

## Eurofins Derry Laboratory Report

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

**Job ID:** 291-5058-1  
**Date Received:** 5/22/2026 2:04 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 5/22/2026 2:04 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 5.0°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 291-5058-1, 291-5058-2, 291-5058-3, 291-5058-4, 291-5058-5, 291-5058-6, 291-5058-7, 291-5058-8, and 291-5058-9 have been evaluated against the following action limits and/or Maximum Contaminant Levels:

- EPA Primary Limits: 291 - NH DW MCLs
- EPA Secondary Limits: NH Secondary DW MCL
- State Limits: EPA Secondary DW MCL with Aluminum set at 200 ug/L

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.



Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_008 (MVD-2 raw)  
**SAMPLE ID #:** 291-5058-1  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 11:55






Test Description (EPA 533)	Results	Units	Pass/Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosafuoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.351	ng/L			0.351	1.99	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:12
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.359	ng/L			0.359	1.99	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:12
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	<0.410	ng/L			0.410	1.99	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:12
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.388	ng/L			0.388	1.99	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:12
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.333	ng/L			0.333	1.99	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:12
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.342	ng/L			0.342	1.99	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:12
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.420	ng/L			0.420	1.99	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:12
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.657	ng/L			0.657	1.99	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.265	ng/L			0.265	1.99	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.428	ng/L			0.428	1.99	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.361	ng/L			0.361	1.99	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluorobutanesulfonic acid (PFBS)	3.12	ng/L			0.341	1.99	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluorobutanoic acid (PFBA)	2.04	ng/L			0.493	1.99	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluorodecanoic acid (PFDA)	<0.369	ng/L			0.369	1.99	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluorododecanoic acid (PFDoA)	<0.340	ng/L			0.340	1.99	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluoroheptanesulfonic acid (PFHpS)	<0.357	ng/L			0.357	1.99	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluoroheptanoic acid (PFHpA)	2.74	ng/L			0.369	1.99	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluorohexanesulfonic acid (PFHxS)	0.961	ng/L	✓	J	0.432	1.99	1	18	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluorohexanoic acid (PFHxA)	3.59	ng/L			0.327	1.99	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluorononanoic acid (PFNA)	0.471	ng/L	✓	J	0.349	1.99	1	11	SH - DER	05/27/26 09:13	05/27/26 21:12

## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_008 (MVD-2 raw)  
**SAMPLE ID #:** 291-5058-1  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 11:55

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)	2.54	ng/L	✓		0.352	1.99	1	15	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluorooctanoic acid (PFOA)	14.6	ng/L	✗		0.535	1.99	1	12	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluoropentanesulfonic acid (PFPeS)	<0.354	ng/L			0.354	1.99	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluoropentanoic acid (PFPeA)	2.40	ng/L			0.445	1.99	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluoroundecanoic acid (PFUnA)	<0.361	ng/L			0.361	1.99	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:12

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	SH - DER	05/27/26 09:13	05/27/26 21:12
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] decanesulfonic acid	112	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:12
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] hexanesulfonic acid	99	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:12
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] octanesulfonic acid	96	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluoro-1-[1,2,3-13C3] hexanesulfonic acid	104	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluoro-1-[13C8] octanesulfonic acid	108	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluoro-1-[2,3,4-13C3] butanesulfonic acid	99	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	68	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	64	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	93	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	92	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluoro-n-[1,2-13C2]dodecanoic acid	75	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluoro-n-[13C4]butanoic acid	97	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:12

Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_008 (MVD-2 raw)  
**SAMPLE ID #:** 291-5058-1  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 11:55

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	93	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluoro-n-[13C8]octanoic acid	87	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:12
Perfluoro-n-[13C9]nonanoic acid	78	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:12



Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_012 (MVD-9 raw)  
**SAMPLE ID #:** 291-5058-2  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 11:56

Test Description (EPA 533)	Results	Units	Pass/Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosafuoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.349	ng/L			0.349	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:26
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.357	ng/L			0.357	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:26
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	<0.407	ng/L			0.407	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:26
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.385	ng/L			0.385	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:26
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.331	ng/L			0.331	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:26
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.340	ng/L			0.340	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:26
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.418	ng/L			0.418	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:26
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.653	ng/L			0.653	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.263	ng/L			0.263	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.426	ng/L			0.426	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.359	ng/L			0.359	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluorobutanesulfonic acid (PFBS)	0.387	ng/L		J	0.339	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluorobutanoic acid (PFBA)	<0.490	ng/L			0.490	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluorodecanoic acid (PFDA)	<0.366	ng/L			0.366	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluorododecanoic acid (PFDoA)	<0.338	ng/L			0.338	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluoroheptanesulfonic acid (PFHpS)	<0.355	ng/L			0.355	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluoroheptanoic acid (PFHpA)	<0.366	ng/L			0.366	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluorohexanesulfonic acid (PFHxS)	<0.430	ng/L	✓		0.430	1.98	1	18	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluorohexanoic acid (PFHxA)	<0.325	ng/L			0.325	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluorononanoic acid (PFNA)	<0.347	ng/L	✓		0.347	1.98	1	11	SH - DER	05/27/26 09:13	05/27/26 21:26

Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	






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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_012 (MVD-9 raw)  
**SAMPLE ID #:** 291-5058-2  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 11:56

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)	0.553	ng/L	✓	J	0.350	1.98	1	15	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluorooctanoic acid (PFOA)	2.47	ng/L	✓		0.532	1.98	1	12	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluoropentanesulfonic acid (PFPeS)	<0.352	ng/L			0.352	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluoropentanoic acid (PFPeA)	<0.443	ng/L			0.443	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluoroundecanoic acid (PFUnA)	<0.359	ng/L			0.359	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:26

Isotope Dilution (EPA 533)	Results	Units	Pass/Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
13C3-HFPO-DA	116	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:26
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] decanesulfonic acid	116	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:26
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] hexanesulfonic acid	110	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:26
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] octanesulfonic acid	104	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluoro-1-[1,2,3-13C3] hexanesulfonic acid	116	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluoro-1-[13C8] octanesulfonic acid	117	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluoro-1-[2,3,4-13C3] butanesulfonic acid	107	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	103	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	98	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	108	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	109	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluoro-n-[1,2-13C2]dodecanoic acid	103	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluoro-n-[13C4]butanoic acid	116	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:26

Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_012 (MVD-9 raw)  
**SAMPLE ID #:** 291-5058-2  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 11:56

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	111	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluoro-n-[13C8]octanoic acid	107	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:26
Perfluoro-n-[13C9]nonanoic acid	108	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:26



Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_512 (TP-2/9 treated)  
**SAMPLE ID #:** 291-5058-3  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 12:01

Test Description (EPA 533)	Results	Units	Pass/Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosafuoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.348	ng/L			0.348	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:39
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.356	ng/L			0.356	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:39
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	<0.406	ng/L			0.406	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:39
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.384	ng/L			0.384	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:39
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.330	ng/L			0.330	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:39
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.339	ng/L			0.339	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:39
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.417	ng/L			0.417	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:39
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.651	ng/L			0.651	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.263	ng/L			0.263	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.425	ng/L			0.425	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.358	ng/L			0.358	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluorobutanesulfonic acid (PFBS)	<0.338	ng/L			0.338	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluorobutanoic acid (PFBA)	1.60	ng/L		J	0.489	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluorodecanoic acid (PFDA)	<0.366	ng/L			0.366	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluorododecanoic acid (PFDoA)	<0.337	ng/L			0.337	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluoroheptanesulfonic acid (PFHpS)	<0.354	ng/L			0.354	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluoroheptanoic acid (PFHpA)	<0.366	ng/L			0.366	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluorohexanesulfonic acid (PFHxS)	<0.429	ng/L	✓		0.429	1.98	1	18	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluorohexanoic acid (PFHxA)	<0.324	ng/L			0.324	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluorononanoic acid (PFNA)	<0.346	ng/L	✓		0.346	1.98	1	11	SH - DER	05/27/26 09:13	05/27/26 21:39

Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	






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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_512 (TP-2/9 treated)  
**SAMPLE ID #:** 291-5058-3  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 12:01

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)	<0.349	ng/L	✓		0.349	1.98	1	15	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluorooctanoic acid (PFOA)	<0.531	ng/L	✓		0.531	1.98	1	12	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluoropentanesulfonic acid (PFPeS)	<0.351	ng/L			0.351	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluoropentanoic acid (PFPeA)	<0.442	ng/L			0.442	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluoroundecanoic acid (PFUnA)	<0.358	ng/L			0.358	1.98	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:39

Isotope Dilution (EPA 533)	Results	Units	Pass/Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
13C3-HFPO-DA	97	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:39
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] decanesulfonic acid	112	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:39
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] hexanesulfonic acid	100	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:39
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] octanesulfonic acid	109	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluoro-1-[1,2,3-13C3] hexanesulfonic acid	107	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluoro-1-[13C8] octanesulfonic acid	111	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluoro-1-[2,3,4-13C3] butanesulfonic acid	104	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	72	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	66	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	92	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	89	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluoro-n-[1,2-13C2]dodecanoic acid	77	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluoro-n-[13C4]butanoic acid	100	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:39

Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_512 (TP-2/9 treated)  
**SAMPLE ID #:** 291-5058-3  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 12:01

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	100	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluoro-n-[13C8]octanoic acid	85	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:39
Perfluoro-n-[13C9]nonanoic acid	76	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:39



Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010-011 (MVD-4R raw)  
**SAMPLE ID #:** 291-5058-4  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 11:28

Test Description (EPA 533)	Results	Units	Pass/Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosafuoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.345	ng/L			0.345	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:53
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.353	ng/L			0.353	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:53
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	<0.403	ng/L			0.403	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:53
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.382	ng/L			0.382	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:53
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.328	ng/L			0.328	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:53
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.337	ng/L			0.337	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:53
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.414	ng/L			0.414	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:53
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.647	ng/L			0.647	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.261	ng/L			0.261	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.422	ng/L			0.422	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.355	ng/L			0.355	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluorobutanesulfonic acid (PFBS)	6.25	ng/L			0.336	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluorobutanoic acid (PFBA)	5.57	ng/L			0.486	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluorodecanoic acid (PFDA)	<0.363	ng/L			0.363	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluorododecanoic acid (PFDoA)	<0.335	ng/L			0.335	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluoroheptanesulfonic acid (PFHpS)	<0.351	ng/L			0.351	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluoroheptanoic acid (PFHpA)	11.4	ng/L			0.363	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluorohexanesulfonic acid (PFHxS)	2.93	ng/L	✓		0.426	1.96	1	18	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluorohexanoic acid (PFHxA)	16.5	ng/L			0.322	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluorononanoic acid (PFNA)	0.533	ng/L	✓	J	0.343	1.96	1	11	SH - DER	05/27/26 09:13	05/27/26 21:53

Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	






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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010-011 (MVD-4R raw)  
**SAMPLE ID #:** 291-5058-4  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 11:28

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)	3.94	ng/L	✓		0.346	1.96	1	15	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluorooctanoic acid (PFOA)	75.6	ng/L	✗		0.527	1.96	1	12	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluoropentanesulfonic acid (PFPeS)	0.756	ng/L		J	0.348	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluoropentanoic acid (PFPeA)	10.3	ng/L			0.439	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluoroundecanoic acid (PFUnA)	<0.355	ng/L			0.355	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 21:53

Isotope Dilution (EPA 533)	Results	Units	Pass/Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
13C3-HFPO-DA	98	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:53
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] decanesulfonic acid	108	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:53
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] hexanesulfonic acid	95	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:53
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] octanesulfonic acid	97	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluoro-1-[1,2,3-13C3] hexanesulfonic acid	105	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluoro-1-[13C8] octanesulfonic acid	109	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluoro-1-[2,3,4-13C3] butanesulfonic acid	102	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	88	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	83	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	94	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	94	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluoro-n-[1,2-13C2]dodecanoic acid	86	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluoro-n-[13C4]butanoic acid	99	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:53

Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010-011 (MVD-4R raw)  
**SAMPLE ID #:** 291-5058-4  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 11:28

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	99	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluoro-n-[13C8]octanoic acid	92	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:53
Perfluoro-n-[13C9]nonanoic acid	92	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 21:53



Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_005 (MVD-5 raw)  
**SAMPLE ID #:** 291-5058-5  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 11:29






Test Description (EPA 533)	Results	Units	Pass/Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosafuoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.348	ng/L			0.348	1.97	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:06
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.355	ng/L			0.355	1.97	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:06
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	<0.406	ng/L			0.406	1.97	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:06
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.384	ng/L			0.384	1.97	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:06
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.330	ng/L			0.330	1.97	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:06
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.339	ng/L			0.339	1.97	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:06
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.417	ng/L			0.417	1.97	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:06
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.651	ng/L			0.651	1.97	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.263	ng/L			0.263	1.97	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.425	ng/L			0.425	1.97	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.357	ng/L			0.357	1.97	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluorobutanesulfonic acid (PFBS)	4.64	ng/L			0.338	1.97	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluorobutanoic acid (PFBA)	4.86	ng/L			0.489	1.97	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluorodecanoic acid (PFDA)	<0.365	ng/L			0.365	1.97	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluorododecanoic acid (PFDoA)	<0.337	ng/L			0.337	1.97	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluoroheptanesulfonic acid (PFHpS)	<0.353	ng/L			0.353	1.97	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluoroheptanoic acid (PFHpA)	7.49	ng/L			0.365	1.97	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluorohexanesulfonic acid (PFHxS)	2.01	ng/L	✓		0.429	1.97	1	18	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluorohexanoic acid (PFHxA)	11.1	ng/L			0.324	1.97	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluorononanoic acid (PFNA)	0.415	ng/L	✓	J	0.346	1.97	1	11	SH - DER	05/27/26 09:13	05/27/26 22:06

## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_005 (MVD-5 raw)  
**SAMPLE ID #:** 291-5058-5  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 11:29

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)	1.90	ng/L	✓	J	0.349	1.97	1	15	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluorooctanoic acid (PFOA)	38.8	ng/L	✗		0.530	1.97	1	12	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluoropentanesulfonic acid (PFPeS)	0.515	ng/L		J	0.351	1.97	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluoropentanoic acid (PFPeA)	8.21	ng/L			0.441	1.97	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluoroundecanoic acid (PFUnA)	<0.357	ng/L			0.357	1.97	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:06

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	SH - DER	05/27/26 09:13	05/27/26 22:06
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] decanesulfonic acid	106	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:06
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] hexanesulfonic acid	95	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:06
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] octanesulfonic acid	99	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluoro-1-[1,2,3-13C3] hexanesulfonic acid	105	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluoro-1-[13C8] octanesulfonic acid	111	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluoro-1-[2,3,4-13C3] butanesulfonic acid	100	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	84	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	77	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	92	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	90	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluoro-n-[1,2-13C2]dodecanoic acid	86	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluoro-n-[13C4]butanoic acid	94	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:06

Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_005 (MVD-5 raw)  
**SAMPLE ID #:** 291-5058-5  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 11:29

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	94	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluoro-n-[13C8]octanoic acid	91	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:06
Perfluoro-n-[13C9]nonanoic acid	86	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:06



Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_509 (TP-4/5 treated)  
**SAMPLE ID #:** 291-5058-6  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 11:25

Test Description (EPA 533)	Results	Units	Pass/Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosafuoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.343	ng/L			0.343	1.95	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:20
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.351	ng/L			0.351	1.95	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:20
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	<0.401	ng/L			0.401	1.95	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:20
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.379	ng/L			0.379	1.95	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:20
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.326	ng/L			0.326	1.95	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:20
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.334	ng/L			0.334	1.95	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:20
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.411	ng/L			0.411	1.95	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:20
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.643	ng/L			0.643	1.95	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.259	ng/L			0.259	1.95	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.419	ng/L			0.419	1.95	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.353	ng/L			0.353	1.95	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluorobutanesulfonic acid (PFBS)	<0.333	ng/L			0.333	1.95	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluorobutanoic acid (PFBA)	5.51	ng/L			0.483	1.95	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluorodecanoic acid (PFDA)	<0.361	ng/L			0.361	1.95	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluorododecanoic acid (PFDoA)	<0.332	ng/L			0.332	1.95	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluoroheptanesulfonic acid (PFHpS)	<0.349	ng/L			0.349	1.95	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluoroheptanoic acid (PFHpA)	<0.361	ng/L			0.361	1.95	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluorohexanesulfonic acid (PFHxS)	<0.423	ng/L	✓		0.423	1.95	1	18	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluorohexanoic acid (PFHxA)	<0.320	ng/L			0.320	1.95	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluorononanoic acid (PFNA)	<0.341	ng/L	✓		0.341	1.95	1	11	SH - DER	05/27/26 09:13	05/27/26 22:20

Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	






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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_509 (TP-4/5 treated)  
**SAMPLE ID #:** 291-5058-6  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 11:25

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)	<0.344	ng/L	✓		0.344	1.95	1	15	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluorooctanoic acid (PFOA)	<0.524	ng/L	✓		0.524	1.95	1	12	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluoropentanesulfonic acid (PFPeS)	<0.346	ng/L			0.346	1.95	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluoropentanoic acid (PFPeA)	<0.436	ng/L			0.436	1.95	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluoroundecanoic acid (PFUnA)	<0.353	ng/L			0.353	1.95	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:20

Isotope Dilution (EPA 533)	Results	Units	Pass/Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
13C3-HFPO-DA	91	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:20
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] decanesulfonic acid	107	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:20
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] hexanesulfonic acid	100	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:20
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] octanesulfonic acid	104	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluoro-1-[1,2,3-13C3] hexanesulfonic acid	102	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluoro-1-[13C8] octanesulfonic acid	107	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluoro-1-[2,3,4-13C3] butanesulfonic acid	104	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	79	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	76	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	89	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	88	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluoro-n-[1,2-13C2]dodecanoic acid	78	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluoro-n-[13C4]butanoic acid	89	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:20

Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_509 (TP-4/5 treated)  
**SAMPLE ID #:** 291-5058-6  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 11:25

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	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluoro-n-[13C8]octanoic acid	86	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:20
Perfluoro-n-[13C9]nonanoic acid	87	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:20



Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_007 (MVD-7 raw)  
**SAMPLE ID #:** 291-5058-7  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 10:48

Test Description (EPA 533)	Results	Units	Pass/Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosafuoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.344	ng/L			0.344	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:34
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.352	ng/L			0.352	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:34
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	<0.402	ng/L			0.402	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:34
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.381	ng/L			0.381	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:34
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.327	ng/L			0.327	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:34
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.336	ng/L			0.336	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:34
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.413	ng/L			0.413	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:34
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.645	ng/L			0.645	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.260	ng/L			0.260	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.421	ng/L			0.421	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.354	ng/L			0.354	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluorobutanesulfonic acid (PFBS)	2.61	ng/L			0.335	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluorobutanoic acid (PFBA)	2.41	ng/L			0.484	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluorodecanoic acid (PFDA)	<0.362	ng/L			0.362	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluorododecanoic acid (PFDoA)	<0.334	ng/L			0.334	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluoroheptanesulfonic acid (PFHpS)	<0.350	ng/L			0.350	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluoroheptanoic acid (PFHpA)	2.36	ng/L			0.362	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluorohexanesulfonic acid (PFHxS)	1.14	ng/L	✓	J	0.425	1.96	1	18	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluorohexanoic acid (PFHxA)	2.39	ng/L			0.321	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluorononanoic acid (PFNA)	<0.342	ng/L	✓		0.342	1.96	1	11	SH - DER	05/27/26 09:13	05/27/26 22:34

Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	






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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_007 (MVD-7 raw)  
**SAMPLE ID #:** 291-5058-7  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 10:48

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)	2.61	ng/L	✓		0.345	1.96	1	15	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluorooctanoic acid (PFOA)	20.1	ng/L	✗		0.525	1.96	1	12	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluoropentanesulfonic acid (PFPeS)	<0.347	ng/L			0.347	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluoropentanoic acid (PFPeA)	1.58	ng/L		J	0.437	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluoroundecanoic acid (PFUnA)	<0.354	ng/L			0.354	1.96	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:34

Isotope Dilution (EPA 533)	Results	Units	Pass/Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
13C3-HFPO-DA	109	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:34
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] decanesulfonic acid	99	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:34
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] hexanesulfonic acid	108	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:34
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] octanesulfonic acid	93	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluoro-1-[1,2,3-13C3] hexanesulfonic acid	105	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluoro-1-[13C8] octanesulfonic acid	104	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluoro-1-[2,3,4-13C3] butanesulfonic acid	102	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	75	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	72	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	100	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	103	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluoro-n-[1,2-13C2]dodecanoic acid	76	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluoro-n-[13C4]butanoic acid	106	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:34

Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_007 (MVD-7 raw)  
**SAMPLE ID #:** 291-5058-7  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 10:48

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	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluoro-n-[13C8]octanoic acid	98	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:34
Perfluoro-n-[13C9]nonanoic acid	90	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:34



Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_009 (MVD-8 raw)  
**SAMPLE ID #:** 291-5058-8  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 10:52






Test Description (EPA 533)	Results	Units	Pass/ Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosafuoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.337	ng/L			0.337	1.92	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:47
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.345	ng/L			0.345	1.92	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:47
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	<0.394	ng/L			0.394	1.92	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:47
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.373	ng/L			0.373	1.92	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:47
4,8-Dioxa-3H-perfluorononan oic acid (ADONA)	<0.320	ng/L			0.320	1.92	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:47
9-Chlorohexadecafluoro-3-ox anonane-1-sulfonic acid (9Cl-PF3ONS)	<0.329	ng/L			0.329	1.92	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:47
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.404	ng/L			0.404	1.92	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:47
Nonafluoro-3,6-dioxaheptanoi c acid (NFDHA)	<0.631	ng/L			0.631	1.92	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluoro (2-ethoxyethane) sulfonic acid (PFEESA)	<0.255	ng/L			0.255	1.92	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluoro-3-methoxypropanoi c acid (PFMPA)	<0.412	ng/L			0.412	1.92	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.347	ng/L			0.347	1.92	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluorobutanesulfonic acid (PFBS)	2.52	ng/L			0.328	1.92	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluorobutanoic acid (PFBA)	2.02	ng/L			0.474	1.92	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluorodecanoic acid (PFDA)	<0.355	ng/L			0.355	1.92	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluorododecanoic acid (PFDoA)	<0.327	ng/L			0.327	1.92	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluoroheptanesulfonic acid (PFHpS)	<0.343	ng/L			0.343	1.92	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluoroheptanoic acid (PFHpA)	2.64	ng/L			0.355	1.92	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluorohexanesulfonic acid (PFHxS)	1.16	ng/L	✓	J	0.416	1.92	1	18	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluorohexanoic acid (PFHxA)	2.71	ng/L			0.314	1.92	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluorononanoic acid (PFNA)	<0.335	ng/L	✓		0.335	1.92	1	11	SH - DER	05/27/26 09:13	05/27/26 22:47

## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_009 (MVD-8 raw)  
**SAMPLE ID #:** 291-5058-8  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 10:52

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)	1.71	ng/L	✓	J	0.338	1.92	1	15	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluorooctanoic acid (PFOA)	20.7	ng/L	✗		0.515	1.92	1	12	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluoropentanesulfonic acid (PFPeS)	<0.340	ng/L			0.340	1.92	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluoropentanoic acid (PFPeA)	1.70	ng/L		J	0.428	1.92	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluoroundecanoic acid (PFUnA)	<0.347	ng/L			0.347	1.92	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 22:47

Isotope Dilution (EPA 533)	Results	Units	Pass/Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
13C3-HFPO-DA	98	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:47
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] decanesulfonic acid	97	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:47
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] hexanesulfonic acid	107	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:47
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] octanesulfonic acid	88	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluoro-1-[1,2,3-13C3] hexanesulfonic acid	98	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluoro-1-[13C8] octanesulfonic acid	102	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluoro-1-[2,3,4-13C3] butanesulfonic acid	96	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	75	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	64	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	92	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	91	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluoro-n-[1,2-13C2]dodecanoic acid	76	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluoro-n-[13C4]butanoic acid	101	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:47

Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_009 (MVD-8 raw)  
**SAMPLE ID #:** 291-5058-8  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 10:52

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	95	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluoro-n-[13C8]octanoic acid	86	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:47
Perfluoro-n-[13C9]nonanoic acid	75	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 22:47



Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_510 (TP-7/8 treated)  
**SAMPLE ID #:** 291-5058-9  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 10:58






Test Description (EPA 533)	Results	Units	Pass/Fail	DQ Flag	MDL	RL	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
11-Chloroeicosafuoro-3-oxau ndecane-1-sulfonic acid (11Cl-PF3OUdS)	<0.334	ng/L			0.334	1.90	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 23:01
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	<0.342	ng/L			0.342	1.90	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 23:01
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	<0.390	ng/L			0.390	1.90	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 23:01
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	<0.369	ng/L			0.369	1.90	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 23:01
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.317	ng/L			0.317	1.90	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 23:01
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	<0.326	ng/L			0.326	1.90	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 23:01
Hexafluoropropylene oxide dimer acid (HFPO DA)	<0.401	ng/L			0.401	1.90	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 23:01
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	<0.626	ng/L			0.626	1.90	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	<0.253	ng/L			0.253	1.90	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluoro-3-methoxypropanoic acid (PFMPA)	<0.408	ng/L			0.408	1.90	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluoro-4-methoxybutanoic acid (PFMBA)	<0.344	ng/L			0.344	1.90	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluorobutanesulfonic acid (PFBS)	<0.325	ng/L			0.325	1.90	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluorobutanoic acid (PFBA)	<0.470	ng/L			0.470	1.90	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluorodecanoic acid (PFDA)	<0.351	ng/L			0.351	1.90	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluorododecanoic acid (PFDoA)	<0.324	ng/L			0.324	1.90	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluoroheptanesulfonic acid (PFHpS)	<0.340	ng/L			0.340	1.90	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluoroheptanoic acid (PFHpA)	<0.351	ng/L			0.351	1.90	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluorohexanesulfonic acid (PFHxS)	<0.412	ng/L	✓		0.412	1.90	1	18	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluorohexanoic acid (PFHxA)	<0.311	ng/L			0.311	1.90	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluorononanoic acid (PFNA)	<0.332	ng/L	✓		0.332	1.90	1	11	SH - DER	05/27/26 09:13	05/27/26 23:01

## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_510 (TP-7/8 treated)  
**SAMPLE ID #:** 291-5058-9  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 10:58

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)	<0.335	ng/L	✓		0.335	1.90	1	15	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluorooctanoic acid (PFOA)	<0.510	ng/L	✓		0.510	1.90	1	12	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluoropentanesulfonic acid (PFPeS)	<0.337	ng/L			0.337	1.90	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluoropentanoic acid (PFPeA)	<0.424	ng/L			0.424	1.90	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluoroundecanoic acid (PFUnA)	<0.344	ng/L			0.344	1.90	1	No Limit	SH - DER	05/27/26 09:13	05/27/26 23:01

Isotope Dilution (EPA 533)	Results	Units	Pass/Fail	DQ Flag	DF	Limit	Analyst /Lab	Date & Time Prepared	Date & Time Analyzed
13C3-HFPO-DA	89	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 23:01
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] decanesulfonic acid	104	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 23:01
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] hexanesulfonic acid	92	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 23:01
1H,1H,2H,2H-Perfluoro-1-[1,2-13C2] octanesulfonic acid	96	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluoro-1-[1,2,3-13C3] hexanesulfonic acid	98	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluoro-1-[13C8] octanesulfonic acid	104	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluoro-1-[2,3,4-13C3] butanesulfonic acid	98	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluoro-n-[1,2,3,4,5,6,7-13C7]undecanoic acid	84	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluoro-n-[1,2,3,4,5,6-13C6]decanoic acid	77	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluoro-n-[1,2,3,4,6-13C5]hexanoic acid	85	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluoro-n-[1,2,3,4-13C4]heptanoic acid	83	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluoro-n-[1,2-13C2]dodecanoic acid	84	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluoro-n-[13C4]butanoic acid	90	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 23:01

Legend	
Passes	
Fails EPA Primary	
Fails EPA Secondary	
Fails State Guideline	
Attention	

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## CERTIFICATE OF ANALYSIS FOR DRINKING WATER

**CLIENT SAMPLE ID:** 1531010\_510 (TP-7/8 treated)  
**SAMPLE ID #:** 291-5058-9  
**CLIENT JOB #:**  
**OTHER SAMPLE INFO:**  
**SAMPLED BY:** Miner Jr., Ronald  
**COLLECTION DATE/TIME:** 05/22/26 10:58

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	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluoro-n-[13C8]octanoic acid	79	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 23:01
Perfluoro-n-[13C9]nonanoic acid	80	%	✓		1	50 - 200	SH - DER	05/27/26 09:13	05/27/26 23:01



