

Trace Analytical Laboratories, Inc.  
2241 Black Creek Road  
Muskegon, MI 49444-2673



231-773-5998 Phone  
888-979-4469 Fax  
www.trace-labs.com

January 22, 2025

Mr. Dale Clark  
Clare, City of  
202 W. Fifth St.  
Clare, Mi 48617

RE: Trace Project 25A0340  
Client Project Quarterly PFAS- 1/8/25

Dear Mr. Clark:

Enclosed are your analytical results. The results of this report relate only to the samples listed in the body of this report.

All reports were examined through Trace's validation process to ensure that requirements for quality and completeness were satisfied. All reported analytical results were obtained in accordance with the methods referenced on the reports. Every practical effort was made to meet the reporting limit specifications for this work, however, some results may have raised reporting limits to correct for percent solids.

The results were obtained from Prein and Newhof.

If you have questions concerning this report, please contact me at 231.773.5998 or by email at [tbrewer@trace-labs.com](mailto:tbrewer@trace-labs.com).

Sincerely,

A handwritten signature in black ink that reads "Timothy W. Brewer". The signature is written in a cursive style with a long, sweeping underline.

Tim Brewer  
Project Manager

Enclosures

Trace Analytical Laboratories, Inc.  
2241 Black Creek Road  
Muskegon, MI 49444-2673



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### SAMPLE SUMMARY

Trace Project ID: 25A0340  
Client Project ID: Quarterly PFAS- 1/8/25

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
25A0340-01	Plant Tap	Drinking Water	SDII	01/09/25 09:13	01/09/25 12:10

WSSN: 1420

January 22, 2025

Trace Analytical Laboratories, Inc.  
2241 Black Creek Road  
Muskegon, MI 49444-2673

RE: 25A0340

Order No.: 2501605

Dear Mr. Jon Mink:

[Guide to Reading Lab Result](#)

Prein&Newhof Laboratory received 2 sample(s) on 1/10/2025 on your behalf. Your test results are provided in your Prein&Newhof Laboratory analytical report. Please carefully review your analytical report, noting the following.

- You can be assured that the sample results meet the Safe Drinking Water Criteria as no analyte tested exceeds the EPA Maximum Contaminant Level unless indicated by an " \* " in the "Qual" column.
- You can be assured that all samples were received and analyzed within required holding times unless noted by a "H" in the "Qual" column.
- You can be assured that all quality control data is within laboratory-defined or method-specified acceptance limits unless defined by the addition of an attached Case Narrative document.
- When testing for PFHxS, PFOA, PFOS, MeFOSAA, and EtFOSAA results include both branched and linear isotopes. We extract a Method Blank and analyze it with the preparation batch. Method Blank analytes are within the Reporting Limit (RL).

We use EPA Approved Methods for all regulated parameters. EPA Lab #: MI000014

We are certified by the State of Michigan for Drinking Water Analysis for: Coliform Bacteria, Metals, Cyanide, Minerals, Anions, Volatile Organics, THM's, Haloacetic Acids, and PFAS.  
Michigan Lab ID#: 0020

To learn more about interpreting your Drinking Water Test Results and reading your Lab Report, follow the link above to view our "Guide to Reading Lab Results". If you have any concerns about your test results or need additional help, please call: 616-364-7600 or email me: [sbylsma@preinnewhof.com](mailto:sbylsma@preinnewhof.com).

Thank you for trusting Prein&Newhof with your testing needs.

Sincerely,



Steve Bylsma  
Laboratory Manager

<b>CLIENT:</b>	Trace Analytical Laboratories, Inc.	<b>Collection Date</b>	1/9/2025 9:13:00 AM
<b>Project:</b>	25A0340	<b>Received Date:</b>	1/10/2025 10:50:00 AM
<b>Lab ID:</b>	2501605-01	<b>Matrix:</b>	DRINKING WATER
<b>Client Sample ID:</b>	25A0340-01	<b>Sampled By:</b>	SDII
<b>Location:</b>	Plant Tap		

Analyses	Result	RL	Qual	Units	MCL	Date Analyzed
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**FIELD PARAMETERS**

WSSN# 1420

**PFAS, DRINKING WATER**

**EPA 537.1**

Analyst: **JS**

PFBS	3.5	2.0		ng/L		1/18/2025 9:25:00 AM
PFHxA	< 2.0	2.0		ng/L		1/18/2025 9:25:00 AM
HFPO-DA	< 2.0	2.0		ng/L	10	1/18/2025 9:25:00 AM
PFHxS	7.2	2.0		ng/L	10	1/18/2025 9:25:00 AM
PFHpA	< 2.0	2.0		ng/L		1/18/2025 9:25:00 AM
ADONA	< 2.0	2.0		ng/L		1/18/2025 9:25:00 AM
PFOA	< 2.0	2.0		ng/L	4.0	1/18/2025 9:25:00 AM
PFOS	4.1	2.0	*	ng/L	4.0	1/18/2025 9:25:00 AM
PFNA	< 2.0	2.0		ng/L	10	1/18/2025 9:25:00 AM
9CI-PF3ONS	< 2.0	2.0		ng/L		1/18/2025 9:25:00 AM
PFDA	< 2.0	2.0		ng/L		1/18/2025 9:25:00 AM
NMeFOSAA	< 2.0	2.0		ng/L		1/18/2025 9:25:00 AM
NEtFOSAA	< 2.0	2.0		ng/L		1/18/2025 9:25:00 AM
PFUnA	< 2.0	2.0		ng/L		1/18/2025 9:25:00 AM
11CI-PF3OUdS	< 2.0	2.0		ng/L		1/18/2025 9:25:00 AM
PFDoA	< 2.0	2.0		ng/L		1/18/2025 9:25:00 AM
PFTTrDA	< 2.0	2.0		ng/L		1/18/2025 9:25:00 AM
PFTA	< 2.0	2.0		ng/L		1/18/2025 9:25:00 AM
PFAS Hazard Index	0.72	0.20		ng/L	1.0	1/18/2025 9:25:00 AM
Surr: d5-N-EtFOSAA	71.6	70 - 130		%Rec		1/18/2025 9:25:00 AM
Surr: M3HFPO-DA	102	70 - 130		%Rec		1/18/2025 9:25:00 AM
Surr: MPFDA	98.4	70 - 130		%Rec		1/18/2025 9:25:00 AM
Surr: MPFHxA	94.1	70 - 130		%Rec		1/18/2025 9:25:00 AM

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	< Not Detected at the Reporting Limit
	H Holding times for preparation or analysis exceeded	MCL Maximum Contaminant Level
	PL Permit Limit	RL Reporting Limit

**CLIENT:** Trace Analytical Laboratories, Inc.  
**Project:** 25A0340  
**Lab ID:** 2501605-02  
**Client Sample ID:** Field Blank  
**Location:**

**Collection Date** 1/9/2025 9:13:00 AM  
**Received Date:** 1/10/2025 10:50:00 AM  
**Matrix:** BLANK  
**Sampled By:** SDII

Analyses	Result	RL	Qual	Units	MCL	Date Analyzed
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**PFAS, DRINKING WATER**

**EPA 537.1**

Analyst: **JS**

PFBS	< 2.0	2.0		ng/L		1/22/2025 1:40:00 AM
PFHxA	< 2.0	2.0		ng/L		1/22/2025 1:40:00 AM
HFPO-DA	< 2.0	2.0		ng/L	10	1/22/2025 1:40:00 AM
PFHxS	< 2.0	2.0		ng/L	10	1/22/2025 1:40:00 AM
PFHpA	< 2.0	2.0		ng/L		1/22/2025 1:40:00 AM
ADONA	< 2.0	2.0		ng/L		1/22/2025 1:40:00 AM
PFOA	< 2.0	2.0		ng/L	4.0	1/22/2025 1:40:00 AM
PFOS	< 2.0	2.0		ng/L	4.0	1/22/2025 1:40:00 AM
PFNA	< 2.0	2.0		ng/L	10	1/22/2025 1:40:00 AM
9CI-PF3ONS	< 2.0	2.0		ng/L		1/22/2025 1:40:00 AM
PFDA	< 2.0	2.0		ng/L		1/22/2025 1:40:00 AM
NMeFOSAA	< 2.0	2.0		ng/L		1/22/2025 1:40:00 AM
NEtFOSAA	< 2.0	2.0		ng/L		1/22/2025 1:40:00 AM
PFUnA	< 2.0	2.0		ng/L		1/22/2025 1:40:00 AM
11CI-PF3OUdS	< 2.0	2.0		ng/L		1/22/2025 1:40:00 AM
PFDaA	< 2.0	2.0		ng/L		1/22/2025 1:40:00 AM
PFTTrDA	< 2.0	2.0		ng/L		1/22/2025 1:40:00 AM
PFTA	< 2.0	2.0		ng/L		1/22/2025 1:40:00 AM
PFAS Hazard Index	< 0.20	0.20		ng/L	1.0	1/22/2025 1:40:00 AM
Surr: d5-N-EtFOSAA	85.7	70 - 130		%Rec		1/22/2025 1:40:00 AM
Surr: M3HFPO-DA	94.5	70 - 130		%Rec		1/22/2025 1:40:00 AM
Surr: MPFDA	93.0	70 - 130		%Rec		1/22/2025 1:40:00 AM
Surr: MPFHxA	92.7	70 - 130		%Rec		1/22/2025 1:40:00 AM

**Qualifiers:** \* Value exceeds Maximum Contaminant Level. < Not Detected at the Reporting Limit  
 H Holding times for preparation or analysis exceeded MCL Maximum Contaminant Level  
 PL Permit Limit RL Reporting Limit

WO#: 2501605

1/22/2025

**Client:** Trace Analytical Laboratories, Inc.

**Project:** 25A0340

**TestCode:** PFAS-DW

Sample ID: 2501677-01ADUP	SampType: DUP	TestCode: PFAS-DW	Units: ng/L	Prep Date: 1/17/2025	RunNo: 43098						
Client ID: BatchQC	Batch ID: 7725	TestNo: EPA 537.1		Analysis Date: 1/18/2025	SeqNo: 863925						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
PFBS	4.8	1.7						4.781	0.953	30	
PFHxA	< 1.7	1.7						0	0	30	
HFPO-DA	< 1.7	1.7						0	0	30	
PFHxS	2.9	1.7						2.815	3.10	30	
PFHpA	< 1.7	1.7						0	0	30	
ADONA	< 1.7	1.7						0	0	30	
PFOA	1.8	1.7						1.868	1.38	30	
PFOS	5.5	1.7						5.211	5.18	30	*
PFNA	< 1.7	1.7						0	0	30	
9CI-PF3ONS	< 1.7	1.7						0	0	30	
PFDA	< 1.7	1.7						0	0	30	
NMeFOSAA	< 1.7	1.7						0	0	30	
NEtFOSAA	< 1.7	1.7						0	0	30	
PFUnA	< 1.7	1.7						0	0	30	
11CI-PF3OUdS	< 1.7	1.7						0	0	30	
PFDoA	< 1.7	1.7						0	0	30	
PFTTrDA	< 1.7	1.7						0	0	30	
PFTA	< 1.7	1.7						0	0	30	
PFAS Hazard Index	0.29	0.19						0.2839	3.09	0	
Surr: d5-N-EtFOSAA	270		307.7		87.6	70	130		0	0	
Surr: M3HFPO-DA	210		192.3		107	70	130		0	0	
Surr: MPFDA	78		76.92		102	70	130		0	0	
Surr: MPFHxA	74		76.92		96.2	70	130		0	0	

**Qualifiers:** \* Value exceeds Maximum Contaminant Level.  
MCL Maximum Contaminant Level

< Not Detected at the Reporting Limit  
PL Permit Limit

H Holding times for preparation or analysis exceeded  
RL Reporting Limit

WO#: 2501605

1/22/2025

**Client:** Trace Analytical Laboratories, Inc.

**Project:** 25A0340

**TestCode:** PFAS-DW

Sample ID: <b>2501925-01AMS</b>	SampType: <b>MS-MID</b>	TestCode: <b>PFAS-DW</b>	Units: <b>ng/L</b>	Prep Date: <b>1/17/2025</b>	RunNo: <b>43098</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>7725</b>	TestNo: <b>EPA 537.1</b>		Analysis Date: <b>1/18/2025</b>	SeqNo: <b>863942</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
PFBS	65	1.7	75.47	0	85.7	70	130				
PFHxA	67	1.7	75.47	0	88.4	70	130				
HFPO-DA	70	1.7	75.47	0	92.9	70	130				
PFHxS	66	1.7	75.47	0	87.7	70	130				
PFHpA	66	1.7	75.47	0	87.4	70	130				
ADONA	65	1.7	75.47	0	85.7	70	130				
PFOA	66	1.7	75.47	0	87.8	70	130				
PFOS	63	1.7	75.47	0	83.2	70	130				
PFNA	67	1.7	75.47	0	89.0	70	130				
9CI-PF3ONS	65	1.7	75.47	0	86.1	70	130				
PFDA	67	1.7	75.47	0	89.0	70	130				
NMeFOSAA	65	1.7	75.47	0	86.5	70	130				
NEtFOSAA	64	1.7	75.47	0	84.8	70	130				
PFUnA	65	1.7	75.47	0	86.5	70	130				
11CI-PF3OUdS	63	1.7	75.47	0	84.0	70	130				
PFDoA	64	1.7	75.47	0	85.3	70	130				
PFTTrDA	73	1.7	75.47	0	96.5	70	130				
PFTA	66	1.7	75.47	0	86.9	70	130				
Surr: d5-N-EtFOSAA	250		301.9		83.3	70	130				
Surr: M3HFPO-DA	180		188.7		93.7	70	130				
Surr: MPFDA	67		75.47		88.5	70	130				
Surr: MPFHxA	65		75.47		86.1	70	130				

**Qualifiers:** \* Value exceeds Maximum Contaminant Level.  
MCL Maximum Contaminant Level

< Not Detected at the Reporting Limit  
PL Permit Limit

H Holding times for preparation or analysis exceeded  
RL Reporting Limit

WO#: 2501605

1/22/2025

**Client:** Trace Analytical Laboratories, Inc.

**Project:** 25A0340

**TestCode:** PFAS-DW

Sample ID: <b>LCS-high-7725 B</b>	SampType: <b>LCS-HIGH</b>	TestCode: <b>PFAS-DW</b>	Units: <b>ng/L</b>	Prep Date: <b>1/17/2025</b>	RunNo: <b>43098</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>7725</b>	TestNo: <b>EPA 537.1</b>	Analysis Date: <b>1/18/2025</b>	SeqNo: <b>863943</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
PFBS	180	1.8	200.0	0	91.3	70	130				
PFHxA	200	1.8	200.0	0	99.7	70	130				
HFPO-DA	210	1.8	200.0	0	103	70	130				
PFHxS	200	1.8	200.0	0	101	70	130				
PFHpA	200	1.8	200.0	0	102	70	130				
ADONA	200	1.8	200.0	0	98.9	70	130				
PFOA	200	1.8	200.0	0	102	70	130				
PFOS	190	1.8	200.0	0	96.8	70	130				
PFNA	210	1.8	200.0	0	104	70	130				
9CI-PF3ONS	200	1.8	200.0	0	98.9	70	130				
PFDA	210	1.8	200.0	0	103	70	130				
NMeFOSAA	200	1.8	200.0	0	99.5	70	130				
NEtFOSAA	200	1.8	200.0	0	98.5	70	130				
PFUnA	200	1.8	200.0	0	101	70	130				
11CI-PF3OUdS	200	1.8	200.0	0	98.4	70	130				
PFDoA	200	1.8	200.0	0	100	70	130				
PFTTrDA	220	1.8	200.0	0	111	70	130				
PFTA	200	1.8	200.0	0	99.6	70	130				
Surr: d5-N-EtFOSAA	310		320.0		96.0	70	130				
Surr: M3HFPO-DA	210		200.0		104	70	130				
Surr: MPFDA	82		80.00		103	70	130				
Surr: MPFHxA	78		80.00		97.7	70	130				

**Qualifiers:** \* Value exceeds Maximum Contaminant Level. < Not Detected at the Reporting Limit H Holding times for preparation or analysis exceeded  
MCL Maximum Contaminant Level PL Permit Limit RL Reporting Limit

WO#: 2501605

1/22/2025

**Client:** Trace Analytical Laboratories, Inc.

**Project:** 25A0340

**TestCode:** PFAS-DW

Sample ID: <b>MB-S6-7725</b>	SampType: <b>MBLK</b>	TestCode: <b>PFAS-DW</b>	Units: <b>ng/L</b>	Prep Date: <b>1/17/2025</b>	RunNo: <b>43098</b>						
Client ID: <b>PBW</b>	Batch ID: <b>7725</b>	TestNo: <b>EPA 537.1</b>		Analysis Date: <b>1/18/2025</b>	SeqNo: <b>863945</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
PFBS	< 1.8	1.8									
PFHxA	< 1.8	1.8									
HFPO-DA	< 1.8	1.8									
PFHxS	< 1.8	1.8									
PFHpA	< 1.8	1.8									
ADONA	< 1.8	1.8									
PFOA	< 1.8	1.8									
PFOS	< 1.8	1.8									
PFNA	< 1.8	1.8									
9CI-PF3ONS	< 1.8	1.8									
PFDA	< 1.8	1.8									
NMeFOSAA	< 1.8	1.8									
NEtFOSAA	< 1.8	1.8									
PFUnA	< 1.8	1.8									
11CI-PF3OUdS	< 1.8	1.8									
PFDoA	< 1.8	1.8									
PFTTrDA	< 1.8	1.8									
PFTA	< 1.8	1.8									
PFAS Hazard Index	< 0.20	0.20									
Surr: d5-N-EtFOSAA	310		320.0		97.4	70	130				
Surr: M3HFPO-DA	210		200.0		104	70	130				
Surr: MPFDA	81		80.00		102	70	130				
Surr: MPFHxA	80		80.00		99.8	70	130				

**Qualifiers:** \* Value exceeds Maximum Contaminant Level.  
MCL Maximum Contaminant Level

< Not Detected at the Reporting Limit  
PL Permit Limit

H Holding times for preparation or analysis exceeded  
RL Reporting Limit

WO#: 2501605

1/22/2025

**Client:** Trace Analytical Laboratories, Inc.

**Project:** 25A0340

**TestCode:** PFAS-DW

Sample ID: <b>LCS-high-7725 A</b>	SampType: <b>LCS-HIGH</b>	TestCode: <b>PFAS-DW</b>	Units: <b>ng/L</b>	Prep Date: <b>1/17/2025</b>	RunNo: <b>43098</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>7725</b>	TestNo: <b>EPA 537.1</b>		Analysis Date: <b>1/18/2025</b>	SeqNo: <b>863946</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
PFBS	180	1.8	200.0	0	91.6	70	130				
PFHxA	200	1.8	200.0	0	98.3	70	130				
HFPO-DA	200	1.8	200.0	0	99.4	70	130				
PFHxS	200	1.8	200.0	0	102	70	130				
PFHpA	200	1.8	200.0	0	101	70	130				
ADONA	200	1.8	200.0	0	100	70	130				
PFOA	200	1.8	200.0	0	102	70	130				
PFOS	200	1.8	200.0	0	100	70	130				
PFNA	210	1.8	200.0	0	103	70	130				
9CI-PF3ONS	200	1.8	200.0	0	101	70	130				
PFDA	200	1.8	200.0	0	102	70	130				
NMeFOSAA	200	1.8	200.0	0	98.5	70	130				
NEtFOSAA	200	1.8	200.0	0	101	70	130				
PFUnA	200	1.8	200.0	0	101	70	130				
11CI-PF3OUdS	200	1.8	200.0	0	99.6	70	130				
PFDoA	200	1.8	200.0	0	101	70	130				
PFTTrDA	230	1.8	200.0	0	116	70	130				
PFTA	200	1.8	200.0	0	99.8	70	130				
Surr: d5-N-EtFOSAA	310		320.0		97.2	70	130				
Surr: M3HFPO-DA	210		200.0		103	70	130				
Surr: MPFDA	82		80.00		102	70	130				
Surr: MPFHxA	78		80.00		97.8	70	130				

**Qualifiers:** \* Value exceeds Maximum Contaminant Level.  
MCL Maximum Contaminant Level

< Not Detected at the Reporting Limit  
PL Permit Limit

H Holding times for preparation or analysis exceeded  
RL Reporting Limit

# QC SUMMARY REPORT

WO#: 2501605

1/22/2025

**Client:** Trace Analytical Laboratories, Inc.

**Project:** 25A0340

**TestCode:** PFAS-DW

Sample ID: <b>MB-S7-7730</b>	SampType: <b>MBLK</b>	TestCode: <b>PFAS-DW</b>	Units: <b>ng/L</b>	Prep Date: <b>1/21/2025</b>	RunNo: <b>43129</b>						
Client ID: <b>PBW</b>	Batch ID: <b>7730</b>	TestNo: <b>EPA 537.1</b>		Analysis Date: <b>1/22/2025</b>	SeqNo: <b>864512</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
PFBS	< 1.8	1.8									
PFHxA	< 1.8	1.8									
HFPO-DA	< 1.8	1.8									
PFHxS	< 1.8	1.8									
PFHpA	< 1.8	1.8									
ADONA	< 1.8	1.8									
PFOA	< 1.8	1.8									
PFOS	< 1.8	1.8									
PFNA	< 1.8	1.8									
9CI-PF3ONS	< 1.8	1.8									
PFDA	< 1.8	1.8									
NMeFOSAA	< 1.8	1.8									
NEtFOSAA	< 1.8	1.8									
PFUnA	< 1.8	1.8									
11CI-PF3OUdS	< 1.8	1.8									
PFDoA	< 1.8	1.8									
PFTTrDA	< 1.8	1.8									
PFTA	< 1.8	1.8									
PFAS Hazard Index	< 0.20	0.20									
Surr: d5-N-EtFOSAA	290		320.0		89.8	70	130				
Surr: M3HFPO-DA	180		200.0		90.2	70	130				
Surr: MPFDA	75		80.00		93.5	70	130				
Surr: MPFHxA	70		80.00		87.2	70	130				

**Qualifiers:** \* Value exceeds Maximum Contaminant Level.  
MCL Maximum Contaminant Level

< Not Detected at the Reporting Limit  
PL Permit Limit

H Holding times for preparation or analysis exceeded  
RL Reporting Limit

Original  
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WO#: 2501605

1/22/2025

**Client:** Trace Analytical Laboratories, Inc.

**Project:** 25A0340

**TestCode:** PFAS-DW

Sample ID: <b>LCS-low-7730 A</b>	SampType: <b>LCS-LOW</b>	TestCode: <b>PFAS-DW</b>	Units: <b>ng/L</b>	Prep Date: <b>1/21/2025</b>	RunNo: <b>43129</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>7730</b>	TestNo: <b>EPA 537.1</b>	Analysis Date: <b>1/22/2025</b>	SeqNo: <b>864513</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
PFBS	3.0	1.8	4.000	0	74.9	50	150				
PFHxA	3.5	1.8	4.000	0	86.4	50	150				
HFPO-DA	4.0	1.8	4.000	0	99.5	50	150				
PFHxS	3.8	1.8	4.000	0	95.2	50	150				
PFHpA	3.7	1.8	4.000	0	92.8	50	150				
ADONA	3.6	1.8	4.000	0	89.6	50	150				
PFOA	3.8	1.8	4.000	0	94.2	50	150				
PFOS	4.1	1.8	4.000	0	103	50	150				
PFNA	3.8	1.8	4.000	0	94.0	50	150				
9CI-PF3ONS	3.6	1.8	4.000	0	90.2	50	150				
PFDA	3.8	1.8	4.000	0	94.8	50	150				
NMeFOSAA	3.8	1.8	4.000	0	94.2	50	150				
NEtFOSAA	3.9	1.8	4.000	0	97.3	50	150				
PfUnA	3.8	1.8	4.000	0	94.5	50	150				
11CI-PF3OUdS	3.6	1.8	4.000	0	89.7	50	150				
PFDoA	3.7	1.8	4.000	0	93.7	50	150				
PFTTrDA	3.7	1.8	4.000	0	93.1	50	150				
PFTA	3.8	1.8	4.000	0	95.9	50	150				
Surr: d5-N-EtFOSAA	310		320.0		95.7	70	130				
Surr: M3HFPO-DA	190		200.0		94.5	70	130				
Surr: MPFDA	80		80.00		100	70	130				
Surr: MPFHxA	73		80.00		91.1	70	130				

**Qualifiers:** \* Value exceeds Maximum Contaminant Level.  
MCL Maximum Contaminant Level

< Not Detected at the Reporting Limit  
PL Permit Limit

H Holding times for preparation or analysis exceeded  
RL Reporting Limit

**SUBCONTRACT ORDER**

**25A0340**

**SENDING LABORATORY:**

Trace Analytical Laboratories, Inc.  
2241 Black Creek Road  
Muskegon, MI 49444  
Phone: 231.773.5998

**RECEIVING LABORATORY:**

Prein and Newhof  
3260 Evergreen Drive NE  
Grand Rapids, MI 49525  
Phone : (616) 364-7600

1605-1

Project Manager: Tim Brewer

Note Our New Email address: [TraceSubOut@trace-labs.com](mailto:TraceSubOut@trace-labs.com)

**PO # 25A0340**

Matrix: Drinking Water | Sampled: 01/09/25 09:13 | TAT: Standard

Sample ID: Plant Tap 25A0340-01

WSSN: 1420

Sampled By: SDII

***Analysis Needed:***

**PFAS Drinking Water- EGLE List with Field Blank**

Released By: C.M. Date: 1.9.25 Received By: SD Date: 1/10/25 10:50 <sup>5<sup>°C</sup></sup>



**25A0340**

Clare, City of  
 Project Manager: Tim Brewer

**Sample Log In Checklist**

Date: 1-9-25	Original Observation	Corrected Temperature	IR-9 (CF: 0.0°C)	IR-10 (CF: -0.3°C)	IR-12 (CF: 0.0°C)	SR1 (CF: -0.4°C)	SR2 (CF: -0.4°C)	Temp Blank	Client Sample
Time: 1641									
Initials: CM									
Package Description: Cooler									
Package Temp °C	0.3	0.3							
Representative Sample Temp °C	1.9	1.5							

**Sample Receipt**

Yes No

Received on ice or other coolant

Ice still present upon receipt

Custody seals present

Trace Courier  Client Drop-off

Yes  No Custody seals intact (if applicable)

UPS  Fed Ex  US Mail  Other

**Sample Condition**

Yes No N/A

All sample containers arrived unbroken and labeled

Sufficient sample to run requested analyses

Correct chemical preservative added to samples

Samples preserved at Trace

Chemical preservation verified, check EMD pH test strip used (if applicable)

pH 0-2.5 (Lot: HC311850)  pH 11.0-13.0 (Lot: HC022540)  Other

Air bubbles absent from VOAs

**Chain of Custody (COC)**

Yes No

All bottle labels agree with COC

COC filled out properly

COC signed by client

**Notes:**

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