

March 18, 2024

Mark Pauli Wisconsin Dept of Natural Res - Madison 107 Sutliff Ave Rhinelander, WI 54501

Project: David Grandt - 3304 County Hwy C

Project Number: 2024 0.5 Expanded Zone (Starks-Stella)

Work Order: CC02308 Received: 03/05/24

Enclosed are the results of analyses for samples received by our laboratory on 3/5/2024. If you have any questions concerning this report, please feel free to contact a client service representative at clientservices@nlslab.com.

Sincerely,

Steven M. Hefter For Client Services

Northern Lake Service, Inc.

Storn Hot



Reported:

Work Order:

Wisconsin Dept of Natural Res - Madison Project: David Grandt - 3304 County Hwy C

107 Sutliff Ave Project Number: 2024 0.5 Expanded Zone (Starks-Stella)

Rhinelander, WI 54501 Project Manager: Mark Pauli 3/18/24 11:40 CC02308

Sample Summary

Descriptions of all qualifiers listed throughout this report can be found on the Qualifiers and Definitions Page.

Lab ID	Sample	Matrix	Sample Type	Qualifiers	Date Sampled	Date Received
CC02308-01	Kitchen Sink	DW			3/5/24 12:45	3/5/24 13:13
CC02308-02	Field Blank	DW			3/5/24 12:45	3/5/24 13:13

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Wisconsin Dept of Natural Res - Madison Project: David Grandt - 3304 County Hwy C

107 Sutliff Ave Project Number: 2024 0.5 Expanded Zone (Starks-Stella)

Rhinelander, WI 54501 Project Manager: Mark Pauli 3/18/24 11:40 CC02308

Sample Results

Sample: Kitchen Sink CC02308-01 (DW) Sampled: 03/05/24 12:45 Analyte Result Qualifier LOD LOQ MCL Units Date Prepared Date Analyzed A

Analyte	Result	Qualifier	LOD	LOQ	MCL	Units	Date Prepared	Date Analyzed	Analyst	Method	Lab Cert Code
Semi-Volatiles											
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.31	1.0		ng/L	3/11/24 6:21	3/11/24 18:00	RAW	EPA 537.1, Rev 2.0	2
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.48	1.6		ng/L	3/11/24 6:21	3/11/24 18:00	RAW	EPA 537.1, Rev 2.0	2
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.42	1.4		ng/L	3/11/24 6:21	3/11/24 18:00	RAW	EPA 537.1, Rev 2.0	2
hexafluoropropylene oxide dimer acid (HFPO DA)	ND		0.95	3.1		ng/L	3/11/24 6:21	3/11/24 18:00	RAW	EPA 537.1, Rev 2.0	2
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.66	2.2		ng/L	3/11/24 6:21	3/11/24 18:00	RAW	EPA 537.1, Rev 2.0	2
n-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.66	2.2		ng/L	3/11/24 6:21	3/11/24 18:00	RAW	EPA 537.1, Rev 2.0	2
perfluorobutanesulfonic acid (PFBS)	ND		0.74	2.5		ng/L	3/11/24 6:21	3/11/24 18:00	RAW	EPA 537.1, Rev 2.0	2
perfluorodecanoic acid (PFDA)	ND		0.55	1.9		ng/L	3/11/24 6:21	3/11/24 18:00	RAW	EPA 537.1, Rev 2.0	2
perfluorododecanoic acid (PFDoA)	ND		0.64	2.1		ng/L	3/11/24 6:21	3/11/24 18:00	RAW	EPA 537.1, Rev 2.0	2
perfluoroheptanoic acid (PFHpA)	53		0.55	1.9		ng/L	3/11/24 6:21	3/11/24 18:00	RAW	EPA 537.1, Rev 2.0	2
perfluorohexanoic acid (PFHxA)	74		0.51	1.7		ng/L	3/11/24 6:21	3/11/24 18:00	RAW	EPA 537.1, Rev 2.0	2
perfluorohexanesulfonic acid (PFHxS)	0.84	J	0.65	2.2		ng/L	3/11/24 6:21	3/11/24 18:00	RAW	EPA 537.1, Rev 2.0	2
perfluorononanoic acid (PFNA)	0.55	J	0.53	1.8		ng/L	3/11/24 6:21	3/11/24 18:00	RAW	EPA 537.1, Rev 2.0	2
perfluorooctanoic acid (PFOA)	78		0.48	1.6		ng/L	3/11/24 6:21	3/11/24 18:00	RAW	EPA 537.1, Rev 2.0	2
perfluorooctanesulfonic acid (PFOS)	2.4		0.49	1.7		ng/L	3/11/24 6:21	3/11/24 18:00	RAW	EPA 537.1, Rev 2.0	2
perfluorotetradecanoic acid (PFTA)	ND		0.55	1.9		ng/L	3/11/24 6:21	3/11/24 18:00	RAW	EPA 537.1, Rev 2.0	2
perfluorotridecanoic acid (PFTrDA)	ND		0.55	1.9		ng/L	3/11/24 6:21	3/11/24 18:00	RAW	EPA 537.1, Rev 2.0	2
perfluoroundecanoic acid (PFUnA)	ND		0.53	1.8		ng/L	3/11/24 6:21	3/11/24 18:00	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFHxA	95%		Limits:	70-130%			3/11/24 6:21	3/11/24 18:00	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-HFPODA	91%		Limits:	70-130%			3/11/24 6:21	3/11/24 18:00	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFDA	93%		Limits:	70-130%			3/11/24 6:21	3/11/24 18:00	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) d5-NEtFOSAA	89%		Limits:	70-130%			3/11/24 6:21	3/11/24 18:00	RAW	EPA 537.1, Rev 2.0	2

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Rhinelander, WI 54501 Project Manager: Mark Pauli 3/18/24 11:40 CC02308

Sample: Field Blank

CC02308-02 (DW) Sampled: 03/05/24 12:45

CC02308-02 (DW) Sampled: 0 Analyte		0 1:0	100	100	MCI	11.7	D. I. D I	5.4.1.1		Mallant	Lab Cart Cada
<u>'</u>	Result	Qualifier	LOD	LOQ	MCL	Units	Date Prepared	Date Analyzed	Analyst	Method	Lab Cert Code
Semi-Volatiles											
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.31	1.0		ng/L	3/13/24 6:41	3/13/24 16:48	RAW	EPA 537.1, Rev 2.0	2
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.47	1.5		ng/L	3/13/24 6:41	3/13/24 16:48	RAW	EPA 537.1, Rev 2.0	2
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.41	1.3		ng/L	3/13/24 6:41	3/13/24 16:48	RAW	EPA 537.1, Rev 2.0	2
hexafluoropropylene oxide dimer acid (HFPO DA)	ND		0.93	3.1		ng/L	3/13/24 6:41	3/13/24 16:48	RAW	EPA 537.1, Rev 2.0	2
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.64	2.1		ng/L	3/13/24 6:41	3/13/24 16:48	RAW	EPA 537.1, Rev 2.0	2
n-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.64	2.1		ng/L	3/13/24 6:41	3/13/24 16:48	RAW	EPA 537.1, Rev 2.0	2
perfluorobutanesulfonic acid (PFBS)	ND		0.72	2.4		ng/L	3/13/24 6:41	3/13/24 16:48	RAW	EPA 537.1, Rev 2.0	2
perfluorodecanoic acid (PFDA)	ND		0.54	1.8		ng/L	3/13/24 6:41	3/13/24 16:48	RAW	EPA 537.1, Rev 2.0	2
perfluorododecanoic acid (PFDoA)	ND		0.62	2.0		ng/L	3/13/24 6:41	3/13/24 16:48	RAW	EPA 537.1, Rev 2.0	2
perfluoroheptanoic acid (PFHpA)	ND		0.54	1.8		ng/L	3/13/24 6:41	3/13/24 16:48	RAW	EPA 537.1, Rev 2.0	2
perfluorohexanoic acid (PFHxA)	ND		0.50	1.6		ng/L	3/13/24 6:41	3/13/24 16:48	RAW	EPA 537.1, Rev 2.0	2
perfluorohexanesulfonic acid (PFHxS)	ND		0.63	2.1		ng/L	3/13/24 6:41	3/13/24 16:48	RAW	EPA 537.1, Rev 2.0	2
perfluorononanoic acid (PFNA)	ND		0.52	1.7		ng/L	3/13/24 6:41	3/13/24 16:48	RAW	EPA 537.1, Rev 2.0	2
perfluorooctanoic acid (PFOA)	ND		0.47	1.5		ng/L	3/13/24 6:41	3/13/24 16:48	RAW	EPA 537.1, Rev 2.0	2
perfluorooctanesulfonic acid (PFOS)	ND		0.48	1.6		ng/L	3/13/24 6:41	3/13/24 16:48	RAW	EPA 537.1, Rev 2.0	2
perfluorotetradecanoic acid (PFTA)	ND		0.54	1.8		ng/L	3/13/24 6:41	3/13/24 16:48	RAW	EPA 537.1, Rev 2.0	2
perfluorotridecanoic acid (PFTrDA)	ND		0.54	1.8		ng/L	3/13/24 6:41	3/13/24 16:48	RAW	EPA 537.1, Rev 2.0	2
perfluoroundecanoic acid (PFUnA)	ND		0.52	1.7		ng/L	3/13/24 6:41	3/13/24 16:48	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFHxA	90%		Limits:	70-130%			3/13/24 6:41	3/13/24 16:48	RAW	EPA 537.1, Rev 2.0	
Surrogate: (SURR) C13-HFPODA	86%		Limits:	70-130%			3/13/24 6:41	3/13/24 16:48	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFDA	94%		Limits:	70-130%			3/13/24 6:41	3/13/24 16:48	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) d5-NEtFOSAA	86%		Limits:	70-130%			3/13/24 6:41	3/13/24 16:48	RAW	EPA 537.1, Rev 2.0	2



Rhinelander, WI 54501

Northern Lake Service, Inc • 400 N Lake Ave • Crandon, WI 54520 800-278-1254 • www.nlslab.com

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Project Manager: Mark Pauli 3/18/24 11:40 CC02308

List of Certifications

Code	Description	Number	Expires
2	NI S (Crandon) WDNR Laboratory ID No	721026460	8/31/24

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Qualifiers and Definitions

<u>Item</u>	Definition
J	Result is between LOD and LOQ and considered to be within a region of less-certain quantitation.
ND	Analyte NOT DETECTED at or above the LOD or MRL.
LOD	Limit of Detection.
LOQ	Limit of Quantitation.
NA	Not Applicable.
Dry	Dry Weight Basis.
Wet	Wet Weight Basis.
% Dry	Equal to: (mg/kg dry) / 10000.
1000 ug/L	Equal to: 1 mg/L.
MCL	Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.
RPD	Relative Percent Difference.
%REC	Percent Recovery.
Source	Sample that was matrix spiked or duplicated.

All LOD/LOQs adjusted to reflect preparation volumes, dilutions, and/or solids content.

PFAS by EPA Method 537.1 Test Kit 18 PFAS compounds

Return your sample as soon as possible to:

Northern Lake Service 400 N Lake Ave Crandon, WI 54520



Please provide the following information:
Name: David Grandt
Address: 3304 County Hipy C
City/State/Zip: Rhinelander, Wi 54501
Phone: 815-566-6939 12:45pm Fer client collected
Sample Collection Date: <u>U3-D5-2024</u> Sample Collection Time: <u>+: 15 pm AM/PM</u> GU 3/5/2
Sample Collection Location (ex. Kitchen Sink): <u>Artchen Sink</u>
Sample Collected By (Signature):
**Per EPA 537.1, each sample set must be accompanied by a field blank. The purpose of the field blank is to allow for the identification of potential contamination during sample collection and handling.
Final results will be reported directly to the Wisconsin DNR. WDNR will review, interpret, and inform residents of further action. DO NOT CONTACT NORTHERN LAKE SEVICE DIRECTLY
GLT 3/5/24 Lot #S Sample Lot #S Match FE
Laboratory use only: Received at NLS by (Signature): Date/Time: 3/5/27 /3:13
Method of Delivery: Hand delivered Condition (on ice / no ice) Ice
Receiving Temperature (°C) OCC Thermometer # REC 10