	102		40 - 130				05/13/25 19:47	05/16/25 01:33	1
13C9 PFNA	95.8		40 - 130				05/13/25 19:47	05/16/25 01:33	1
13C6 PFDA	108		40 - 130				05/13/25 19:47	05/16/25 01:33	1
13C7 PFUnA	108		30 - 130				05/13/25 19:47	05/16/25 01:33	1
13C2 PFDoA	97.2		10 - 130				05/13/25 19:47	05/16/25 01:33	1
13C2 PFTeDA	91.0		10 - 130				05/13/25 19:47	05/16/25 01:33	1
13C3 PFBS	106		40 - 135				05/13/25 19:47	05/16/25 01:33	1
13C3 PFHxS	107		40 - 130				05/13/25 19:47	05/16/25 01:33	1
13C8 PFOS	99.0		40 - 130				05/13/25 19:47	05/16/25 01:33	1
13C8 FOSA	90.1		40 - 130				05/13/25 19:47	05/16/25 01:33	1
d3-NMeFOSAA	90.5		40 - 170				05/13/25 19:47	05/16/25 01:33	1
d5-NEtFOSAA	87.5		25 - 135				05/13/25 19:47	05/16/25 01:33	1
M2-4:2 FTS	113		40 - 200				05/13/25 19:47	05/16/25 01:33	1
M2-6:2 FTS	99.2		40 - 200				05/13/25 19:47	05/16/25 01:33	1
M2-8:2 FTS	113		40 - 300				05/13/25 19:47	05/16/25 01:33	1
13C3 HFPO-DA	92.3		40 - 130				05/13/25 19:47	05/16/25 01:33	1
d7-N-MeFOSE-M	77.1		10 - 130				05/13/25 19:47	05/16/25 01:33	1
d9-N-EtFOSE-M	66.1		10 - 130				05/13/25 19:47	05/16/25 01:33	1
d5-NEtPFOSA	75.7		10 - 130				05/13/25 19:47	05/16/25 01:33	1
d3-NMePFOSA	73.7		10 - 130				05/13/25 19:47	05/16/25 01:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	53		16	1.5	ng/L		05/13/25 19:47	05/16/25 01:49	5
Perfluoropentanoic acid (PFPeA)	150		7.9	0.91	ng/L		05/13/25 19:47	05/16/25 01:49	5
Perfluorohexanoic acid (PFHxA)	140		7.9	1.1	ng/L		05/13/25 19:47	05/16/25 01:49	5
Perfluoroheptanoic acid (PFHpA)	66		7.9	1.4	ng/L		05/13/25 19:47	05/16/25 01:49	5
Perfluorooctanoic acid (PFOA)	390		7.9	1.5	ng/L		05/13/25 19:47	05/16/25 01:49	5
Perfluorononanoic acid (PFNA)	29		7.9	1.8	ng/L		05/13/25 19:47	05/16/25 01:49	5
Perfluorodecanoic acid (PFDA)	<7.9		7.9	1.7	ng/L		05/13/25 19:47	05/16/25 01:49	5
Perfluoroundecanoic acid (PFUnA)	<7.9		7.9	0.89	ng/L		05/13/25 19:47	05/16/25 01:49	5
Perfluorododecanoic acid (PFDoA)	<7.9		7.9	2.2	ng/L		05/13/25 19:47	05/16/25 01:49	5
Perfluorotridecanoic acid (PFTriA)	<7.9		7.9	2.3	ng/L		05/13/25 19:47	05/16/25 01:49	5
Perfluorotetradecanoic acid (PFTeA)	<7.9		7.9	3.2	ng/L		05/13/25 19:47	05/16/25 01:49	5
Perfluorobutanesulfonic acid (PFBS)	6.0 J		7.9	1.1	ng/L		05/13/25 19:47	05/16/25 01:49	5
Perfluoropentanesulfonic acid (PFPeS)	6.0 J		7.9	0.84	ng/L		05/13/25 19:47	05/16/25 01:49	5
Perfluorohexanesulfonic acid (PFHxS)	37		7.9	0.97	ng/L		05/13/25 19:47	05/16/25 01:49	5
Perfluoroheptanesulfonic acid (PFHpS)	0.84 J		7.9	0.69	ng/L		05/13/25 19:47	05/16/25 01:49	5
Perfluorooctanesulfonic acid (PFOS)	3.5 J		7.9	1.1	ng/L		05/13/25 19:47	05/16/25 01:49	5

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Client Sample Results

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

Job ID: 500-268172-1

Client Sample ID: PZ-72-73 (050825)

Lab Sample ID: 500-268172-2

Date Collected: 05/08/25 15:20

Matrix: Water

Date Received: 05/10/25 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanesulfonic acid (PFNS)	<7.9		7.9	1.2	ng/L		05/13/25 19:47	05/16/25 01:49	5
Perfluorodecanesulfonic acid (PFDS)	<7.9		7.9	1.2	ng/L		05/13/25 19:47	05/16/25 01:49	5
Perfluorododecanesulfonic acid (PFDoS)	<7.9		7.9	2.1	ng/L		05/13/25 19:47	05/16/25 01:49	5
4:2 FTS	13	J	16	1.7	ng/L		05/13/25 19:47	05/16/25 01:49	5
6:2 FTS	970		16	1.6	ng/L		05/13/25 19:47	05/16/25 01:49	5
8:2 FTS	<16		16	3.5	ng/L		05/13/25 19:47	05/16/25 01:49	5
Perfluorooctanesulfonamide (FOSA)	<7.9		7.9	0.89	ng/L		05/13/25 19:47	05/16/25 01:49	5
NMeFOSA	<7.9		7.9	1.5	ng/L		05/13/25 19:47	05/16/25 01:49	5
NEtFOSA	<7.9		7.9	1.8	ng/L		05/13/25 19:47	05/16/25 01:49	5
NMeFOSAA	<7.9		7.9	1.4	ng/L		05/13/25 19:47	05/16/25 01:49	5
NEtFOSAA	<7.9		7.9	1.7	ng/L		05/13/25 19:47	05/16/25 01:49	5
NMeFOSE	<39		39	9.0	ng/L		05/13/25 19:47	05/16/25 01:49	5
NEtFOSE	<39		39	9.6	ng/L		05/13/25 19:47	05/16/25 01:49	5
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<5.9		5.9	1.5	ng/L		05/13/25 19:47	05/16/25 01:49	5
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<7.9		7.9	1.6	ng/L		05/13/25 19:47	05/16/25 01:49	5
Perfluoro-3-methoxypropanoic acid (PFMPA)	<7.9		7.9	0.75	ng/L		05/13/25 19:47	05/16/25 01:49	5
Perfluoro-4-methoxybutanoic acid (PFMBA)	<7.9		7.9	1.0	ng/L		05/13/25 19:47	05/16/25 01:49	5
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<7.9		7.9	2.8	ng/L		05/13/25 19:47	05/16/25 01:49	5
F-53B Major	<7.9		7.9	2.3	ng/L		05/13/25 19:47	05/16/25 01:49	5
F-53B Minor	<7.9		7.9	1.2	ng/L		05/13/25 19:47	05/16/25 01:49	5
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<7.9		7.9	0.98	ng/L		05/13/25 19:47	05/16/25 01:49	5
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<16		16	2.8	ng/L		05/13/25 19:47	05/16/25 01:49	5
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<39		39	6.8	ng/L		05/13/25 19:47	05/16/25 01:49	5
3-Perfluoroheptylpropanoic acid (7:3 FTCA)	<39		39	4.9	ng/L		05/13/25 19:47	05/16/25 01:49	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	103	*3	5 - 130	05/13/25 19:47	05/16/25 01:49	5
13C5 PFPeA	108	*3	40 - 130	05/13/25 19:47	05/16/25 01:49	5
13C5 PFHxA	104	*3	40 - 130	05/13/25 19:47	05/16/25 01:49	5
13C4 PFHpA	97.0	*3	40 - 130	05/13/25 19:47	05/16/25 01:49	5
13C8 PFOA	107	*3	40 - 130	05/13/25 19:47	05/16/25 01:49	5
13C9 PFNA	97.4	*3	40 - 130	05/13/25 19:47	05/16/25 01:49	5
13C6 PFDA	101	*3	40 - 130	05/13/25 19:47	05/16/25 01:49	5
13C7 PFUnA	103	*3	30 - 130	05/13/25 19:47	05/16/25 01:49	5
13C2 PFDoA	86.8	*3	10 - 130	05/13/25 19:47	05/16/25 01:49	5
13C2 PFTeDA	80.4	*3	10 - 130	05/13/25 19:47	05/16/25 01:49	5
13C3 PFBS	96.1	*3	40 - 135	05/13/25 19:47	05/16/25 01:49	5
13C3 PFHxS	95.8	*3	40 - 130	05/13/25 19:47	05/16/25 01:49	5
13C8 PFOS	98.9	*3	40 - 130	05/13/25 19:47	05/16/25 01:49	5
13C8 FOSA	89.0	*3	40 - 130	05/13/25 19:47	05/16/25 01:49	5
d3-NMeFOSAA	95.8	*3	40 - 170	05/13/25 19:47	05/16/25 01:49	5
d5-NEtFOSAA	88.7	*3	25 - 135	05/13/25 19:47	05/16/25 01:49	5
M2-4:2 FTS	105	*3	40 - 200	05/13/25 19:47	05/16/25 01:49	5

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Client Sample Results

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

Job ID: 500-268172-1

Client Sample ID: PZ-72-73 (050825)

Lab Sample ID: 500-268172-2

Date Collected: 05/08/25 15:20

Matrix: Water

Date Received: 05/10/25 09:10

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	95.5	*3	40 - 200	05/13/25 19:47	05/16/25 01:49	5
M2-8:2 FTS	112	*3	40 - 300	05/13/25 19:47	05/16/25 01:49	5
13C3 HFPO-DA	92.0	*3	40 - 130	05/13/25 19:47	05/16/25 01:49	5
d7-N-MeFOSE-M	71.5	*3	10 - 130	05/13/25 19:47	05/16/25 01:49	5
d9-N-EtFOSE-M	66.8	*3	10 - 130	05/13/25 19:47	05/16/25 01:49	5
d5-NEtPFOSA	74.6	*3	10 - 130	05/13/25 19:47	05/16/25 01:49	5
d3-NMePFOSA	75.2	*3	10 - 130	05/13/25 19:47	05/16/25 01:49	5

Client Sample Results

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

Job ID: 500-268172-1

Client Sample ID: PZ-73-32 (050825)

Lab Sample ID: 500-268172-4

Date Collected: 05/08/25 16:35

Matrix: Water

Date Received: 05/10/25 09:10

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)	13		3.2	0.30	ng/L		05/13/25 19:47	05/16/25 02:22	1
Perfluoropentanoic acid (PFPeA)	4.9		1.6	0.19	ng/L		05/13/25 19:47	05/16/25 02:22	1
Perfluorohexanoic acid (PFHxA)	4.2		1.6	0.21	ng/L		05/13/25 19:47	05/16/25 02:22	1
Perfluoroheptanoic acid (PFHpA)	2.2		1.6	0.28	ng/L		05/13/25 19:47	05/16/25 02:22	1
Perfluorooctanoic acid (PFOA)	3.4		1.6	0.31	ng/L		05/13/25 19:47	05/16/25 02:22	1
Perfluorononanoic acid (PFNA)	1.3 J		1.6	0.36	ng/L		05/13/25 19:47	05/16/25 02:22	1
Perfluorodecanoic acid (PFDA)	<1.6		1.6	0.35	ng/L		05/13/25 19:47	05/16/25 02:22	1
Perfluoroundecanoic acid (PFUnA)	<1.6		1.6	0.18	ng/L		05/13/25 19:47	05/16/25 02:22	1
Perfluorododecanoic acid (PFDoA)	<1.6		1.6	0.44	ng/L		05/13/25 19:47	05/16/25 02:22	1
Perfluorotridecanoic acid (PFTriA)	<1.6		1.6	0.46	ng/L		05/13/25 19:47	05/16/25 02:22	1
Perfluorotetradecanoic acid (PFTeA)	<1.6		1.6	0.65	ng/L		05/13/25 19:47	05/16/25 02:22	1
Perfluorobutanesulfonic acid (PFBS)	0.71 J		1.6	0.22	ng/L		05/13/25 19:47	05/16/25 02:22	1
Perfluoropentanesulfonic acid (PFPeS)	<1.6		1.6	0.17	ng/L		05/13/25 19:47	05/16/25 02:22	1
Perfluorohexanesulfonic acid (PFHxS)	0.53 J		1.6	0.20	ng/L		05/13/25 19:47	05/16/25 02:22	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.6		1.6	0.14	ng/L		05/13/25 19:47	05/16/25 02:22	1
Perfluorooctanesulfonic acid (PFOS)	1.6		1.6	0.22	ng/L		05/13/25 19:47	05/16/25 02:22	1
Perfluorononanesulfonic acid (PFNS)	<1.6		1.6	0.25	ng/L		05/13/25 19:47	05/16/25 02:22	1
Perfluorodecanesulfonic acid (PFDS)	<1.6		1.6	0.25	ng/L		05/13/25 19:47	05/16/25 02:22	1
Perfluorododecanesulfonic acid (PFDoS)	<1.6		1.6	0.42	ng/L		05/13/25 19:47	05/16/25 02:22	1
4:2 FTS	<3.2		3.2	0.35	ng/L		05/13/25 19:47	05/16/25 02:22	1
6:2 FTS	0.37 J		3.2	0.32	ng/L		05/13/25 19:47	05/16/25 02:22	1
8:2 FTS	<3.2		3.2	0.72	ng/L		05/13/25 19:47	05/16/25 02:22	1
Perfluorooctanesulfonamide (FOSA)	<1.6		1.6	0.18	ng/L		05/13/25 19:47	05/16/25 02:22	1
NMeFOSA	<1.6		1.6	0.31	ng/L		05/13/25 19:47	05/16/25 02:22	1
NEtFOSA	<1.6		1.6	0.36	ng/L		05/13/25 19:47	05/16/25 02:22	1
NMeFOSAA	<1.6		1.6	0.28	ng/L		05/13/25 19:47	05/16/25 02:22	1
NEtFOSAA	<1.6		1.6	0.35	ng/L		05/13/25 19:47	05/16/25 02:22	1
NMeFOSE	<8.0		8.0	1.8	ng/L		05/13/25 19:47	05/16/25 02:22	1
NEtFOSE	<8.0		8.0	1.9	ng/L		05/13/25 19:47	05/16/25 02:22	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.2		1.2	0.31	ng/L		05/13/25 19:47	05/16/25 02:22	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.6		1.6	0.32	ng/L		05/13/25 19:47	05/16/25 02:22	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.6		1.6	0.15	ng/L		05/13/25 19:47	05/16/25 02:22	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.6		1.6	0.21	ng/L		05/13/25 19:47	05/16/25 02:22	1
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.6		1.6	0.57	ng/L		05/13/25 19:47	05/16/25 02:22	1
F-53B Major	<1.6		1.6	0.46	ng/L		05/13/25 19:47	05/16/25 02:22	1
F-53B Minor	<1.6		1.6	0.24	ng/L		05/13/25 19:47	05/16/25 02:22	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.6		1.6	0.20	ng/L		05/13/25 19:47	05/16/25 02:22	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.2		3.2	0.57	ng/L		05/13/25 19:47	05/16/25 02:22	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<8.0		8.0	1.4	ng/L		05/13/25 19:47	05/16/25 02:22	1

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Client Sample Results

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

Job ID: 500-268172-1

Client Sample ID: PZ-73-32 (050825)

Lab Sample ID: 500-268172-4

Date Collected: 05/08/25 16:35

Matrix: Water

Date Received: 05/10/25 09:10

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)	<8.0		8.0	0.99	ng/L		05/13/25 19:47	05/16/25 02:22	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	98.6		5 - 130				05/13/25 19:47	05/16/25 02:22	1
13C5 PFPeA	99.0		40 - 130				05/13/25 19:47	05/16/25 02:22	1
13C5 PFHxA	94.0		40 - 130				05/13/25 19:47	05/16/25 02:22	1
13C4 PFHpA	88.4		40 - 130				05/13/25 19:47	05/16/25 02:22	1
13C8 PFOA	106		40 - 130				05/13/25 19:47	05/16/25 02:22	1
13C9 PFNA	100		40 - 130				05/13/25 19:47	05/16/25 02:22	1
13C6 PFDA	104		40 - 130				05/13/25 19:47	05/16/25 02:22	1
13C7 PFUnA	97.3		30 - 130				05/13/25 19:47	05/16/25 02:22	1
13C2 PFDoA	88.0		10 - 130				05/13/25 19:47	05/16/25 02:22	1
13C2 PFTeDA	76.7		10 - 130				05/13/25 19:47	05/16/25 02:22	1
13C3 PFBS	109		40 - 135				05/13/25 19:47	05/16/25 02:22	1
13C3 PFHxS	109		40 - 130				05/13/25 19:47	05/16/25 02:22	1
13C8 PFOS	97.3		40 - 130				05/13/25 19:47	05/16/25 02:22	1
13C8 FOSA	88.5		40 - 130				05/13/25 19:47	05/16/25 02:22	1
d3-NMeFOSAA	84.8		40 - 170				05/13/25 19:47	05/16/25 02:22	1
d5-NEtFOSAA	81.3		25 - 135				05/13/25 19:47	05/16/25 02:22	1
M2-4:2 FTS	124		40 - 200				05/13/25 19:47	05/16/25 02:22	1
M2-6:2 FTS	108		40 - 200				05/13/25 19:47	05/16/25 02:22	1
M2-8:2 FTS	107		40 - 300				05/13/25 19:47	05/16/25 02:22	1
13C3 HFPO-DA	93.7		40 - 130				05/13/25 19:47	05/16/25 02:22	1
d7-N-MeFOSE-M	71.3		10 - 130				05/13/25 19:47	05/16/25 02:22	1
d9-N-EtFOSE-M	64.1		10 - 130				05/13/25 19:47	05/16/25 02:22	1
d5-NEtPFOSA	75.8		10 - 130				05/13/25 19:47	05/16/25 02:22	1
d3-NMePFOSA	70.2		10 - 130				05/13/25 19:47	05/16/25 02:22	1

Client Sample Results

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

Job ID: 500-268172-1

Client Sample ID: MW-100-32 (050925)

Lab Sample ID: 500-268172-10

Date Collected: 05/09/25 09:55

Matrix: Water

Date Received: 05/10/25 09:10

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)	3.8		3.2	0.30	ng/L		05/13/25 19:47	05/16/25 05:07	1
Perfluoropentanoic acid (PFPeA)	<1.6		1.6	0.18	ng/L		05/13/25 19:47	05/16/25 05:07	1
Perfluorohexanoic acid (PFHxA)	1.3	J	1.6	0.21	ng/L		05/13/25 19:47	05/16/25 05:07	1
Perfluoroheptanoic acid (PFHpA)	0.65	J	1.6	0.27	ng/L		05/13/25 19:47	05/16/25 05:07	1
Perfluorooctanoic acid (PFOA)	2.1		1.6	0.31	ng/L		05/13/25 19:47	05/16/25 05:07	1
Perfluorononanoic acid (PFNA)	<1.6		1.6	0.36	ng/L		05/13/25 19:47	05/16/25 05:07	1
Perfluorodecanoic acid (PFDA)	<1.6		1.6	0.35	ng/L		05/13/25 19:47	05/16/25 05:07	1
Perfluoroundecanoic acid (PFUnA)	<1.6		1.6	0.18	ng/L		05/13/25 19:47	05/16/25 05:07	1
Perfluorododecanoic acid (PFDoA)	<1.6		1.6	0.44	ng/L		05/13/25 19:47	05/16/25 05:07	1
Perfluorotridecanoic acid (PFTriA)	<1.6		1.6	0.46	ng/L		05/13/25 19:47	05/16/25 05:07	1
Perfluorotetradecanoic acid (PFTeA)	<1.6		1.6	0.64	ng/L		05/13/25 19:47	05/16/25 05:07	1
Perfluorobutanesulfonic acid (PFBS)	<1.6		1.6	0.22	ng/L		05/13/25 19:47	05/16/25 05:07	1
Perfluoropentanesulfonic acid (PFPeS)	<1.6		1.6	0.17	ng/L		05/13/25 19:47	05/16/25 05:07	1
Perfluorohexanesulfonic acid (PFHxS)	0.37	J	1.6	0.19	ng/L		05/13/25 19:47	05/16/25 05:07	1
Perfluoroheptanesulfonic acid (PFHpS)	<1.6		1.6	0.14	ng/L		05/13/25 19:47	05/16/25 05:07	1
Perfluorooctanesulfonic acid (PFOS)	0.60	J	1.6	0.22	ng/L		05/13/25 19:47	05/16/25 05:07	1
Perfluorononanesulfonic acid (PFNS)	<1.6		1.6	0.25	ng/L		05/13/25 19:47	05/16/25 05:07	1
Perfluorodecanesulfonic acid (PFDS)	<1.6		1.6	0.25	ng/L		05/13/25 19:47	05/16/25 05:07	1
Perfluorododecanesulfonic acid (PFDoS)	<1.6		1.6	0.42	ng/L		05/13/25 19:47	05/16/25 05:07	1
4:2 FTS	<3.2		3.2	0.35	ng/L		05/13/25 19:47	05/16/25 05:07	1
6:2 FTS	<3.2		3.2	0.32	ng/L		05/13/25 19:47	05/16/25 05:07	1
8:2 FTS	<3.2		3.2	0.71	ng/L		05/13/25 19:47	05/16/25 05:07	1
Perfluorooctanesulfonamide (FOSA)	<1.6		1.6	0.18	ng/L		05/13/25 19:47	05/16/25 05:07	1
NMeFOSA	<1.6		1.6	0.31	ng/L		05/13/25 19:47	05/16/25 05:07	1
NEtFOSA	<1.6		1.6	0.35	ng/L		05/13/25 19:47	05/16/25 05:07	1
NMeFOSAA	<1.6		1.6	0.28	ng/L		05/13/25 19:47	05/16/25 05:07	1
NEtFOSAA	<1.6		1.6	0.35	ng/L		05/13/25 19:47	05/16/25 05:07	1
NMeFOSE	<7.9		7.9	1.8	ng/L		05/13/25 19:47	05/16/25 05:07	1
NEtFOSE	<7.9		7.9	1.9	ng/L		05/13/25 19:47	05/16/25 05:07	1
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<1.2		1.2	0.31	ng/L		05/13/25 19:47	05/16/25 05:07	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.6		1.6	0.32	ng/L		05/13/25 19:47	05/16/25 05:07	1
Perfluoro-3-methoxypropanoic acid (PFMPA)	<1.6		1.6	0.15	ng/L		05/13/25 19:47	05/16/25 05:07	1
Perfluoro-4-methoxybutanoic acid (PFMBA)	<1.6		1.6	0.20	ng/L		05/13/25 19:47	05/16/25 05:07	1
Nonfluoro-3,6-dioxaheptanoic acid (NFDHA)	<1.6		1.6	0.57	ng/L		05/13/25 19:47	05/16/25 05:07	1
F-53B Major	<1.6		1.6	0.46	ng/L		05/13/25 19:47	05/16/25 05:07	1
F-53B Minor	<1.6		1.6	0.24	ng/L		05/13/25 19:47	05/16/25 05:07	1
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<1.6		1.6	0.20	ng/L		05/13/25 19:47	05/16/25 05:07	1
3-Perfluoropropylpropanoic acid (3:3 FTCA)	<3.2		3.2	0.57	ng/L		05/13/25 19:47	05/16/25 05:07	1
3-Perfluoropentylpropanoic acid (5:3 FTCA)	<7.9		7.9	1.4	ng/L		05/13/25 19:47	05/16/25 05:07	1

Eurofins Chicago

Client Sample Results

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

Job ID: 500-268172-1

Client Sample ID: MW-100-32 (050925)

Lab Sample ID: 500-268172-10

Date Collected: 05/09/25 09:55

Matrix: Water

Date Received: 05/10/25 09:10

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		05/13/25 19:47	05/16/25 05:07	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	101		5 - 130				05/13/25 19:47	05/16/25 05:07	1
13C5 PFPeA	97.1		40 - 130				05/13/25 19:47	05/16/25 05:07	1
13C5 PFHxA	90.3		40 - 130				05/13/25 19:47	05/16/25 05:07	1
13C4 PFHpA	87.4		40 - 130				05/13/25 19:47	05/16/25 05:07	1
13C8 PFOA	104		40 - 130				05/13/25 19:47	05/16/25 05:07	1
13C9 PFNA	96.2		40 - 130				05/13/25 19:47	05/16/25 05:07	1
13C6 PFDA	113		40 - 130				05/13/25 19:47	05/16/25 05:07	1
13C7 PFUnA	109		30 - 130				05/13/25 19:47	05/16/25 05:07	1
13C2 PFDoA	91.1		10 - 130				05/13/25 19:47	05/16/25 05:07	1
13C2 PFTeDA	81.6		10 - 130				05/13/25 19:47	05/16/25 05:07	1
13C3 PFBS	106		40 - 135				05/13/25 19:47	05/16/25 05:07	1
13C3 PFHxS	107		40 - 130				05/13/25 19:47	05/16/25 05:07	1
13C8 PFOS	92.0		40 - 130				05/13/25 19:47	05/16/25 05:07	1
13C8 FOSA	84.1		40 - 130				05/13/25 19:47	05/16/25 05:07	1
d3-NMeFOSAA	83.2		40 - 170				05/13/25 19:47	05/16/25 05:07	1
d5-NEtFOSAA	75.7		25 - 135				05/13/25 19:47	05/16/25 05:07	1
M2-4:2 FTS	110		40 - 200				05/13/25 19:47	05/16/25 05:07	1
M2-6:2 FTS	102		40 - 200				05/13/25 19:47	05/16/25 05:07	1
M2-8:2 FTS	111		40 - 300				05/13/25 19:47	05/16/25 05:07	1
13C3 HFPO-DA	92.2		40 - 130				05/13/25 19:47	05/16/25 05:07	1
d7-N-MeFOSE-M	72.8		10 - 130				05/13/25 19:47	05/16/25 05:07	1
d9-N-EtFOSE-M	63.5		10 - 130				05/13/25 19:47	05/16/25 05:07	1
d5-NEtPFOSA	71.7		10 - 130				05/13/25 19:47	05/16/25 05:07	1
d3-NMePFOSA	67.9		10 - 130				05/13/25 19:47	05/16/25 05:07	1