



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

February 08, 2023

Carl Spittlemeister
2541 Emils Way
Rhineland, WI 54501

RE: Drinking Water Testing
Work Order: CB00661
Received: 01/20/23

Enclosed are the results of analyses for samples received by our laboratory on 1/20/2023. If you have any questions concerning this report, please feel free to contact a client service representative at clientservices@nlslab.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Priebe".

Tom Priebe For Client Services
Northern Lake Service, Inc.



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2541 Emils Way
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Project: Drinking Water Testing
Project Number:
Project Manager: Carl Spittlemeister

Reported:
2/8/23 10:38

Work Order:
CB00661

Sample Summary

[TOC_1]Samples in Report[TOC_1]

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
CB00661-01	Sample Tap	DW			1/20/23 13:25	1/20/23 14:45



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Sample Results

[TOC, 1]Sample Results[TOC]

Sample: Sample Tap

CB00661-01 (DW) Sampled: 01/20/23 13:25

Analyte	Result	Qualifier	Dilution	LOD	LOQ	MCL	Units	Date Prepared	Date Analyzed	Analyst	Method	Lab Cert Code
Semi-Volatiles												
11-chloroicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND		1	0.30	0.96		ng/L	1/30/23 6:48	1/31/23 10:39	RAW	EPA 537.1, Rev 2.0	2
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND		1	0.33	1.1		ng/L	1/30/23 6:48	1/31/23 10:39	RAW	EPA 537.1, Rev 2.0	2
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND		1	0.36	1.2		ng/L	1/30/23 6:48	1/31/23 10:39	RAW	EPA 537.1, Rev 2.0	2
hexafluoropropylene oxide dimer acid (HFPO DA)	ND		1	0.39	1.3		ng/L	1/30/23 6:48	1/31/23 10:39	RAW	EPA 537.1, Rev 2.0	2
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		1	0.45	1.5		ng/L	1/30/23 6:48	1/31/23 10:39	RAW	EPA 537.1, Rev 2.0	2
n-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		1	0.38	1.2		ng/L	1/30/23 6:48	1/31/23 10:39	RAW	EPA 537.1, Rev 2.0	2
perfluorobutanesulfonic acid (PFBS)	2.6		1	0.29	0.96		ng/L	1/30/23 6:48	1/31/23 10:39	RAW	EPA 537.1, Rev 2.0	2
perfluorodecanoic acid (PFDA)	ND		1	0.32	1.1		ng/L	1/30/23 6:48	1/31/23 10:39	RAW	EPA 537.1, Rev 2.0	2
perfluorododecanoic acid (PFDoA)	ND		1	0.22	0.74		ng/L	1/30/23 6:48	1/31/23 10:39	RAW	EPA 537.1, Rev 2.0	2
perfluoroheptanoic acid (PFHpA)	17		1	0.42	1.4		ng/L	1/30/23 6:48	1/31/23 10:39	RAW	EPA 537.1, Rev 2.0	2
perfluorohexanoic acid (PFHxA)	17		1	0.45	1.5		ng/L	1/30/23 6:48	1/31/23 10:39	RAW	EPA 537.1, Rev 2.0	2
perfluorohexanesulfonic acid (PFHxS)	24		1	0.33	1.1		ng/L	1/30/23 6:48	1/31/23 10:39	RAW	EPA 537.1, Rev 2.0	2
perfluorononanoic acid (PFNA)	ND		1	0.44	1.4		ng/L	1/30/23 6:48	1/31/23 10:39	RAW	EPA 537.1, Rev 2.0	2
perfluorooctanoic acid (PFOA)	86		2	0.94	3.1		ng/L	1/30/23 6:48	1/31/23 20:14	RAW	EPA 537.1, Rev 2.0	2
perfluorooctanesulfonic acid (PFOS)	4.5		1	0.30	0.96		ng/L	1/30/23 6:48	1/31/23 10:39	RAW	EPA 537.1, Rev 2.0	2
perfluorotetradecanoic acid (PFTA)	ND		1	0.33	1.1		ng/L	1/30/23 6:48	1/31/23 10:39	RAW	EPA 537.1, Rev 2.0	2
perfluorotridecanoic acid (PFTrDA)	ND		1	0.41	1.3		ng/L	1/30/23 6:48	1/31/23 10:39	RAW	EPA 537.1, Rev 2.0	2
perfluoroundecanoic acid (PFUnA)	ND		1	0.29	0.96		ng/L	1/30/23 6:48	1/31/23 10:39	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFHxA	97%			Limits: 70-130%				1/30/23 6:48	1/31/23 10:39	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-HFPODA	94%			Limits: 70-130%				1/30/23 6:48	1/31/23 10:39	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) C13-PFDA	98%			Limits: 70-130%				1/30/23 6:48	1/31/23 10:39	RAW	EPA 537.1, Rev 2.0	2
Surrogate: (SURR) d5-NEtFOSAA	97%			Limits: 70-130%				1/30/23 6:48	1/31/23 10:39	RAW	EPA 537.1, Rev 2.0	2



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List of Certifications

[TOC_3]Certifications[TOC_3]

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



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Qualifiers and Definitions

*[TOC_1]Qualifiers and
Definitions[TOC_1]*

Item	Definition
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.

