

Eurofins Derry
Laboratory Report

Merrimack Village District
Jill Lavoie
2 Greens Pond Road
Merrimack, NH 03054

Job ID: 291-9174-1
Date Received: 7/23/2026 2:32 PM
Sample Collected In: New Hampshire
Job Desc: Merrimack Village - PFAs
Non-Compliance

The analytical test results presented in this report meet all requirements of the associated regulatory program listed in the Certification Summary section, unless otherwise noted. This certificate shall not be reproduced, except in full, without the written approval of the analyzing laboratory. The results presented in this report relate to the samples listed on the following pages in the condition in which they were received. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

Receipt

The samples were received on 7/23/2026 2:32 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 16.9°C.

Certification Summary

Certifications for this job are presented below. Note that not all certifications may be applicable to your report and certifications for subcontracted laboratories are available upon request. Analytes not considered to be certified under the certifications associated with this report will have an asterisk next to their names. Evidence of certification for laboratories within Eurofins Environmental Testing can be found on the following website: <https://www.eurofinsus.com/environment-testing/resources/certifications/>

Eurofins Derry (DER), 22 Manchester Road, Unit 2, Derry, NH 03038
New Hampshire, Lab ID: 1015

Action Limit Summary

Sample results for 291-9174-1, 291-9174-2, 291-9174-3, 291-9174-4, 291-9174-5, 291-9174-6, 291-9174-7, 291-9174-8, and 291-9174-9 have been evaluated against the following action limits and/or Maximum Contaminant Levels:

- EPA Primary Limits: EPA DW Primary MCLs
- EPA Secondary Limits: EPA Secondary DW MCL
- State Limits: NH State DW MCLs

Definitions regarding the evaluations presented within this report are presented below:

- EPA Primary Limits: Legally enforceable standards known to affect human health.
- EPA Secondary Limits: Non-enforceable standards that may cause cosmetic or aesthetic effects.
- Pass: Result is below the action limit and/or MCL.
- Fail: Result is above the action limit and/or MCL.
- Attention: Result indicates a potential pathway for contaminants to enter the system that warrants investigation.
- No Limit: No action limit or MCL is available.

Analysis Related Notes

DF: "Dilution factor" means the ratio of the volume of the final (dilution) solution to the volume of sample.

MDL: "Minimum Detection Limit" means the minimum result which can be reliably distinguished from a blank with predetermined confidence level.

ND: Non-detected at the reporting limit (or MDL or EDL if shown).

RL: "Reporting limit" means the lowest level of an analyte that can be accurately recovered from the matrix of interest.

Data qualifier flags provide additional information in regards to the receipt, analysis or quality control of a sample. If any such flags are associated with the results of this report, they will be listed below along with their definitions.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010-008 (MVD-2 raw)
SAMPLE ID #: 291-9174-1
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 12:32

Test Description (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.344	ng/L			0.344	1.95	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:06
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.352	ng/L			0.352	1.95	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:06
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	<0.402	ng/L			0.402	1.95	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:06
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.380	ng/L			0.380	1.95	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:06
4,8-Dioxa-3H-perfluorononan oic acid (ADONA)	<0.326	ng/L			0.326	1.95	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:06
9-Chlorohexadecafluoro-3-ox anonane-1-sulfonic acid (9Cl-PF3ONS)	<0.335	ng/L			0.335	1.95	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:06
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.412	ng/L			0.412	1.95	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:06
Nonafluoro-3,6-dioxaheptanoi c acid (NFDHA)	<0.644	ng/L			0.644	1.95	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.260	ng/L			0.260	1.95	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluoro-3-methoxypropanoi c acid (PFMPA)	<0.420	ng/L			0.420	1.95	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.354	ng/L			0.354	1.95	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluorobutanesulfonic acid (PFBS)	3.09	ng/L			0.334	1.95	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluorobutanoic acid (PFBA)	1.86	ng/L		J	0.484	1.95	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluorodecanoic acid (PFDA)	<0.362	ng/L			0.362	1.95	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluorododecanoic acid (PFDoA)	<0.333	ng/L			0.333	1.95	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluoroheptanesulfonic acid (PFHpS)	<0.350	ng/L			0.350	1.95	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluoroheptanoic acid (PFHpA)	2.35	ng/L			0.362	1.95	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluorohexanesulfonic acid (PFHxS)	<0.424	ng/L	✓		0.424	1.95	1	18	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluorohexanoic acid (PFHxA)	3.17	ng/L			0.321	1.95	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluorononanoic acid (PFNA)	<0.342	ng/L	✓		0.342	1.95	1	11	TF - DER	07/28/26 08:44	08/07/26 05:06



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010-008 (MVD-2 raw)
SAMPLE ID #: 291-9174-1
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 12:32

Test Description (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluorooctanesulfonic acid (PFOS)	1.20	ng/L	✓	J	0.345	1.95	1	15	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluorooctanoic acid (PFOA)	11.0	ng/L	✓		0.525	1.95	1	12	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluoropentanesulfonic acid (PFPeS)	<0.347	ng/L			0.347	1.95	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluoropentanoic acid (PFPeA)	3.14	ng/L			0.437	1.95	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluoroundecanoic acid (PFUnA)	<0.354	ng/L			0.354	1.95	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:06

Isotope Dilution (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
13C3-HFPO-DA	95	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:06
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] decanesulfonic acid	103	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:06
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] hexanesulfonic acid	122	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:06
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] octanesulfonic acid	109	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluoro-1-[1,2,3-13C3] hexanesulfonic acid	111	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluoro-1-[13C8] octanesulfonic acid	107	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluoro-1-[2,3,4-13C3] butanesulfonic acid	107	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluoro-n- [1,2,3,4,5,6,7-13C7]undecano ic acid	95	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluoro-n- [1,2,3,4,5,6-13C6]decanoic acid	97	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluoro-n- [1,2,3,4,6-13C5]hexanoic acid	97	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluoro-n- [1,2,3,4-13C4]heptanoic acid	102	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluoro-n- [1,2-13C2]dodecanoic acid	98	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluoro-n-[13C4]butanoic acid	107	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:06



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010-008 (MVD-2 raw)
SAMPLE ID #: 291-9174-1
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 12:32

Isotope Dilution (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluoro-n-[13C5]pentanoic acid	97	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluoro-n-[13C8]octanoic acid	103	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:06
Perfluoro-n-[13C9]nonanoic acid	97	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:06

CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010-012 (MVD 9 raw)
SAMPLE ID #: 291-9174-2
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 12:33

Test Description (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.338	ng/L			0.338	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:20
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.346	ng/L			0.346	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:20
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	<0.395	ng/L			0.395	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:20
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.373	ng/L			0.373	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:20
4,8-Dioxa-3H-perfluorononan oic acid (ADONA)	<0.321	ng/L			0.321	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:20
9-Chlorohexadecafluoro-3-ox anonane-1-sulfonic acid (9Cl-PF3ONS)	<0.329	ng/L			0.329	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:20
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.405	ng/L			0.405	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:20
Nonfluoro-3,6-dioxaheptanoi c acid (NFDHA)	<0.633	ng/L			0.633	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<0.255	ng/L			0.255	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluoro-3-methoxypropanoi c acid (PFMPA)	<0.413	ng/L			0.413	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.348	ng/L			0.348	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluorobutanesulfonic acid (PFBS)	1.03	ng/L		J	0.328	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluorobutanoic acid (PFBA)	<0.475	ng/L			0.475	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluorodecanoic acid (PFDA)	<0.355	ng/L			0.355	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluorododecanoic acid (PFDoA)	<0.327	ng/L			0.327	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluoroheptanesulfonic acid (PFHpS)	<0.344	ng/L			0.344	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluoroheptanoic acid (PFHpA)	0.724	ng/L		J	0.355	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluorohexanesulfonic acid (PFHxS)	<0.417	ng/L	✓		0.417	1.92	1	18	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluorohexanoic acid (PFHxA)	0.897	ng/L		J	0.315	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluorononanoic acid (PFNA)	<0.336	ng/L	✓		0.336	1.92	1	11	TF - DER	07/28/26 08:44	08/07/26 05:20



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010-012 (MVD 9 raw)
SAMPLE ID #: 291-9174-2
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 12:33

Test Description (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluorooctanesulfonic acid (PFOS)	0.945	ng/L	✓	J	0.339	1.92	1	15	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluorooctanoic acid (PFOA)	4.73	ng/L	✓		0.516	1.92	1	12	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluoropentanesulfonic acid (PFPeS)	<0.341	ng/L			0.341	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluoropentanoic acid (PFPeA)	<0.429	ng/L			0.429	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluoroundecanoic acid (PFUnA)	<0.348	ng/L			0.348	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 05:20

Isotope Dilution (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
13C3-HFPO-DA	102	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:20
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] decanesulfonic acid	107	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:20
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] hexanesulfonic acid	138	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:20
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] octanesulfonic acid	120	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluoro-1-[1,2,3-13C3] hexanesulfonic acid	117	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluoro-1-[13C8] octanesulfonic acid	116	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluoro-1-[2,3,4-13C3] butanesulfonic acid	109	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluoro-n- [1,2,3,4,5,6,7-13C7]undecano ic acid	100	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluoro-n- [1,2,3,4,5,6-13C6]decanoic acid	95	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluoro-n- [1,2,3,4,6-13C5]hexanoic acid	107	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluoro-n- [1,2,3,4-13C4]heptanoic acid	107	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluoro-n- [1,2-13C2]dodecanoic acid	101	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluoro-n-[13C4]butanoic acid	115	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:20



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010-012 (MVD 9 raw)
SAMPLE ID #: 291-9174-2
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 12:33

Isotope Dilution (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluoro-n-[13C5]pentanoic acid	102	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluoro-n-[13C8]octanoic acid	106	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:20
Perfluoro-n-[13C9]nonanoic acid	95	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 05:20



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010-512 (TP - 2/9 treated)
SAMPLE ID #: 291-9174-3
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 12:45

Test Description (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.342	ng/L			0.342	1.94	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:19
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.350	ng/L			0.350	1.94	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:19
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	<0.399	ng/L			0.399	1.94	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:19
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.378	ng/L			0.378	1.94	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:19
4,8-Dioxa-3H-perfluorononan oic acid (ADONA)	<0.325	ng/L			0.325	1.94	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:19
9-Chlorohexadecafluoro-3-ox anonane-1-sulfonic acid (9Cl-PF3ONS)	<0.333	ng/L			0.333	1.94	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:19
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.410	ng/L			0.410	1.94	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:19
Nonafluoro-3,6-dioxaheptanoi c acid (NFDHA)	<0.640	ng/L			0.640	1.94	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.258	ng/L			0.258	1.94	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluoro-3-methoxypropanoi c acid (PFMPA)	<0.418	ng/L			0.418	1.94	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.352	ng/L			0.352	1.94	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluorobutanesulfonic acid (PFBS)	0.682	ng/L		J	0.332	1.94	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluorobutanoic acid (PFBA)	1.92	ng/L		J	0.481	1.94	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluorodecanoic acid (PFDA)	<0.360	ng/L			0.360	1.94	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluorododecanoic acid (PFDoA)	<0.331	ng/L			0.331	1.94	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluoroheptanesulfonic acid (PFHpS)	<0.348	ng/L			0.348	1.94	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluoroheptanoic acid (PFHpA)	<0.360	ng/L			0.360	1.94	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluorohexanesulfonic acid (PFHxS)	<0.422	ng/L	✓		0.422	1.94	1	18	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluorohexanoic acid (PFHxA)	1.34	ng/L		J	0.319	1.94	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluorononanoic acid (PFNA)	<0.340	ng/L	✓		0.340	1.94	1	11	TF - DER	08/07/26 10:13	08/09/26 00:19



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010-512 (TP - 2/9 treated)
SAMPLE ID #: 291-9174-3
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 12:45

Test Description (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluorooctanesulfonic acid (PFOS)	<0.343	ng/L	✓		0.343	1.94	1	15	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluorooctanoic acid (PFOA)	<0.522	ng/L	✓		0.522	1.94	1	12	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluoropentanesulfonic acid (PFPeS)	<0.345	ng/L			0.345	1.94	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluoropentanoic acid (PFPeA)	1.50	ng/L		J	0.434	1.94	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluoroundecanoic acid (PFUnA)	<0.352	ng/L			0.352	1.94	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:19

Isotope Dilution (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
13C3-HFPO-DA	100	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:19
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] decanesulfonic acid	105	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:19
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] hexanesulfonic acid	102	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:19
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] octanesulfonic acid	108	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluoro-1-[1,2,3-13C3] hexanesulfonic acid	103	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluoro-1-[13C8] octanesulfonic acid	106	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluoro-1-[2,3,4-13C3] butanesulfonic acid	105	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluoro-n- [1,2,3,4,5,6,7-13C7]undecano ic acid	87	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluoro-n- [1,2,3,4,5,6-13C6]decanoic acid	84	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluoro-n- [1,2,3,4,6-13C5]hexanoic acid	99	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluoro-n- [1,2,3,4-13C4]heptanoic acid	97	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluoro-n- [1,2-13C2]dodecanoic acid	91	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluoro-n-[13C4]butanoic acid	101	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:19



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010-512 (TP - 2/9 treated)
SAMPLE ID #: 291-9174-3
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 12:45

Isotope Dilution (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluoro-n-[13C5]pentanoic acid	101	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluoro-n-[13C8]octanoic acid	94	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:19
Perfluoro-n-[13C9]nonanoic acid	88	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:19



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010-011 (MVD-4R raw)
SAMPLE ID #: 291-9174-4
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 12:08

Test Description (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.346	ng/L			0.346	1.97	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:01
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.354	ng/L			0.354	1.97	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:01
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	<0.404	ng/L			0.404	1.97	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:01
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.382	ng/L			0.382	1.97	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:01
4,8-Dioxa-3H-perfluorononan oic acid (ADONA)	<0.328	ng/L			0.328	1.97	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:01
9-Chlorohexadecafluoro-3-ox anonane-1-sulfonic acid (9Cl-PF3ONS)	<0.337	ng/L			0.337	1.97	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:01
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.415	ng/L			0.415	1.97	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:01
Nonafluoro-3,6-dioxaheptanoi c acid (NFDHA)	<0.648	ng/L			0.648	1.97	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.261	ng/L			0.261	1.97	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluoro-3-methoxypropanoi c acid (PFMPA)	<0.423	ng/L			0.423	1.97	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.356	ng/L			0.356	1.97	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluorobutanesulfonic acid (PFBS)	5.42	ng/L			0.336	1.97	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluorobutanoic acid (PFBA)	4.92	ng/L			0.486	1.97	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluorodecanoic acid (PFDA)	<0.364	ng/L			0.364	1.97	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluorododecanoic acid (PFDoA)	<0.335	ng/L			0.335	1.97	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluoroheptanesulfonic acid (PFHpS)	<0.352	ng/L			0.352	1.97	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluoroheptanoic acid (PFHpA)	10.6	ng/L			0.364	1.97	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluorohexanesulfonic acid (PFHxS)	2.61	ng/L	✓		0.426	1.97	1	18	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluorohexanoic acid (PFHxA)	13.8	ng/L			0.322	1.97	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluorononanoic acid (PFNA)	<0.344	ng/L	✓		0.344	1.97	1	11	TF - DER	07/28/26 08:44	08/07/26 06:01



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010-011 (MVD-4R raw)
SAMPLE ID #: 291-9174-4
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 12:08

Test Description (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluorooctanesulfonic acid (PFOS)	3.31	ng/L	✓		0.347	1.97	1	15	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluorooctanoic acid (PFOA)	61.8	ng/L	✗		0.528	1.97	1	12	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluoropentanesulfonic acid (PFPeS)	<0.349	ng/L			0.349	1.97	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluoropentanoic acid (PFPeA)	8.95	ng/L			0.439	1.97	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluoroundecanoic acid (PFUnA)	<0.356	ng/L			0.356	1.97	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:01

Isotope Dilution (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
13C3-HFPO-DA	81	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:01
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] decanesulfonic acid	95	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:01
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] hexanesulfonic acid	112	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:01
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] octanesulfonic acid	102	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluoro-1-[1,2,3-13C3] hexanesulfonic acid	105	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluoro-1-[13C8] octanesulfonic acid	106	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluoro-1-[2,3,4-13C3] butanesulfonic acid	102	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluoro-n- [1,2,3,4,5,6,7-13C7]undecano ic acid	82	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluoro-n- [1,2,3,4,5,6-13C6]decanoic acid	82	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluoro-n- [1,2,3,4,6-13C5]hexanoic acid	84	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluoro-n- [1,2,3,4-13C4]heptanoic acid	88	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluoro-n- [1,2-13C2]dodecanoic acid	86	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluoro-n-[13C4]butanoic acid	92	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:01



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010-011 (MVD-4R raw)
SAMPLE ID #: 291-9174-4
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 12:08

Isotope Dilution (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluoro-n-[13C5]pentanoic acid	83	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluoro-n-[13C8]octanoic acid	88	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:01
Perfluoro-n-[13C9]nonanoic acid	85	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:01



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010_005 (MVD-5 raw)
SAMPLE ID #: 291-9174-5
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 12:09

Test Description (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.337	ng/L			0.337	1.91	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:15
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.345	ng/L			0.345	1.91	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:15
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	<0.393	ng/L			0.393	1.91	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:15
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.372	ng/L			0.372	1.91	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:15
4,8-Dioxa-3H-perfluorononan oic acid (ADONA)	<0.320	ng/L			0.320	1.91	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:15
9-Chlorohexadecafluoro-3-ox anonane-1-sulfonic acid (9Cl-PF3ONS)	<0.328	ng/L			0.328	1.91	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:15
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.404	ng/L			0.404	1.91	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:15
Nonafluoro-3,6-dioxaheptanoi c acid (NFDHA)	<0.631	ng/L			0.631	1.91	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<0.255	ng/L			0.255	1.91	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluoro-3-methoxypropanoi c acid (PFMPA)	<0.412	ng/L			0.412	1.91	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.346	ng/L			0.346	1.91	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluorobutanesulfonic acid (PFBS)	4.25	ng/L			0.327	1.91	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluorobutanoic acid (PFBA)	3.99	ng/L			0.474	1.91	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluorodecanoic acid (PFDA)	<0.354	ng/L			0.354	1.91	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluorododecanoic acid (PFDoA)	<0.326	ng/L			0.326	1.91	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluoroheptanesulfonic acid (PFHpS)	<0.343	ng/L			0.343	1.91	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluoroheptanoic acid (PFHpA)	7.21	ng/L			0.354	1.91	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluorohexanesulfonic acid (PFHxS)	1.95	ng/L	✓		0.415	1.91	1	18	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluorohexanoic acid (PFHxA)	9.50	ng/L			0.314	1.91	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluorononanoic acid (PFNA)	<0.335	ng/L	✓		0.335	1.91	1	11	TF - DER	07/28/26 08:44	08/07/26 06:15



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010_005 (MVD-5 raw)
SAMPLE ID #: 291-9174-5
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 12:09

Test Description (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluorooctanesulfonic acid (PFOS)	1.59	ng/L	✓	J	0.338	1.91	1	15	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluorooctanoic acid (PFOA)	34.5	ng/L	✗		0.514	1.91	1	12	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluoropentanesulfonic acid (PFPeS)	<0.340	ng/L			0.340	1.91	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluoropentanoic acid (PFPeA)	6.99	ng/L			0.428	1.91	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluoroundecanoic acid (PFUnA)	<0.346	ng/L			0.346	1.91	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:15

Isotope Dilution (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
13C3-HFPO-DA	88	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:15
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] decanesulfonic acid	105	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:15
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] hexanesulfonic acid	115	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:15
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] octanesulfonic acid	112	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluoro-1-[1,2,3-13C3] hexanesulfonic acid	115	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluoro-1-[13C8] octanesulfonic acid	111	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluoro-1-[2,3,4-13C3] butanesulfonic acid	113	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluoro-n- [1,2,3,4,5,6,7-13C7]undecano ic acid	59	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluoro-n- [1,2,3,4,5,6-13C6]decanoic acid	58	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluoro-n- [1,2,3,4,6-13C5]hexanoic acid	93	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluoro-n- [1,2,3,4-13C4]heptanoic acid	91	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluoro-n- [1,2-13C2]dodecanoic acid	66	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluoro-n-[13C4]butanoic acid	95	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:15



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010_005 (MVD-5 raw)
SAMPLE ID #: 291-9174-5
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 12:09

Isotope Dilution (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluoro-n-[13C5]pentanoic acid	91	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluoro-n-[13C8]octanoic acid	86	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:15
Perfluoro-n-[13C9]nonanoic acid	67	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:15



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010_509 (TP-4/5 treated)
SAMPLE ID #: 291-9174-6
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 12:02

Test Description (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.351	ng/L			0.351	2.00	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:32
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.359	ng/L			0.359	2.00	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:32
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	<0.410	ng/L			0.410	2.00	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:32
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.388	ng/L			0.388	2.00	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:32
4,8-Dioxa-3H-perfluorononan oic acid (ADONA)	<0.333	ng/L			0.333	2.00	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:32
9-Chlorohexadecafluoro-3-ox anonane-1-sulfonic acid (9Cl-PF3ONS)	<0.342	ng/L			0.342	2.00	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:32
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.421	ng/L			0.421	2.00	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:32
Nonafluoro-3,6-dioxaheptanoi c acid (NFDHA)	<0.657	ng/L			0.657	2.00	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.265	ng/L			0.265	2.00	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluoro-3-methoxypropanoi c acid (PFMPA)	<0.429	ng/L			0.429	2.00	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.361	ng/L			0.361	2.00	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluorobutanesulfonic acid (PFBS)	<0.341	ng/L			0.341	2.00	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluorobutanoic acid (PFBA)	<0.494	ng/L			0.494	2.00	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluorodecanoic acid (PFDA)	<0.369	ng/L			0.369	2.00	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluorododecanoic acid (PFDoA)	<0.340	ng/L			0.340	2.00	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluoroheptanesulfonic acid (PFHpS)	<0.357	ng/L			0.357	2.00	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluoroheptanoic acid (PFHpA)	<0.369	ng/L			0.369	2.00	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluorohexanesulfonic acid (PFHxS)	<0.433	ng/L	✓		0.433	2.00	1	18	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluorohexanoic acid (PFHxA)	<0.327	ng/L			0.327	2.00	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluorononanoic acid (PFNA)	<0.349	ng/L	✓		0.349	2.00	1	11	TF - DER	08/07/26 10:13	08/09/26 00:32



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010_509 (TP-4/5 treated)
SAMPLE ID #: 291-9174-6
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 12:02

Test Description (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluorooctanesulfonic acid (PFOS)	<0.352	ng/L	✓		0.352	2.00	1	15	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluorooctanoic acid (PFOA)	<0.536	ng/L	✓		0.536	2.00	1	12	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluoropentanesulfonic acid (PFPeS)	<0.354	ng/L			0.354	2.00	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluoropentanoic acid (PFPeA)	<0.446	ng/L			0.446	2.00	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluoroundecanoic acid (PFUnA)	<0.361	ng/L			0.361	2.00	1	No Limit	TF - DER	08/07/26 10:13	08/09/26 00:32

Isotope Dilution (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
13C3-HFPO-DA	93	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:32
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] decanesulfonic acid	107	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:32
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] hexanesulfonic acid	105	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:32
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] octanesulfonic acid	110	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluoro-1-[1,2,3-13C3] hexanesulfonic acid	107	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluoro-1-[13C8] octanesulfonic acid	108	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluoro-1-[2,3,4-13C3] butanesulfonic acid	107	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluoro-n- [1,2,3,4,5,6,7-13C7]undecano ic acid	66	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluoro-n- [1,2,3,4,5,6-13C6]decanoic acid	60	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluoro-n- [1,2,3,4,6-13C5]hexanoic acid	88	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluoro-n- [1,2,3,4-13C4]heptanoic acid	84	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluoro-n- [1,2-13C2]dodecanoic acid	79	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluoro-n-[13C4]butanoic acid	90	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:32



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010_509 (TP-4/5 treated)
SAMPLE ID #: 291-9174-6
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 12:02

Isotope Dilution (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluoro-n-[13C5]pentanoic acid	92	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluoro-n-[13C8]octanoic acid	73	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:32
Perfluoro-n-[13C9]nonanoic acid	64	%	✓		1	50 - 200	TF - DER	08/07/26 10:13	08/09/26 00:32



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010_007 (MVD-7 raw)
SAMPLE ID #: 291-9174-7
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 10:00

Test Description (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.349	ng/L			0.349	1.98	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:42
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.357	ng/L			0.357	1.98	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:42
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	<0.407	ng/L			0.407	1.98	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:42
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.385	ng/L			0.385	1.98	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:42
4,8-Dioxa-3H-perfluorononan oic acid (ADONA)	<0.331	ng/L			0.331	1.98	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:42
9-Chlorohexadecafluoro-3-ox anonane-1-sulfonic acid (9Cl-PF3ONS)	<0.340	ng/L			0.340	1.98	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:42
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.418	ng/L			0.418	1.98	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:42
Nonafluoro-3,6-dioxaheptanoi c acid (NFDHA)	<0.653	ng/L			0.653	1.98	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEA)	<0.263	ng/L			0.263	1.98	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluoro-3-methoxypropanoi c acid (PFMPA)	<0.426	ng/L			0.426	1.98	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.359	ng/L			0.359	1.98	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluorobutanesulfonic acid (PFBS)	2.56	ng/L			0.339	1.98	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluorobutanoic acid (PFBA)	2.25	ng/L			0.490	1.98	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluorodecanoic acid (PFDA)	<0.366	ng/L			0.366	1.98	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluorododecanoic acid (PFDoA)	<0.338	ng/L			0.338	1.98	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluoroheptanesulfonic acid (PFHpS)	<0.355	ng/L			0.355	1.98	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluoroheptanoic acid (PFHpA)	2.72	ng/L			0.366	1.98	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluorohexanesulfonic acid (PFHxS)	1.34	ng/L	✓	J	0.430	1.98	1	18	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluorohexanoic acid (PFHxA)	2.19	ng/L			0.325	1.98	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluorononanoic acid (PFNA)	<0.347	ng/L	✓		0.347	1.98	1	11	TF - DER	07/28/26 08:44	08/07/26 06:42



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010_007 (MVD-7 raw)
SAMPLE ID #: 291-9174-7
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 10:00

Test Description (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluorooctanesulfonic acid (PFOS)	2.91	ng/L	✓		0.350	1.98	1	15	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluorooctanoic acid (PFOA)	20.5	ng/L	✗		0.532	1.98	1	12	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluoropentanesulfonic acid (PFPeS)	<0.352	ng/L			0.352	1.98	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluoropentanoic acid (PFPeA)	1.71	ng/L		J	0.443	1.98	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluoroundecanoic acid (PFUnA)	<0.359	ng/L			0.359	1.98	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:42

Isotope Dilution (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
13C3-HFPO-DA	88	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:42
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] decanesulfonic acid	97	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:42
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] hexanesulfonic acid	157	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:42
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] octanesulfonic acid	100	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluoro-1-[1,2,3-13C3] hexanesulfonic acid	102	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluoro-1-[13C8] octanesulfonic acid	101	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluoro-1-[2,3,4-13C3] butanesulfonic acid	96	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluoro-n- [1,2,3,4,5,6,7-13C7]undecano ic acid	57	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluoro-n- [1,2,3,4,5,6-13C6]decanoic acid	62	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluoro-n- [1,2,3,4,6-13C5]hexanoic acid	92	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluoro-n- [1,2,3,4-13C4]heptanoic acid	95	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluoro-n- [1,2-13C2]dodecanoic acid	64	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluoro-n-[13C4]butanoic acid	103	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:42



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010_007 (MVD-7 raw)
SAMPLE ID #: 291-9174-7
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 10:00

Isotope Dilution (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluoro-n-[13C5]pentanoic acid	90	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluoro-n-[13C8]octanoic acid	90	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:42
Perfluoro-n-[13C9]nonanoic acid	77	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:42



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010_009 (MVD-8 raw)
SAMPLE ID #: 291-9174-8
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 10:01

Test Description (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.337	ng/L			0.337	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:56
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.345	ng/L			0.345	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:56
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	<0.394	ng/L			0.394	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:56
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.373	ng/L			0.373	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:56
4,8-Dioxa-3H-perfluorononan oic acid (ADONA)	<0.320	ng/L			0.320	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:56
9-Chlorohexadecafluoro-3-ox anonane-1-sulfonic acid (9Cl-PF3ONS)	<0.329	ng/L			0.329	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:56
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.405	ng/L			0.405	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:56
Nonafluoro-3,6-dioxaheptanoi c acid (NFDHA)	<0.632	ng/L			0.632	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.255	ng/L			0.255	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluoro-3-methoxypropanoi c acid (PFMPA)	<0.412	ng/L			0.412	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.347	ng/L			0.347	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluorobutanesulfonic acid (PFBS)	2.17	ng/L			0.328	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluorobutanoic acid (PFBA)	1.90	ng/L		J	0.475	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluorodecanoic acid (PFDA)	<0.355	ng/L			0.355	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluorododecanoic acid (PFDoA)	<0.327	ng/L			0.327	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluoroheptanesulfonic acid (PFHpS)	<0.343	ng/L			0.343	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluoroheptanoic acid (PFHpA)	2.69	ng/L			0.355	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluorohexanesulfonic acid (PFHxS)	1.05	ng/L	✓	J	0.416	1.92	1	18	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluorohexanoic acid (PFHxA)	2.44	ng/L			0.314	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluorononanoic acid (PFNA)	<0.336	ng/L	✓		0.336	1.92	1	11	TF - DER	07/28/26 08:44	08/07/26 06:56



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010_009 (MVD-8 raw)
SAMPLE ID #: 291-9174-8
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 10:01

Test Description (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluorooctanesulfonic acid (PFOS)	1.46	ng/L	✓	J	0.338	1.92	1	15	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluorooctanoic acid (PFOA)	20.5	ng/L	✗		0.515	1.92	1	12	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluoropentanesulfonic acid (PFPeS)	<0.340	ng/L			0.340	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluoropentanoic acid (PFPeA)	1.76	ng/L		J	0.428	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluoroundecanoic acid (PFUnA)	<0.347	ng/L			0.347	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 06:56

Isotope Dilution (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
13C3-HFPO-DA	87	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:56
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] decanesulfonic acid	97	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:56
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] hexanesulfonic acid	167	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:56
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] octanesulfonic acid	104	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluoro-1-[1,2,3-13C3] hexanesulfonic acid	105	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluoro-1-[13C8] octanesulfonic acid	102	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluoro-1-[2,3,4-13C3] butanesulfonic acid	97	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluoro-n- [1,2,3,4,5,6,7-13C7]undecano ic acid	91	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluoro-n- [1,2,3,4,5,6-13C6]decanoic acid	91	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluoro-n- [1,2,3,4,6-13C5]hexanoic acid	92	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluoro-n- [1,2,3,4-13C4]heptanoic acid	96	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluoro-n- [1,2-13C2]dodecanoic acid	91	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluoro-n-[13C4]butanoic acid	103	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:56



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010_009 (MVD-8 raw)
SAMPLE ID #: 291-9174-8
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 10:01

Isotope Dilution (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluoro-n-[13C5]pentanoic acid	86	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluoro-n-[13C8]octanoic acid	95	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:56
Perfluoro-n-[13C9]nonanoic acid	92	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 06:56



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010_510 (TP-7/8 treated)
SAMPLE ID #: 291-9174-9
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 10:10

Test Description (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.337	ng/L			0.337	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 07:09
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.345	ng/L			0.345	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 07:09
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	<0.394	ng/L			0.394	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 07:09
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.373	ng/L			0.373	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 07:09
4,8-Dioxa-3H-perfluorononan oic acid (ADONA)	<0.320	ng/L			0.320	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 07:09
9-Chlorohexadecafluoro-3-ox anonane-1-sulfonic acid (9Cl-PF3ONS)	<0.329	ng/L			0.329	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 07:09
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.404	ng/L			0.404	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 07:09
Nonafluoro-3,6-dioxaheptanoi c acid (NFDHA)	<0.631	ng/L			0.631	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.255	ng/L			0.255	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluoro-3-methoxypropanoi c acid (PFMPA)	<0.412	ng/L			0.412	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.347	ng/L			0.347	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluorobutanesulfonic acid (PFBS)	<0.328	ng/L			0.328	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluorobutanoic acid (PFBA)	<0.474	ng/L			0.474	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluorodecanoic acid (PFDA)	<0.354	ng/L			0.354	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluorododecanoic acid (PFDoA)	<0.327	ng/L			0.327	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluoroheptanesulfonic acid (PFHpS)	<0.343	ng/L			0.343	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluoroheptanoic acid (PFHpA)	<0.354	ng/L			0.354	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluorohexanesulfonic acid (PFHxS)	<0.416	ng/L	✓		0.416	1.92	1	18	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluorohexanoic acid (PFHxA)	<0.314	ng/L			0.314	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluorononanoic acid (PFNA)	<0.335	ng/L	✓		0.335	1.92	1	11	TF - DER	07/28/26 08:44	08/07/26 07:09



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010_510 (TP-7/8 treated)
SAMPLE ID #: 291-9174-9
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 10:10

Test Description (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluorooctanesulfonic acid (PFOS)	<0.338	ng/L	✓		0.338	1.92	1	15	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluorooctanoic acid (PFOA)	<0.514	ng/L	✓		0.514	1.92	1	12	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluoropentanesulfonic acid (PFPeS)	<0.340	ng/L			0.340	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluoropentanoic acid (PFPeA)	<0.428	ng/L			0.428	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluoroundecanoic acid (PFUnA)	<0.347	ng/L			0.347	1.92	1	No Limit	TF - DER	07/28/26 08:44	08/07/26 07:09

Isotope Dilution (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
13C3-HFPO-DA	58	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 07:09
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] decanesulfonic acid	106	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 07:09
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] hexanesulfonic acid	109	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 07:09
1H,1H,2H,2H-Perfluoro-1- [1,2-13C2] octanesulfonic acid	111	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluoro-1-[1,2,3-13C3] hexanesulfonic acid	116	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluoro-1-[13C8] octanesulfonic acid	114	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluoro-1-[2,3,4-13C3] butanesulfonic acid	116	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluoro-n- [1,2,3,4,5,6,7-13C7]undecano ic acid	57	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluoro-n- [1,2,3,4,5,6-13C6]decanoic acid	53	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluoro-n- [1,2,3,4,6-13C5]hexanoic acid	62	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluoro-n- [1,2,3,4-13C4]heptanoic acid	60	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluoro-n- [1,2-13C2]dodecanoic acid	67	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluoro-n-[13C4]butanoic acid	67	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 07:09



CERTIFICATE OF ANALYSIS FOR DRINKING WATER

CLIENT SAMPLE ID: 1531010_510 (TP-7/8 treated)
SAMPLE ID #: 291-9174-9
CLIENT JOB #:
OTHER SAMPLE INFO:
SAMPLED BY: Miner, Ronald
COLLECTION DATE/TIME: 07/23/26 10:10

Isotope Dilution (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
Perfluoro-n-[13C5]pentanoic acid	68	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluoro-n-[13C8]octanoic acid	59	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 07:09
Perfluoro-n-[13C9]nonanoic acid	55	%	✓		1	50 - 200	TF - DER	07/28/26 08:44	08/07/26 07:09



