

September 15, 2025
2250185

Mr. Doug LaFave, Deputy City Manager
City of East Grand Rapids
750 Lakeside Drive SE
East Grand Rapids, MI 49506

RE: Reed Lake Sampling

Dear Mr. LaFave:

On August 28, 2025, Prein&Newhof collected three samples from Reeds Lake. The three samples included one collected from the surface water, one from close to the middle depth of the lake, and the third sample from near the bottom of the lake. The samples were analyzed for Dissolved Metals, Total Sodium, Chloride, and PFAS.

Please find attached the completed report for the test results. Note that the sample results were compared to EPA Part 201 limits. None of the results exceeded Part 201 Generic Residential Criteria.

Sincerely,

Prein&Newhof



Stephen M. Bylsma
Laboratory Manager

SMB/mvk

Enclosure(s): P&N Laboratory Analytical Report

cc: Scott Post, P.E., Prein&Newhof
Kevin Kieft, P.E. Prein&Newhof
Timothy Woodburne, CPG, Prein&Newhof

CLIENT:	Prein & Newhof	Collection Date:	8/28/2025 12:30:00 PM
Project:	Reeds Lake	Received Date:	8/28/2025 12:45:00 PM
Lab ID:	2508M78-01	Matrix:	SURFACE WATER
Client Sample ID:	Surface Water	Sampled By:	RR (P&N)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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PFAS, AQUEOUS

EPA 1633

EPA 1633

Analyst: JS

PFBA	< 8.5	8.5		ng/L	1	9/6/2025 1:55:00 AM
PFMPA	< 4.3	4.3		ng/L	1	9/6/2025 1:55:00 AM
3:3FTCA	< 8.5	8.5		ng/L	1	9/6/2025 1:55:00 AM
PFMBA	< 4.3	4.3		ng/L	1	9/6/2025 1:55:00 AM
PFPeA	< 4.3	4.3		ng/L	1	9/6/2025 1:55:00 AM
4:2FTS	< 8.5	8.5		ng/L	1	9/6/2025 1:55:00 AM
PFBS	5.9	2.1		ng/L	1	9/6/2025 1:55:00 AM
NFDHA	< 4.3	4.3		ng/L	1	9/6/2025 1:55:00 AM
PFHxA	3.7	2.1		ng/L	1	9/6/2025 1:55:00 AM
HFPO-DA	< 8.5	8.5		ng/L	1	9/6/2025 1:55:00 AM
PFEESA	< 4.3	4.3		ng/L	1	9/6/2025 1:55:00 AM
PFPeS	2.8	2.1		ng/L	1	9/6/2025 1:55:00 AM
PFHpA	< 2.1	2.1		ng/L	1	9/6/2025 1:55:00 AM
ADONA	< 4.3	4.3		ng/L	1	9/6/2025 1:55:00 AM
6:2FTS	< 8.5	8.5		ng/L	1	9/6/2025 1:55:00 AM
PFOA	5.6	2.1		ng/L	1	9/6/2025 1:55:00 AM
PFHxS	< 2.1	2.1		ng/L	1	9/6/2025 1:55:00 AM
5:3FTCA	< 110	110		ng/L	1	9/6/2025 1:55:00 AM
PFNA	< 2.1	2.1		ng/L	1	9/6/2025 1:55:00 AM
PFHpS	< 2.1	2.1		ng/L	1	9/6/2025 1:55:00 AM
8:2FTS	< 8.5	8.5		ng/L	1	9/6/2025 1:55:00 AM
PFOS	2.4	2.1		ng/L	1	9/6/2025 1:55:00 AM
PFDA	< 2.1	2.1		ng/L	1	9/6/2025 1:55:00 AM
9CI-PF3ONS	< 8.5	8.5		ng/L	1	9/6/2025 1:55:00 AM
PFUdA	< 2.1	2.1		ng/L	1	9/6/2025 1:55:00 AM
PFNS	< 2.1	2.1		ng/L	1	9/6/2025 1:55:00 AM
NMeFOSAA	< 2.1	2.1		ng/L	1	9/6/2025 1:55:00 AM
7:3FTCA	< 110	110		ng/L	1	9/6/2025 1:55:00 AM
NEtFOSAA	< 2.1	2.1		ng/L	1	9/6/2025 1:55:00 AM
PFDoA	< 2.1	2.1		ng/L	1	9/6/2025 1:55:00 AM
PFDS	< 2.1	2.1		ng/L	1	9/6/2025 1:55:00 AM
11CI-PF3OUdS	< 8.5	8.5		ng/L	1	9/6/2025 1:55:00 AM
PFTTrDA	< 2.1	2.1		ng/L	1	9/6/2025 1:55:00 AM
PFDoS	< 2.1	2.1		ng/L	1	9/6/2025 1:55:00 AM
PFTeDA	< 2.1	2.1		ng/L	1	9/6/2025 1:55:00 AM
FOSA	< 2.1	2.1		ng/L	1	9/6/2025 1:55:00 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 H Holding times for preparation or analysis exceeded
 PL Permit Limit
 S Spike Recovery outside accepted recovery limits

< Not Detected at the Reporting Limit
 MCL Maximum Contaminant Level
 RL Reporting Limit

Original

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CLIENT:	Prein & Newof	Collection Date:	8/28/2025 12:30:00 PM
Project:	Reeds Lake	Received Date:	8/28/2025 12:45:00 PM
Lab ID:	2508M78-01	Matrix:	SURFACE WATER
Client Sample ID:	Surface Water	Sampled By:	RR (P&N)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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PFAS, AQUEOUS

EPA 1633

EPA 1633

Analyst: JS

NMeFOSE	< 53	53		ng/L	1	9/6/2025 1:55:00 AM
NMeFOSA	< 2.1	2.1		ng/L	1	9/6/2025 1:55:00 AM
NEtFOSE	< 53	53		ng/L	1	9/6/2025 1:55:00 AM
NEtFOSA	< 2.1	2.1		ng/L	1	9/6/2025 1:55:00 AM
Surr: M4PFBA	116	5 - 130		%Rec	1	9/6/2025 1:55:00 AM
Surr: M5PFPeA	129	40 - 130		%Rec	1	9/6/2025 1:55:00 AM
Surr: M2-4:2FTS	257	40 - 200	S	%Rec	1	9/6/2025 1:55:00 AM
Surr: M3PFBS	111	40 - 135		%Rec	1	9/6/2025 1:55:00 AM
Surr: M5PFHxA	119	40 - 130		%Rec	1	9/6/2025 1:55:00 AM
Surr: M3HFPO-DA	118	40 - 130		%Rec	1	9/6/2025 1:55:00 AM
Surr: M4PFHpA	109	40 - 130		%Rec	1	9/6/2025 1:55:00 AM
Surr: M2-6:2FTS	170	40 - 200		%Rec	1	9/6/2025 1:55:00 AM
Surr: M8PFOA	108	40 - 130		%Rec	1	9/6/2025 1:55:00 AM
Surr: M3PFHxS	111	40 - 130		%Rec	1	9/6/2025 1:55:00 AM
Surr: M9PFNA	120	40 - 130		%Rec	1	9/6/2025 1:55:00 AM
Surr: M2-8:2FTS	126	40 - 300		%Rec	1	9/6/2025 1:55:00 AM
Surr: M6PFDA	104	40 - 130		%Rec	1	9/6/2025 1:55:00 AM
Surr: M8PFOS	94.9	40 - 130		%Rec	1	9/6/2025 1:55:00 AM
Surr: M7PFUdA	91.0	30 - 130		%Rec	1	9/6/2025 1:55:00 AM
Surr: d3-NMeFOSAA	114	40 - 170		%Rec	1	9/6/2025 1:55:00 AM
Surr: d5-N-EtFOSAA	109	25 - 135		%Rec	1	9/6/2025 1:55:00 AM
Surr: M2PFDoA	69.5	10 - 130		%Rec	1	9/6/2025 1:55:00 AM
Surr: M2PFTeDA	32.6	10 - 130		%Rec	1	9/6/2025 1:55:00 AM
Surr: M8FOSA	80.8	40 - 130		%Rec	1	9/6/2025 1:55:00 AM
Surr: d7-NMeFOSE	62.1	10 - 130		%Rec	1	9/6/2025 1:55:00 AM
Surr: d3-NMeFOSA	54.6	10 - 130		%Rec	1	9/6/2025 1:55:00 AM
Surr: d9-NEtFOSE	42.4	10 - 130		%Rec	1	9/6/2025 1:55:00 AM
Surr: d5-NEtFOSA	44.2	10 - 130		%Rec	1	9/6/2025 1:55:00 AM

MERCURY, DISSOLVED

EPA 245.1

Analyst: DV

Mercury	< 0.000200	0.000200		mg/L	1	9/3/2025 1:25:47 PM
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MINERALS, AQUEOUS

EPA 200.7

Analyst: AS

Sodium	102	2.00		mg/L	1	9/5/2025 1:30:49 PM
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Qualifiers:

* Value exceeds Maximum Contaminant Level.
 H Holding times for preparation or analysis exceeded
 PL Permit Limit
 S Spike Recovery outside accepted recovery limits

< Not Detected at the Reporting Limit
 MCL Maximum Contaminant Level
 RL Reporting Limit

Original

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CLIENT:	Prein & Newof	Collection Date:	8/28/2025 12:30:00 PM
Project:	Reeds Lake	Received Date:	8/28/2025 12:45:00 PM
Lab ID:	2508M78-01	Matrix:	SURFACE WATER
Client Sample ID:	Surface Water	Sampled By:	RR (P&N)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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METALS, DISSOLVED

EPA 200.8

Analyst: **SB**

Arsenic	0.00167	0.00100		mg/L	1	8/30/2025 12:56:19 AM
Barium	0.0298	0.00100		mg/L	1	8/30/2025 12:56:19 AM
Cadmium	< 0.000200	0.000200		mg/L	1	8/30/2025 12:56:19 AM
Chromium	0.00127	0.00100		mg/L	1	8/30/2025 12:56:19 AM
Copper	0.00447	0.00100		mg/L	1	8/30/2025 12:56:19 AM
Lead	< 0.00100	0.00100		mg/L	1	8/30/2025 12:56:19 AM
Selenium	< 0.00200	0.00200		mg/L	1	8/30/2025 12:56:19 AM
Silver	< 0.000200	0.000200		mg/L	1	8/30/2025 12:56:19 AM
Zinc	0.00660	0.00300		mg/L	1	8/30/2025 12:56:19 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

Analyst: **AB**

Chloride	181	0.200		mg/L	1	8/29/2025 10:42:00 PM
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Qualifiers:

- | | |
|--|---|
| <ul style="list-style-type: none"> * Value exceeds Maximum Contaminant Level. H Holding times for preparation or analysis exceeded PL Permit Limit S Spike Recovery outside accepted recovery limits | <ul style="list-style-type: none"> < Not Detected at the Reporting Limit MCL Maximum Contaminant Level RL Reporting Limit |
|--|---|

CLIENT:	Prein & Newhof	Collection Date:	8/28/2025 12:40:00 PM
Project:	Reeds Lake	Received Date:	8/28/2025 12:45:00 PM
Lab ID:	2508M78-02	Matrix:	SURFACE WATER
Client Sample ID:	Middle Depth	Sampled By:	RR (P&N)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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PFAS, AQUEOUS

EPA 1633

EPA 1633

Analyst: JS

PFBA	< 8.5	8.5		ng/L	1	9/6/2025 2:13:00 AM
PFMPA	< 4.3	4.3		ng/L	1	9/6/2025 2:13:00 AM
3:3FTCA	< 8.5	8.5		ng/L	1	9/6/2025 2:13:00 AM
PFMBA	< 4.3	4.3		ng/L	1	9/6/2025 2:13:00 AM
PFPeA	< 4.3	4.3		ng/L	1	9/6/2025 2:13:00 AM
4:2FTS	< 8.5	8.5		ng/L	1	9/6/2025 2:13:00 AM
PFBS	6.7	2.1		ng/L	1	9/6/2025 2:13:00 AM
NFDHA	< 4.3	4.3		ng/L	1	9/6/2025 2:13:00 AM
PFHxA	3.8	2.1		ng/L	1	9/6/2025 2:13:00 AM
HFPO-DA	< 8.5	8.5		ng/L	1	9/6/2025 2:13:00 AM
PFEESA	< 4.3	4.3		ng/L	1	9/6/2025 2:13:00 AM
PFPeS	< 2.1	2.1		ng/L	1	9/6/2025 2:13:00 AM
PFHpA	< 2.1	2.1		ng/L	1	9/6/2025 2:13:00 AM
ADONA	< 4.3	4.3		ng/L	1	9/6/2025 2:13:00 AM
6:2FTS	< 8.5	8.5		ng/L	1	9/6/2025 2:13:00 AM
PFOA	4.8	2.1		ng/L	1	9/6/2025 2:13:00 AM
PFHxS	< 2.1	2.1		ng/L	1	9/6/2025 2:13:00 AM
5:3FTCA	< 110	110		ng/L	1	9/6/2025 2:13:00 AM
PFNA	< 2.1	2.1		ng/L	1	9/6/2025 2:13:00 AM
PFHpS	< 2.1	2.1		ng/L	1	9/6/2025 2:13:00 AM
8:2FTS	< 8.5	8.5		ng/L	1	9/6/2025 2:13:00 AM
PFOS	2.6	2.1		ng/L	1	9/6/2025 2:13:00 AM
PFDA	< 2.1	2.1		ng/L	1	9/6/2025 2:13:00 AM
9CI-PF3ONS	< 8.5	8.5		ng/L	1	9/6/2025 2:13:00 AM
PFUdA	< 2.1	2.1		ng/L	1	9/6/2025 2:13:00 AM
PFNS	< 2.1	2.1		ng/L	1	9/6/2025 2:13:00 AM
NMeFOSAA	< 2.1	2.1		ng/L	1	9/6/2025 2:13:00 AM
7:3FTCA	< 110	110		ng/L	1	9/6/2025 2:13:00 AM
NEtFOSAA	< 2.1	2.1		ng/L	1	9/6/2025 2:13:00 AM
PFDoA	< 2.1	2.1		ng/L	1	9/6/2025 2:13:00 AM
PFDS	< 2.1	2.1		ng/L	1	9/6/2025 2:13:00 AM
11CI-PF3OUdS	< 8.5	8.5		ng/L	1	9/6/2025 2:13:00 AM
PFTTrDA	< 2.1	2.1		ng/L	1	9/6/2025 2:13:00 AM
PFDoS	< 2.1	2.1		ng/L	1	9/6/2025 2:13:00 AM
PFTeDA	< 2.1	2.1		ng/L	1	9/6/2025 2:13:00 AM
FOSA	< 2.1	2.1		ng/L	1	9/6/2025 2:13:00 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 H Holding times for preparation or analysis exceeded
 PL Permit Limit
 S Spike Recovery outside accepted recovery limits

< Not Detected at the Reporting Limit
 MCL Maximum Contaminant Level
 RL Reporting Limit

Original

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CLIENT:	Prein & Newof	Collection Date:	8/28/2025 12:40:00 PM
Project:	Reeds Lake	Received Date:	8/28/2025 12:45:00 PM
Lab ID:	2508M78-02	Matrix:	SURFACE WATER
Client Sample ID:	Middle Depth	Sampled By:	RR (P&N)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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PFAS, AQUEOUS

EPA 1633

EPA 1633

Analyst: **JS**

NMeFOSE	< 53	53		ng/L	1	9/6/2025 2:13:00 AM
NMeFOSA	< 2.1	2.1		ng/L	1	9/6/2025 2:13:00 AM
NEtFOSE	< 53	53		ng/L	1	9/6/2025 2:13:00 AM
NEtFOSA	< 2.1	2.1		ng/L	1	9/6/2025 2:13:00 AM
Surr: M4PFBA	115	5 - 130		%Rec	1	9/6/2025 2:13:00 AM
Surr: M5PFPeA	132	40 - 130	S	%Rec	1	9/6/2025 2:13:00 AM
Surr: M2-4:2FTS	252	40 - 200	S	%Rec	1	9/6/2025 2:13:00 AM
Surr: M3PFBS	113	40 - 135		%Rec	1	9/6/2025 2:13:00 AM
Surr: M5PFHxA	118	40 - 130		%Rec	1	9/6/2025 2:13:00 AM
Surr: M3HFPO-DA	117	40 - 130		%Rec	1	9/6/2025 2:13:00 AM
Surr: M4PFHpA	106	40 - 130		%Rec	1	9/6/2025 2:13:00 AM
Surr: M2-6:2FTS	156	40 - 200		%Rec	1	9/6/2025 2:13:00 AM
Surr: M8PFOA	106	40 - 130		%Rec	1	9/6/2025 2:13:00 AM
Surr: M3PFHxS	108	40 - 130		%Rec	1	9/6/2025 2:13:00 AM
Surr: M9PFNA	104	40 - 130		%Rec	1	9/6/2025 2:13:00 AM
Surr: M2-8:2FTS	113	40 - 300		%Rec	1	9/6/2025 2:13:00 AM
Surr: M6PFDA	87.5	40 - 130		%Rec	1	9/6/2025 2:13:00 AM
Surr: M8PFOS	91.8	40 - 130		%Rec	1	9/6/2025 2:13:00 AM
Surr: M7PFUdA	78.9	30 - 130		%Rec	1	9/6/2025 2:13:00 AM
Surr: d3-NMeFOSAA	96.4	40 - 170		%Rec	1	9/6/2025 2:13:00 AM
Surr: d5-N-EtFOSAA	91.2	25 - 135		%Rec	1	9/6/2025 2:13:00 AM
Surr: M2PFDoA	67.7	10 - 130		%Rec	1	9/6/2025 2:13:00 AM
Surr: M2PFTeDA	40.6	10 - 130		%Rec	1	9/6/2025 2:13:00 AM
Surr: M8FOSA	76.0	40 - 130		%Rec	1	9/6/2025 2:13:00 AM
Surr: d7-NMeFOSE	68.0	10 - 130		%Rec	1	9/6/2025 2:13:00 AM
Surr: d3-NMeFOSA	54.2	10 - 130		%Rec	1	9/6/2025 2:13:00 AM
Surr: d9-NEtFOSE	56.5	10 - 130		%Rec	1	9/6/2025 2:13:00 AM
Surr: d5-NEtFOSA	47.2	10 - 130		%Rec	1	9/6/2025 2:13:00 AM

MERCURY, DISSOLVED

EPA 245.1

Analyst: **DV**

Mercury	< 0.000200	0.000200		mg/L	1	9/3/2025 1:25:47 PM
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MINERALS, AQUEOUS

EPA 200.7

Analyst: **AS**

Sodium	101	2.00		mg/L	1	9/5/2025 1:33:55 PM
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Qualifiers:

* Value exceeds Maximum Contaminant Level.
H Holding times for preparation or analysis exceeded
PL Permit Limit
S Spike Recovery outside accepted recovery limits

< Not Detected at the Reporting Limit
MCL Maximum Contaminant Level
RL Reporting Limit

Original

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CLIENT:	Prein & Newof	Collection Date:	8/28/2025 12:40:00 PM
Project:	Reeds Lake	Received Date:	8/28/2025 12:45:00 PM
Lab ID:	2508M78-02	Matrix:	SURFACE WATER
Client Sample ID:	Middle Depth	Sampled By:	RR (P&N)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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METALS, DISSOLVED

EPA 200.8

Analyst: **SB**

Arsenic	0.00162	0.00100		mg/L	1	8/30/2025 1:01:50 AM
Barium	0.0306	0.00100		mg/L	1	8/30/2025 1:01:50 AM
Cadmium	< 0.000200	0.000200		mg/L	1	8/30/2025 1:01:50 AM
Chromium	0.00127	0.00100		mg/L	1	8/30/2025 1:01:50 AM
Copper	0.00456	0.00100		mg/L	1	8/30/2025 1:01:50 AM
Lead	< 0.00100	0.00100		mg/L	1	8/30/2025 1:01:50 AM
Selenium	< 0.00200	0.00200		mg/L	1	8/30/2025 1:01:50 AM
Silver	< 0.000200	0.000200		mg/L	1	8/30/2025 1:01:50 AM
Zinc	0.00401	0.00300		mg/L	1	8/30/2025 1:01:50 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

Analyst: **AB**

Chloride	180	0.200		mg/L	1	8/29/2025 11:00:00 PM
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Qualifiers:

* Value exceeds Maximum Contaminant Level.
 H Holding times for preparation or analysis exceeded
 PL Permit Limit
 S Spike Recovery outside accepted recovery limits

< Not Detected at the Reporting Limit
 MCL Maximum Contaminant Level
 RL Reporting Limit

CLIENT:	Prein & Newhof	Collection Date:	8/28/2025 12:20:00 PM
Project:	Reeds Lake	Received Date:	8/28/2025 12:45:00 PM
Lab ID:	2508M78-03	Matrix:	SURFACE WATER
Client Sample ID:	Near Bottom Depth	Sampled By:	RR (P&N)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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PFAS, AQUEOUS

EPA 1633

EPA 1633

Analyst: JS

PFBA	< 8.7	8.7		ng/L	1	9/6/2025 2:30:00 AM
PFMPA	< 4.3	4.3		ng/L	1	9/6/2025 2:30:00 AM
3:3FTCA	< 8.7	8.7		ng/L	1	9/6/2025 2:30:00 AM
PFMBA	< 4.3	4.3		ng/L	1	9/6/2025 2:30:00 AM
PFPeA	< 4.3	4.3		ng/L	1	9/6/2025 2:30:00 AM
4:2FTS	< 8.7	8.7		ng/L	1	9/6/2025 2:30:00 AM
PFBS	6.1	2.2		ng/L	1	9/6/2025 2:30:00 AM
NFDHA	< 4.3	4.3		ng/L	1	9/6/2025 2:30:00 AM
PFHxA	3.7	2.2		ng/L	1	9/6/2025 2:30:00 AM
HFPO-DA	< 8.7	8.7		ng/L	1	9/6/2025 2:30:00 AM
PFEESA	< 4.3	4.3		ng/L	1	9/6/2025 2:30:00 AM
PFPeS	< 2.2	2.2		ng/L	1	9/6/2025 2:30:00 AM
PFHpA	< 2.2	2.2		ng/L	1	9/6/2025 2:30:00 AM
ADONA	< 4.3	4.3		ng/L	1	9/6/2025 2:30:00 AM
6:2FTS	< 8.7	8.7		ng/L	1	9/6/2025 2:30:00 AM
PFOA	5.2	2.2		ng/L	1	9/6/2025 2:30:00 AM
PFHxS	< 2.2	2.2		ng/L	1	9/6/2025 2:30:00 AM
5:3FTCA	< 110	110		ng/L	1	9/6/2025 2:30:00 AM
PFNA	< 2.2	2.2		ng/L	1	9/6/2025 2:30:00 AM
PFHpS	< 2.2	2.2		ng/L	1	9/6/2025 2:30:00 AM
8:2FTS	< 8.7	8.7		ng/L	1	9/6/2025 2:30:00 AM
PFOS	2.5	2.2		ng/L	1	9/6/2025 2:30:00 AM
PFDA	< 2.2	2.2		ng/L	1	9/6/2025 2:30:00 AM
9CI-PF3ONS	< 8.7	8.7		ng/L	1	9/6/2025 2:30:00 AM
PFUdA	< 2.2	2.2		ng/L	1	9/6/2025 2:30:00 AM
PFNS	< 2.2	2.2		ng/L	1	9/6/2025 2:30:00 AM
NMeFOSAA	< 2.2	2.2		ng/L	1	9/6/2025 2:30:00 AM
7:3FTCA	< 110	110		ng/L	1	9/6/2025 2:30:00 AM
NEtFOSAA	< 2.2	2.2		ng/L	1	9/6/2025 2:30:00 AM
PFDoA	< 2.2	2.2		ng/L	1	9/6/2025 2:30:00 AM
PFDS	< 2.2	2.2		ng/L	1	9/6/2025 2:30:00 AM
11CI-PF3OUdS	< 8.7	8.7		ng/L	1	9/6/2025 2:30:00 AM
PFTTrDA	< 2.2	2.2		ng/L	1	9/6/2025 2:30:00 AM
PFDoS	< 2.2	2.2		ng/L	1	9/6/2025 2:30:00 AM
PFTeDA	< 2.2	2.2		ng/L	1	9/6/2025 2:30:00 AM
FOSA	< 2.2	2.2		ng/L	1	9/6/2025 2:30:00 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 H Holding times for preparation or analysis exceeded
 PL Permit Limit
 S Spike Recovery outside accepted recovery limits

< Not Detected at the Reporting Limit
 MCL Maximum Contaminant Level
 RL Reporting Limit

Original

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CLIENT:	Prein & Newhof	Collection Date:	8/28/2025 12:20:00 PM
Project:	Reeds Lake	Received Date:	8/28/2025 12:45:00 PM
Lab ID:	2508M78-03	Matrix:	SURFACE WATER
Client Sample ID:	Near Bottom Depth	Sampled By:	RR (P&N)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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PFAS, AQUEOUS

EPA 1633

EPA 1633

Analyst: **JS**

NMeFOSE	< 54	54		ng/L	1	9/6/2025 2:30:00 AM
NMeFOSA	< 2.2	2.2		ng/L	1	9/6/2025 2:30:00 AM
NEtFOSE	< 54	54		ng/L	1	9/6/2025 2:30:00 AM
NEtFOSA	< 2.2	2.2		ng/L	1	9/6/2025 2:30:00 AM
Surr: M4PFBA	115	5 - 130		%Rec	1	9/6/2025 2:30:00 AM
Surr: M5PFPeA	133	40 - 130	S	%Rec	1	9/6/2025 2:30:00 AM
Surr: M2-4:2FTS	238	40 - 200	S	%Rec	1	9/6/2025 2:30:00 AM
Surr: M3PFBS	116	40 - 135		%Rec	1	9/6/2025 2:30:00 AM
Surr: M5PFHxA	121	40 - 130		%Rec	1	9/6/2025 2:30:00 AM
Surr: M3HFPO-DA	120	40 - 130		%Rec	1	9/6/2025 2:30:00 AM
Surr: M4PFHpA	111	40 - 130		%Rec	1	9/6/2025 2:30:00 AM
Surr: M2-6:2FTS	155	40 - 200		%Rec	1	9/6/2025 2:30:00 AM
Surr: M8PFOA	106	40 - 130		%Rec	1	9/6/2025 2:30:00 AM
Surr: M3PFHxS	108	40 - 130		%Rec	1	9/6/2025 2:30:00 AM
Surr: M9PFNA	112	40 - 130		%Rec	1	9/6/2025 2:30:00 AM
Surr: M2-8:2FTS	125	40 - 300		%Rec	1	9/6/2025 2:30:00 AM
Surr: M6PFDA	106	40 - 130		%Rec	1	9/6/2025 2:30:00 AM
Surr: M8PFOS	87.1	40 - 130		%Rec	1	9/6/2025 2:30:00 AM
Surr: M7PFUdA	83.3	30 - 130		%Rec	1	9/6/2025 2:30:00 AM
Surr: d3-NMeFOSAA	102	40 - 170		%Rec	1	9/6/2025 2:30:00 AM
Surr: d5-N-EtFOSAA	90.3	25 - 135		%Rec	1	9/6/2025 2:30:00 AM
Surr: M2PFDoA	61.3	10 - 130		%Rec	1	9/6/2025 2:30:00 AM
Surr: M2PFTeDA	25.0	10 - 130		%Rec	1	9/6/2025 2:30:00 AM
Surr: M8FOSA	81.2	40 - 130		%Rec	1	9/6/2025 2:30:00 AM
Surr: d7-NMeFOSE	46.9	10 - 130		%Rec	1	9/6/2025 2:30:00 AM
Surr: d3-NMeFOSA	47.7	10 - 130		%Rec	1	9/6/2025 2:30:00 AM
Surr: d9-NEtFOSE	30.9	10 - 130		%Rec	1	9/6/2025 2:30:00 AM
Surr: d5-NEtFOSA	39.6	10 - 130		%Rec	1	9/6/2025 2:30:00 AM

MERCURY, DISSOLVED

EPA 245.1

Analyst: **DV**

Mercury	< 0.000200	0.000200		mg/L	1	9/3/2025 1:25:47 PM
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MINERALS, AQUEOUS

EPA 200.7

Analyst: **AS**

Sodium	101	2.00		mg/L	1	9/5/2025 1:35:28 PM
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Qualifiers:

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 H Holding times for preparation or analysis exceeded
 PL Permit Limit
 S Spike Recovery outside accepted recovery limits

< Not Detected at the Reporting Limit
 MCL Maximum Contaminant Level
 RL Reporting Limit

Original

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CLIENT:	Prein & Newof	Collection Date:	8/28/2025 12:20:00 PM
Project:	Reeds Lake	Received Date:	8/28/2025 12:45:00 PM
Lab ID:	2508M78-03	Matrix:	SURFACE WATER
Client Sample ID:	Near Bottom Depth	Sampled By:	RR (P&N)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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METALS, DISSOLVED

EPA 200.8

Analyst: **SB**

Arsenic	0.00143	0.00100		mg/L	1	8/30/2025 1:07:20 AM
Barium	0.0306	0.00100		mg/L	1	8/30/2025 1:07:20 AM
Cadmium	< 0.000200	0.000200		mg/L	1	8/30/2025 1:07:20 AM
Chromium	0.00130	0.00100		mg/L	1	8/30/2025 1:07:20 AM
Copper	0.00418	0.00100		mg/L	1	8/30/2025 1:07:20 AM
Lead	< 0.00100	0.00100		mg/L	1	8/30/2025 1:07:20 AM
Selenium	< 0.00200	0.00200		mg/L	1	8/30/2025 1:07:20 AM
Silver	< 0.000200	0.000200		mg/L	1	8/30/2025 1:07:20 AM
Zinc	< 0.00300	0.00300		mg/L	1	8/30/2025 1:07:20 AM

ANIONS BY ION CHROMATOGRAPHY

EPA 300.0

Analyst: **AB**

Chloride	182	0.200		mg/L	1	8/29/2025 11:17:00 PM
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Qualifiers:

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 H Holding times for preparation or analysis exceeded
 PL Permit Limit
 S Spike Recovery outside accepted recovery limits

< Not Detected at the Reporting Limit
 MCL Maximum Contaminant Level
 RL Reporting Limit

Original

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CLIENT:	Prein & Newhof	Collection Date:	8/28/2025 12:20:00 PM
Project:	Reeds Lake	Received Date:	8/28/2025 12:45:00 PM
Lab ID:	2508M78-04	Matrix:	BLANK
Client Sample ID:	PFAS Field Blank	Sampled By:	RR (P&N)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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PFAS, AQUEOUS

EPA 1633

EPA 1633

Analyst: JS

PFBA	< 8.3	8.3		ng/L	1	9/5/2025 9:13:00 PM
PFMPA	< 4.2	4.2		ng/L	1	9/5/2025 9:13:00 PM
3:3FTCA	< 8.3	8.3		ng/L	1	9/5/2025 9:13:00 PM
PFMBA	< 4.2	4.2		ng/L	1	9/5/2025 9:13:00 PM
PFPeA	< 4.2	4.2		ng/L	1	9/5/2025 9:13:00 PM
4:2FTS	< 8.3	8.3		ng/L	1	9/5/2025 9:13:00 PM
PFBS	< 2.1	2.1		ng/L	1	9/5/2025 9:13:00 PM
NFDHA	< 4.2	4.2		ng/L	1	9/5/2025 9:13:00 PM
PFHxA	< 2.1	2.1		ng/L	1	9/5/2025 9:13:00 PM
HFPO-DA	< 8.3	8.3		ng/L	1	9/5/2025 9:13:00 PM
PFEESA	< 4.2	4.2		ng/L	1	9/5/2025 9:13:00 PM
PFPeS	< 2.1	2.1		ng/L	1	9/5/2025 9:13:00 PM
PFHpA	< 2.1	2.1		ng/L	1	9/5/2025 9:13:00 PM
ADONA	< 4.2	4.2		ng/L	1	9/5/2025 9:13:00 PM
6:2FTS	< 8.3	8.3		ng/L	1	9/5/2025 9:13:00 PM
PFOA	< 2.1	2.1		ng/L	1	9/5/2025 9:13:00 PM
PFHxS	< 2.1	2.1		ng/L	1	9/5/2025 9:13:00 PM
5:3FTCA	< 100	100		ng/L	1	9/5/2025 9:13:00 PM
PFNA	< 2.1	2.1		ng/L	1	9/5/2025 9:13:00 PM
PFHpS	< 2.1	2.1		ng/L	1	9/5/2025 9:13:00 PM
8:2FTS	< 8.3	8.3		ng/L	1	9/5/2025 9:13:00 PM
PFOS	< 2.1	2.1		ng/L	1	9/5/2025 9:13:00 PM
PFDA	< 2.1	2.1		ng/L	1	9/5/2025 9:13:00 PM
9CI-PF3ONS	< 8.3	8.3		ng/L	1	9/5/2025 9:13:00 PM
PFUdA	< 2.1	2.1		ng/L	1	9/5/2025 9:13:00 PM
PFNS	< 2.1	2.1		ng/L	1	9/5/2025 9:13:00 PM
NMeFOSAA	< 2.1	2.1		ng/L	1	9/5/2025 9:13:00 PM
7:3FTCA	< 100	100		ng/L	1	9/5/2025 9:13:00 PM
NEtFOSAA	< 2.1	2.1		ng/L	1	9/5/2025 9:13:00 PM
PFDoA	< 2.1	2.1		ng/L	1	9/5/2025 9:13:00 PM
PFDS	< 2.1	2.1		ng/L	1	9/5/2025 9:13:00 PM
11CI-PF3OUdS	< 8.3	8.3		ng/L	1	9/5/2025 9:13:00 PM
PFTTrDA	< 2.1	2.1		ng/L	1	9/5/2025 9:13:00 PM
PFDoS	< 2.1	2.1		ng/L	1	9/5/2025 9:13:00 PM
PFTeDA	< 2.1	2.1		ng/L	1	9/5/2025 9:13:00 PM
FOSA	< 2.1	2.1		ng/L	1	9/5/2025 9:13:00 PM

Qualifiers:

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 H Holding times for preparation or analysis exceeded
 PL Permit Limit
 S Spike Recovery outside accepted recovery limits

< Not Detected at the Reporting Limit
 MCL Maximum Contaminant Level
 RL Reporting Limit

Original

CLIENT:	Prein & Newof	Collection Date:	8/28/2025 12:20:00 PM
Project:	Reeds Lake	Received Date:	8/28/2025 12:45:00 PM
Lab ID:	2508M78-04	Matrix:	BLANK
Client Sample ID:	PFAS Field Blank	Sampled By:	RR (P&N)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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PFAS, AQUEOUS

EPA 1633

EPA 1633

Analyst: JS

NMeFOSE	< 52	52		ng/L	1	9/5/2025 9:13:00 PM
NMeFOSA	< 2.1	2.1		ng/L	1	9/5/2025 9:13:00 PM
NEtFOSE	< 52	52		ng/L	1	9/5/2025 9:13:00 PM
NEtFOSA	< 2.1	2.1		ng/L	1	9/5/2025 9:13:00 PM
Surr: M4PFBA	113	5 - 130		%Rec	1	9/5/2025 9:13:00 PM
Surr: M5PFPeA	123	40 - 130		%Rec	1	9/5/2025 9:13:00 PM
Surr: M2-4:2FTS	154	40 - 200		%Rec	1	9/5/2025 9:13:00 PM
Surr: M3PFBS	108	40 - 135		%Rec	1	9/5/2025 9:13:00 PM
Surr: M5PFHxA	118	40 - 130		%Rec	1	9/5/2025 9:13:00 PM
Surr: M3HFPO-DA	117	40 - 130		%Rec	1	9/5/2025 9:13:00 PM
Surr: M4PFHpA	106	40 - 130		%Rec	1	9/5/2025 9:13:00 PM
Surr: M2-6:2FTS	143	40 - 200		%Rec	1	9/5/2025 9:13:00 PM
Surr: M8PFOA	103	40 - 130		%Rec	1	9/5/2025 9:13:00 PM
Surr: M3PFHxS	103	40 - 130		%Rec	1	9/5/2025 9:13:00 PM
Surr: M9PFNA	110	40 - 130		%Rec	1	9/5/2025 9:13:00 PM
Surr: M2-8:2FTS	125	40 - 300		%Rec	1	9/5/2025 9:13:00 PM
Surr: M6PFDA	103	40 - 130		%Rec	1	9/5/2025 9:13:00 PM
Surr: M8PFOS	87.4	40 - 130		%Rec	1	9/5/2025 9:13:00 PM
Surr: M7PFUdA	92.2	30 - 130		%Rec	1	9/5/2025 9:13:00 PM
Surr: d3-NMeFOSAA	99.3	40 - 170		%Rec	1	9/5/2025 9:13:00 PM
Surr: d5-N-EtFOSAA	93.8	25 - 135		%Rec	1	9/5/2025 9:13:00 PM
Surr: M2PFDoA	77.3	10 - 130		%Rec	1	9/5/2025 9:13:00 PM
Surr: M2PFTeDA	54.2	10 - 130		%Rec	1	9/5/2025 9:13:00 PM
Surr: M8FOSA	65.5	40 - 130		%Rec	1	9/5/2025 9:13:00 PM
Surr: d7-NMeFOSE	56.8	10 - 130		%Rec	1	9/5/2025 9:13:00 PM
Surr: d3-NMeFOSA	47.4	10 - 130		%Rec	1	9/5/2025 9:13:00 PM
Surr: d9-NEtFOSE	49.9	10 - 130		%Rec	1	9/5/2025 9:13:00 PM
Surr: d5-NEtFOSA	37.0	10 - 130		%Rec	1	9/5/2025 9:13:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.
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