



Northern Lake Service, Inc • 400 N Lake Ave • Crandon, WI 54520  
800-278-1254 • [www.nlslab.com](http://www.nlslab.com)

June 15, 2023

Mike Machurick  
3358 County Hwy C  
Rhineland, WI 54501

Project: 2023 On-line Ordering  
Work Order: CB04009  
Received: 04/21/23

Enclosed are the results of analyses for samples received by our laboratory on 4/21/2023. If you have any questions concerning this report, please feel free to contact a client service representative at [clientservices@nlslab.com](mailto:clientservices@nlslab.com).

Sincerely,

A handwritten signature in black ink that reads "Steven M. Hefter".

Steven M. Hefter For Client Services  
Northern Lake Service, Inc.



Mike Machurick  
3358 County Hwy C  
Rhineland, WI 54501

Project: 2023 On-line Ordering  
Project Number: 2023 On-line Ordering  
Project Manager: Mike Machurick

**Reported:**  
6/15/23 18:02

**Work Order:**  
CB04009

### 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
CB04009-01	SD850	DW			4/21/23 10:20	4/21/23 11:45



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**Sample Results**

**Sample: SD850**  
**CB04009-01 (DW) Sampled: 04/21/23 10:20**

Analyte	Result	Qualifier	LOD	LOQ	MCL	Units	Date Prepared	Date Analyzed	Analyst	Method	Lab Cert Code
<b>Semi-Volatiles</b>											
11-chloroicosafafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		0.31	1.0		ng/L	4/26/23 6:52	4/26/23 19:36	RAW	EPA 537.1, Rev 2.0	2
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		0.34	1.1		ng/L	4/26/23 6:52	4/26/23 19:36	RAW	EPA 537.1, Rev 2.0	2
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.37	1.2		ng/L	4/26/23 6:52	4/26/23 19:36	RAW	EPA 537.1, Rev 2.0	2
hexafluoropropylene oxide dimer acid (HFPO DA)	ND		0.41	1.4		ng/L	4/26/23 6:52	4/26/23 19:36	RAW	EPA 537.1, Rev 2.0	2
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.47	1.6		ng/L	4/26/23 6:52	4/26/23 19:36	RAW	EPA 537.1, Rev 2.0	2
n-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.40	1.3		ng/L	4/26/23 6:52	4/26/23 19:36	RAW	EPA 537.1, Rev 2.0	2
perfluorobutanesulfonic acid (PFBS)	29		0.30	1.0		ng/L	4/26/23 6:52	4/26/23 19:36	RAW	EPA 537.1, Rev 2.0	2
perfluorodecanoic acid (PFDA)	ND		0.33	1.1		ng/L	4/26/23 6:52	4/26/23 19:36	RAW	EPA 537.1, Rev 2.0	2
perfluorododecanoic acid (PFDoA)	ND		0.23	0.77		ng/L	4/26/23 6:52	4/26/23 19:36	RAW	EPA 537.1, Rev 2.0	2
perfluoroheptanoic acid (PFHpA)	4900		44	150		ng/L	4/26/23 6:52	4/27/23 9:39	RAW	EPA 537.1, Rev 2.0	2
perfluorohexanoic acid (PFHxA)	5800		47	160		ng/L	4/26/23 6:52	4/27/23 9:39	RAW	EPA 537.1, Rev 2.0	2
perfluorohexanesulfonic acid (PFHxS)	180		34	110		ng/L	4/26/23 6:52	4/27/23 9:39	RAW	EPA 537.1, Rev 2.0	2
perfluorononanoic acid (PFNA)	ND		0.46	1.5		ng/L	4/26/23 6:52	4/26/23 19:36	RAW	EPA 537.1, Rev 2.0	2
perfluorooctanoic acid (PFOA)	5300		49	160		ng/L	4/26/23 6:52	4/27/23 9:39	RAW	EPA 537.1, Rev 2.0	2
perfluorooctanesulfonic acid (PFOS)	0.99	J	0.31	1.0		ng/L	4/26/23 6:52	4/26/23 19:36	RAW	EPA 537.1, Rev 2.0	2
perfluorotetradecanoic acid (PFTA)	ND		0.34	1.1		ng/L	4/26/23 6:52	4/26/23 19:36	RAW	EPA 537.1, Rev 2.0	2
perfluorotridecanoic acid (PFTrDA)	ND		0.43	1.4		ng/L	4/26/23 6:52	4/26/23 19:36	RAW	EPA 537.1, Rev 2.0	2
perfluoroundecanoic acid (PFUnA)	ND		0.30	1.0		ng/L	4/26/23 6:52	4/26/23 19:36	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFHxA	89%		Limits: 70-130%				4/26/23 6:52	4/26/23 19:36	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-HFPODA	123%		Limits: 70-130%				4/26/23 6:52	4/26/23 19:36	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFDA	124%		Limits: 70-130%				4/26/23 6:52	4/26/23 19:36	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) d5-NEtFOSAA	93%		Limits: 70-130%				4/26/23 6:52	4/26/23 19:36	RAW	EPA 537.1, Rev 2.0	2



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**List of Certifications**

<b>Code</b>	<b>Description</b>	<b>Number</b>	<b>Expires</b>
2	NLS (Crandon) WDNR Laboratory ID No.	721026460	8/31/23



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### Qualifiers and Definitions

Item	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.

CB04009

**SAMPLE COLLECTION AND CHAIN OF CUSTODY RECORD**

CLIENT **MIKE MACHURICK**  
 ADDRESS **3358 County Hwy C**  
 CITY **RHINELANDER WI** STATE **WI** ZIP **54450**  
 PROJECT DESCRIPTION / NO. QUOTATION NO.  
 DNR FID # DNR LICENSE #  
 CONTACT PHONE **920-750-0878**  
 PURCHASE ORDER NO. FAX

Wisconsin Lab Cert. No. 721026460  
 WI DATCP 105-000330

N  
An  
40  
Tel



MATRIX:  
 SW = surface water  
 WW = waste water  
 GW = groundwater  
 DW = drinking water  
 TIS = tissue  
 AIR = air  
 SOIL = soil  
 SED = sediment  
 PROD = product  
 SL = sludge  
 OTHER

USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered.  
 Indicate G or C if WW Sample is Grab or Composite.

ANALYZE PER ORDER OF ANALYSIS  
**EPA 537.1**



NO.

ITEM NO.	NLS LAB. NO.	SAMPLE ID	COLLECTION		MATRIX (See above)	ANALYZE PER ORDER OF ANALYSIS	USE BOXES BELOW: Indicate Y or N if GW Sample is field filtered. Indicate G or C if WW Sample is Grab or Composite.										COLLECTION REMARKS (i.e. DNR Well ID#)						
			DATE	TIME																			
1.		SD850	4/21/23	10:20	GW	X																	(2) SAMPLES (1) FB
2.																							
3.																							
4.																							
5.																							
6.																							
7.																							
8.																							
9.																							
10.																							

COLLECTED BY (signature) **DNR COLLECTED** CUSTODY SEAL NO. (IF ANY) DATE/TIME  
 RELINQUISHED BY (signature) RECEIVED BY (signature) DATE/TIME  
 DISPATCHED BY (signature) **Mike Machurick** METHOD OF TRANSPORT **hand delivered** DATE/TIME  
 RECEIVED BY NLS BY (signature) **A. Frazzell** DATE/TIME **04/21/23 11:45** CONDITION **On ice** TEMP **0.4**  
 COOLER # REMARKS & OTHER INFORMATION **R#1, 2**  
 PRESERVATIVE: N = nitric acid OH = sodium hydroxide WDNR FACILITY NUMBER E-MAIL ADDRESS  
 NP = no preservative Z = zinc acetate HA = hydrochloric & ascorbic acid **MIKEMACHURICK@GMAIL.COM**  
 S = sulfuric acid M = methanol H = hydrochloric acid

REPORT TO **Mike Machurick**  
 INVOICE TO **Mike Machurick**

**IMPORTANT:**

1. TO MEET REGULATORY REQUIREMENTS, THIS FORM MUST BE COMPLETED IN DETAIL AND INCLUDED IN THE COOLER CONTAINING THE SAMPLES DESCRIBED.
2. PLEASE USE ONE LINE PER SAMPLE, NOT PER BOTTLE.
3. RETURN THIS FORM WITH SAMPLES - CLIENT MAY KEEP PINK COPY.
4. PARTIES COLLECTING SAMPLE, LISTED AS REPORT TO AND LISTED AS INVOICED TO AGREE TO STANDARD TERMS & CONDITIONS ON REVERSE.

4/21 - Paid w/ cc \$552.50

4/21 - Per Mike - Do Not analyze - F.B. - Cancel -