Private Well Sample Results
317 Shelly Ln

Wisconsin State Laboratory of Hygiene
UNIVERSITY OF WISCONSIN-MADISON

Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive, PO Box 7996
Madison, WI 53707-7996
(800)442-4618 - FAX (608)224-6213
http://www.slh.wisc.edu

Laboratory Report

Environmental Health Division

WSLH Sample: 571959001

Report To:
[redacted]
317 SHELLY LN
LA CROSSE, WI 54603

Invoice To:
[redacted]
317 SHELLY LN
LA CROSSE, WI 54603
Customer ID: 356511

Field #: KITCHENSINK 317 SHELLY LANE
Project No:
Collection End: 7/12/2021 10:00:00 AM
Collection Start:
Collected By: [redacted]
Date Received: 7/13/2021
Date Reported: 8/2/2021
Sample Reason:

ID#:
Sample Location:
Sample Description: KITCHEN SINK 317 SHELLY LN
Sample Type: PO-PRIVATE WELL
Waterbody:
Point or Outfall:
Sample Depth:
Program Code:
Region Code:
County:

PFAS in Water

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 07/22/21 12:00	Analysis Date: 07/28/21 11:02				
PFBA (375-22-4)	WSLH PFAS in Water	<2.80	ng/L	2.80	7.99
PFPeA (2706-90-3)	WSLH PFAS in Water	<0.241	ng/L	0.241	0.999
PFBS (375-73-5)	WSLH PFAS in Water	0.470F	ng/L	0.156	0.999
4:2 FTSA (757124-72-4)	WSLH PFAS in Water	<0.221	ng/L	0.221	0.999
PFHxA (307-24-4)	WSLH PFAS in Water	<0.135	ng/L	0.135	0.999
The Laboratory Control Spike (LCS) does not meet the upper QC limit.					
PFPeS (2706-91-4)	WSLH PFAS in Water	0.132F	ng/L	0.0845	0.999
HFPO-DA (13252-13-6)	WSLH PFAS in Water	<0.147	ng/L	0.147	0.999
PFHpA (375-85-9)	WSLH PFAS in Water	<0.104	ng/L	0.104	0.999
PFHxS (355-46-4)	WSLH PFAS in Water	0.772F	ng/L	0.0932	0.999
DONA (919005-14-4)	WSLH PFAS in Water	<0.102	ng/L	0.102	0.999
6:2 FTSA (27619-97-2)	WSLH PFAS in Water	<0.167	ng/L	0.167	0.999
PFOA (335-67-1)	WSLH PFAS in Water	<0.195	ng/L	0.195	0.999
The Laboratory Control Spike (LCS) does not meet the upper QC limit.					
PFHpS (375-92-8)	WSLH PFAS in Water	<0.112	ng/L	0.112	0.999
PFOS (1763-23-1)	WSLH PFAS in Water	<0.131	ng/L	0.131	0.999
PFNA (375-95-1)	WSLH PFAS in Water	<0.156	ng/L	0.156	0.999

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Laboratory Report

Environmental Health Division

WSLH Sample: 571959001

PFAS in Water

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 07/22/21 12:00	Analysis Date: 07/28/21 11:02				
9Cl-PF3ONS (756426-58-1)	WSLH PFAS in Water	<0.144	ng/L	0.144	0.999
8:2 FTSA (39108-34-4)	WSLH PFAS in Water	<0.133	ng/L	0.133	0.999
PFDA (335-76-2)	WSLH PFAS in Water	<0.151	ng/L	0.151	0.999
The Laboratory Control Spike (LCS) does not meet the upper QC limit.					
PFNS (68259-12-1)	WSLH PFAS in Water	<0.191	ng/L	0.191	0.999
N-MeFOSAA (2355-31-9)	WSLH PFAS in Water	<0.196	ng/L	0.196	0.999
N-EtFOSAA (2991-50-6)	WSLH PFAS in Water	<0.297	ng/L	0.297	0.999
FOSA (754-91-6)	WSLH PFAS in Water	<0.874	ng/L	0.874	4.00
PFUnA (2058-94-8)	WSLH PFAS in Water	<0.189	ng/L	0.189	0.999
PFDS (335-77-3)	WSLH PFAS in Water	<0.198	ng/L	0.198	0.999
11Cl-PF3OUdS (763051-92-9)	WSLH PFAS in Water	<0.142	ng/L	0.142	0.999
PFDoA (307-55-1)	WSLH PFAS in Water	<0.257	ng/L	0.257	0.999
The Laboratory Control Spike (LCS) does not meet the upper QC limit.					
PFDoS (79780-39-5)	WSLH PFAS in Water	<0.897	ng/L	0.897	4.00
PFTrDA (72629-94-8)	WSLH PFAS in Water	<0.246	ng/L	0.246	0.999
N-MeFOSA (31506-32-8)	WSLH PFAS in Water	<0.465	ng/L	0.465	0.999
N-MeFOSE (24448-09-7)	WSLH PFAS in Water	<0.433	ng/L	0.433	0.999
N-EtFOSA (4151-50-2)	WSLH PFAS in Water	<0.316	ng/L	0.316	0.999
N-EtFOSE (1691-99-2)	WSLH PFAS in Water	<0.490	ng/L	0.490	0.999
PFTeDA (376-06-7)	WSLH PFAS in Water	<0.495	ng/L	0.495	0.999

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Laboratory Report

Environmental Health Division

WSLH Sample: 571959001

WDNR LAB ID:113133790 NELAP LAB ID:2091 EPA LAB ID:WI00007, WI00008 WI DATCP ID:105-415

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification (for PFAS the LOQ = MRL)
ND = None detected. Results are less than the LOD
F next to result = Result is between LOD and LOQ
Z next to result = Result is between 0 (zero) and LOD
if LOD=LOQ, Limits were not statistically derived

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes
see http://www.slh.wisc.edu/about/compliance/nelac-laboratory-accreditation
Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.
Results relate only to the items tested.

The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.

Responsible Party

Inorganic Chemistry: Graham Anderson, Supervisor 608-224-6281
Metals: Graham Anderson, Supervisor 608-224-6281
Organics: Erin Mani, Supervisor 608-224-6269
Environmental Toxicology: Dawn Perkins, Supervisor 608-224-6230
Water Microbiology: Martin Collins, Supervisor 608-224-6239
Radiochemistry: David Webb, Division Director 608-224-6227

Private Well Sample Results
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Laboratory Report

Environmental Health Division

WSLH Sample: 571960001

Report To:
[redacted]
318 SHELLY LN
LA CROSSE, WI 54603

Invoice To:
[redacted]
318 SHELLY LN
LA CROSSE, WI 54603
Customer ID: 356510

Field #: KITCHEN FAUCET 318 SHELLY
Project No:
Collection End: 7/12/2021 9:30:00 AM
Collection Start:
Collected By: [redacted]
Date Received: 7/13/2021
Date Reported: 8/2/2021
Sample Reason:

ID#:
Sample Location:
Sample Description: KITCHEN FAUCET 318 SHELLY LN
Sample Type: PO-PRIVATE WELL
Waterbody:
Point or Outfall:
Sample Depth:
Program Code:
Region Code:
County:

PFAS in Water

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 07/22/21 12:00	Analysis Date: 07/28/21 11:44				
PFBA (375-22-4)	WSLH PFAS in Water	<2.68	ng/L	2.68	7.65
PFPeA (2706-90-3)	WSLH PFAS in Water	<0.230	ng/L	0.230	0.956
PFBS (375-73-5)	WSLH PFAS in Water	0.363F	ng/L	0.149	0.956
4:2 FTSA (757124-72-4)	WSLH PFAS in Water	<0.211	ng/L	0.211	0.956
PFHxA (307-24-4)	WSLH PFAS in Water	<0.129	ng/L	0.129	0.956
The Laboratory Control Spike (LCS) does not meet the upper QC limit.					
PFPeS (2706-91-4)	WSLH PFAS in Water	<0.0809	ng/L	0.0809	0.956
HFPO-DA (13252-13-6)	WSLH PFAS in Water	<0.141	ng/L	0.141	0.956
PFHpA (375-85-9)	WSLH PFAS in Water	<0.0994	ng/L	0.0994	0.956
PFHxS (355-46-4)	WSLH PFAS in Water	0.625F	ng/L	0.0892	0.956
DONA (919005-14-4)	WSLH PFAS in Water	<0.0975	ng/L	0.0975	0.956
6:2 FTSA (27619-97-2)	WSLH PFAS in Water	<0.160	ng/L	0.160	0.956
PFOA (335-67-1)	WSLH PFAS in Water	<0.186	ng/L	0.186	0.956
The Laboratory Control Spike (LCS) does not meet the upper QC limit.					
PFHpS (375-92-8)	WSLH PFAS in Water	<0.107	ng/L	0.107	0.956
PFOS (1763-23-1)	WSLH PFAS in Water	<0.125	ng/L	0.125	0.956
PFNA (375-95-1)	WSLH PFAS in Water	<0.149	ng/L	0.149	0.956

Report ID: 8890222

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Laboratory Report

Environmental Health Division

WSLH Sample: 571960001

PFAS in Water

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 07/22/21 12:00	Analysis Date: 07/28/21 11:44				
9Cl-PF3ONS (756426-58-1)	WSLH PFAS in Water	<0.138	ng/L	0.138	0.956
8:2 FTSA (39108-34-4)	WSLH PFAS in Water	<0.127	ng/L	0.127	0.956
PFDA (335-76-2)	WSLH PFAS in Water	<0.144	ng/L	0.144	0.956
The Laboratory Control Spike (LCS) does not meet the upper QC limit.					
PFNS (68259-12-1)	WSLH PFAS in Water	<0.183	ng/L	0.183	0.956
N-MeFOSAA (2355-31-9)	WSLH PFAS in Water	<0.187	ng/L	0.187	0.956
N-EtFOSAA (2991-50-6)	WSLH PFAS in Water	<0.284	ng/L	0.284	0.956
FOSA (754-91-6)	WSLH PFAS in Water	<0.837	ng/L	0.837	3.82
PFUnA (2058-94-8)	WSLH PFAS in Water	<0.181	ng/L	0.181	0.956
PFDS (335-77-3)	WSLH PFAS in Water	<0.189	ng/L	0.189	0.956
11Cl-PF3OUdS (763051-92-9)	WSLH PFAS in Water	<0.136	ng/L	0.136	0.956
PFDoA (307-55-1)	WSLH PFAS in Water	<0.246	ng/L	0.246	0.956
The Laboratory Control Spike (LCS) does not meet the upper QC limit.					
PFDoS (79780-39-5)	WSLH PFAS in Water	<0.859	ng/L	0.859	3.82
PFTrDA (72629-94-8)	WSLH PFAS in Water	<0.235	ng/L	0.235	0.956
N-MeFOSA (31506-32-8)	WSLH PFAS in Water	<0.446	ng/L	0.446	0.956
N-MeFOSE (24448-09-7)	WSLH PFAS in Water	<0.414	ng/L	0.414	0.956
N-EtFOSA (4151-50-2)	WSLH PFAS in Water	<0.302	ng/L	0.302	0.956
N-EtFOSE (1691-99-2)	WSLH PFAS in Water	<0.469	ng/L	0.469	0.956
PFTeDA (376-06-7)	WSLH PFAS in Water	<0.474	ng/L	0.474	0.956

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Laboratory Report

Environmental Health Division

WSLH Sample: 571960001

WDNR LAB ID:113133790 NELAP LAB ID:2091 EPA LAB ID:WI00007, WI00008 WI DATCP ID:105-415

List of Abbreviations:

LOD = Level of detection
LOQ = Level of quantification (for PFAS the LOQ = MRL)
ND = None detected. Results are less than the LOD
F next to result = Result is between LOD and LOQ
Z next to result = Result is between 0 (zero) and LOD
if LOD=LOQ, Limits were not statistically derived

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see http://www.slh.wisc.edu/about/compliance/nelac-laboratory-accreditation
Results, LOD and LOQ values have been adjusted for analytical dilutions and percent moisture where applicable.
Results relate only to the items tested.

The water microbiology unit analyzes samples as received and not all samples are tested for preservation before analysis is performed.

Responsible Party

Inorganic Chemistry: Graham Anderson, Supervisor 608-224-6281
Metals: Graham Anderson, Supervisor 608-224-6281
Organics: Erin Mani, Supervisor 608-224-6269
Environmental Toxicology: Dawn Perkins, Supervisor 608-224-6230
Water Microbiology: Martin Collins, Supervisor 608-224-6239
Radiochemistry: David Webb, Division Director 608-224-6227

Private Well Sample Results
903 Steven Place

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

NOT FOR SDWA COMPLIANCE

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105-330

Printed: 06/09/21 Page 1 of 1

Client: [redacted]
903 Steven Place
La Crosse, WI 54603

4-2250-0

NLS Project: 366952
NLS Customer: 113654
Phone: 608 792 2476

Project: Homeowner PFAS by EPA Method 537.1

Kitchen Faucet NLS ID: 1256806
Matrix: DW
Collected: 06/01/21 07:00 Received: 06/02/21

Parameter	Result	Units	LOD	MCL	Analyzed	Method
PFAS Compounds	see attached				06/07/21	EPA 537.1

ND = Not Detected (< LOD) **LOD** = Limit of Detection **MCL** = Maximum Contaminant Levels for Drinking Water samples.
The Maximum Contaminant Levels (MCL) are the Federal Safe Drinking Water limits established by the United States Environmental Protection Agency (EPA). All municipal public water supplies must achieve levels at or below the values for individual compounds as listed to have the water considered "safe" for consumption. You can compare your result to the Federal limit listed to see if it meets the same standard that is required of public drinking water systems.

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA Method 537.1 Safe Drinking Water Analysis

4-2250-0

Customer: [redacted] NLS Project: 366952

Project Description: Homeowner PFAS by EPA Method 537.1

903 Steven Pl

Project Title: Template: SCI1537.1 Printed: 06/09/2021 11:23

Sample: 1256806 Kitchen Faucet Collected: 06/01/21 Analyzed: 06/07/21 - Analytes: 18

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Perfluorohexanoic acid (PFHxA)	[3.05]	ng/L	1	1.4	4.5	J
Perfluoroheptanoic acid (PFHpA)	ND	ng/L	1	1.1	3.6	
Perfluorooctanoic acid (PFOA)	34	ng/L	1	0.84	2.8	
Perfluorononanoic acid (PFNA)	ND	ng/L	1	0.96	3.2	
Perfluorodecanoic acid (PFDA)	ND	ng/L	1	0.62	2.1	
Perfluoroundecanoic acid (PFUnA)	ND	ng/L	1	0.76	2.5	
Perfluorododecanoic acid (PFDoA)	ND	ng/L	1	1.1	3.6	
Perfluorotridecanoic acid (PFTriA)	ND	ng/L	1	1.1	3.8	
Perfluorotetradecanoic acid (PFTeA)	ND	ng/L	1	1.2	3.9	
Perfluorobutanesulfonic acid (PFBS)	4.54	ng/L	1	0.65	2.2	
Perfluorohexanesulfonic acid (PFHxS)	4.38	ng/L	1	0.53	1.8	
Perfluorooctanesulfonic acid (PFOS)	10.3	ng/L	1	0.45	1.5	
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND	ng/L	1	0.55	1.8	
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND	ng/L	1	0.60	2.0	
Hexafluoropropylene oxide dimer acid (GenX)	ND	ng/L	1	1.3	4.4	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND	ng/L	1	0.73	2.4	
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND	ng/L	1	0.83	2.8	
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CL-PF3OUdS)	ND	ng/L	1	0.77	2.6	
C13-PFHxA (SURR)	86.3%		1			S
C13-HFPODA (SURR)	91.7%		1			S
C13-PFDA (SURR)	95.3%		1			S
d5-NEtFOSAA (SURR)	99.7%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.

S = Surrogate (SURR): A non-target analyte that has similar chemical properties to the analytes of interest. The surrogate is added to the sample in a known amount and is used to evaluate method performance of the sample.

Private Well Sample Results
1605 Caroline St

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA Method 537.1 Safe Drinking Water Analysis

Customer: [redacted] **NLS Project: 368112**

Project Description: Drinking Water Analysis

Project Title: **Template: SCI1537.1 Printed: 07/07/2021 12:01**

Sample: 1260744 Sample Tap Collected: 06/22/21 Analyzed: 07/04/21 - Analytes: 18

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	Note
Perfluorohexanoic acid (PFHxA)	ND	ng/L	1	1.4	4.5	
Perfluoroheptanoic acid (PFHpA)	ND	ng/L	1	1.1	3.6	
Perfluorooctanoic acid (PFOA)	ND	ng/L	1	0.84	2.8	
Perfluorononanoic acid (PFNA)	ND	ng/L	1	0.96	3.2	
Perfluorodecanoic acid (PFDA)	ND	ng/L	1	0.62	2.1	
Perfluoroundecanoic acid (PFUnA)	ND	ng/L	1	0.76	2.5	
Perfluorododecanoic acid (PFDoA)	ND	ng/L	1	1.1	3.6	
Perfluorotridecanoic acid (PFTriA)	ND	ng/L	1	1.1	3.8	
Perfluorotetradecanoic acid (PFTeA)	ND	ng/L	1	1.2	3.9	
Perfluorobutanesulfonic acid (PFBS)	[1.8]	ng/L	1	0.65	2.2	J
Perfluorohexanesulfonic acid (PFHxS)	5.29	ng/L	1	0.53	1.8	
Perfluorooctanesulfonic acid (PFOS)	3.31	ng/L	1	0.45	1.5	
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND	ng/L	1	0.55	1.8	
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND	ng/L	1	0.60	2.0	
Hexafluoropropylene oxide dimer acid (GenX)	ND	ng/L	1	1.3	4.4	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND	ng/L	1	0.73	2.4	
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND	ng/L	1	0.83	2.8	
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CL-PF3OUdS)	ND	ng/L	1	0.77	2.6	
C13-PFHxA (SURR)	83%		1			S
C13-HFPODA (SURR)	97.6%		1			S
C13-PFDA (SURR)	83.3%		1			S
d5-NEtFOSAA (SURR)	93%		1			S

NOTES APPLICABLE TO THIS ANALYSIS:

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S = Surrogate (SURR): A non-target analyte that has similar chemical properties to the analytes of interest. The surrogate is added to the sample in a known amount and is used to evaluate method performance of the sample.

Private Well Sample Results
1618 Caroline St

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

NOT FOR SDWA COMPLIANCE

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105-330

Printed: 07/13/21 Page 1 of 1

Client: [redacted]
1618 Caroline St
La Crosse, WI 54603

4-912-0

NLS Project: 369049
NLS Customer: 113751
Phone: 507 459 5469

Project: Drinking Water Analysis

Kitchen Faucet NLS ID: 1264018
Matrix: DW
Collected: 07/07/21 00:00 Received: 07/09/21

Parameter	Result	Units	LOD	MCL	Analyzed	Method
Perfluorinated Chemicals (Aqueous) by Method WIPFAS	see attached				07/12/21	WIPFAS
Solid Phase Extraction (Aqueous) by Method WIPFAS	yes				07/12/21	WIPFAS

ND = Not Detected (< LOD) **LOD** = Limit of Detection **MCL** = Maximum Contaminant Levels for Drinking Water samples.
The Maximum Contaminant Levels (MCL) are the Federal Safe Drinking Water limits established by the United States Environmental Protection Agency (EPA). All municipal public water supplies must achieve levels at or below the values for individual compounds as listed to have the water considered "safe" for consumption. You can compare your result to the Federal limit listed to see if it meets the same standard that is required of public drinking water systems.

ANALYTICAL RESULTS: Perfluorinated Chemicals by Method WIPFAS Non-Potable Water Analysis

Customer: [redacted] **NLS Project: 369049**

Project Description: Drinking Water Analysis

Project Title: **Template: WIPFAS Printed: 07/13/2021 14:30**

Sample: 1264018 Kitchen Faucet Collected: 07/07/21 Analyzed: 07/12/21 - Analytes: 33

ANALYTE NAME	RESULT	UNITS	DIL	LOD	MRL	Note
Perfluorobutanoic acid (PFBA)	4.8	ng/L	1	0.96	4.0	
Perfluoropentanoic acid (PFPeA)	<0.85	ng/L	1	0.85	4.0	
Perfluorohexanoic acid (PFHxA)	<0.94	ng/L	1	0.94	4.0	
Perfluoroheptanoic acid (PFHpA)	<1.0	ng/L	1	1.0	4.0	
Perfluorooctanoic acid (PFOA)	[2.06]	ng/L	1	0.75	4.0	J
Perfluorononanoic acid (PFNA)	<0.93	ng/L	1	0.93	4.0	
Perfluorodecanoic acid (PFDA)	<1.4	ng/L	1	1.4	4.0	
Perfluoroundecanoic acid (PFUnA)	<1.8	ng/L	1	1.8	4.0	
Perfluorododecanoic acid (PFDoA)	<1.7	ng/L	1	1.7	4.0	
Perfluorotridecanoic acid (PFTriA)	<1.7	ng/L	1	1.7	4.0	
Perfluorotetradecanoic acid (PFTeA)	<1.2	ng/L	1	1.2	4.0	
Perfluorobutanesulfonic acid (PFBS)	[2.57]	ng/L	1	0.63	3.5	J
Perfluoropentanesulfonic acid (PFPeS)	<0.86	ng/L	1	0.86	3.8	
Perfluorohexanesulfonic acid (PFHxS)	[1.95]	ng/L	1	0.92	3.7	J
Perfluoroheptanesulfonic acid (PFHpS)	<0.73	ng/L	1	0.73	3.8	
Perfluorooctanesulfonic acid (PFOS)	<1.1	ng/L	1	1.1	3.7	
Perfluorononanesulfonic acid (PFNS)	<0.63	ng/L	1	0.63	3.8	
Perfluorodecanesulfonic acid (PFDS)	<0.62	ng/L	1	0.62	3.9	
Perfluorododecanesulfonic acid (PFDoS)	<1.3	ng/L	1	1.3	3.9	
4:2 Fluorotelomer sulfonic acid (4:2 FTSA)	<1.3	ng/L	1	1.3	3.7	
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	<1.7	ng/L	1	1.7	3.8	
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	<1.5	ng/L	1	1.5	3.8	
Perfluorooctane sulfonamide (FOSA)	<0.97	ng/L	1	0.97	4.0	
N-Methyl perfluorooctane sulfonamide (NMeFOSA)	<1.2	ng/L	1	1.2	4.0	
N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	<1.0	ng/L	1	1.0	4.0	
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	<1.1	ng/L	1	1.1	4.0	
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	<1.7	ng/L	1	1.7	4.0	
N-Methyl perfluorooctane sulfonamidoethanol (NMeFOSE)	<1.4	ng/L	1	1.4	4.0	
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE)	<1.0	ng/L	1	1.0	4.0	
Hexafluoropropylene oxide dimer acid (HFPO-DA)	<0.72	ng/L	1	0.72	4.0	
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	<0.73	ng/L	1	0.73	3.8	
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	<0.83	ng/L	1	0.83	3.7	
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CL-PF3OUdS)	<1.1	ng/L	1	1.1	3.8	

NOTES APPLICABLE TO THIS ANALYSIS:

J = Result enclosed in brackets is between LOD and MRL, a region of less certain quantitation.

All LOD/MRLs adjusted to reflect dilution.

NORTHERN LAKE SERVICE, INC.
Analytical Laboratory and Environmental Services
400 North Lake Avenue - Crandon, WI 54520
Ph: (715)-478-2777 Fax: (715)-478-3060

ANALYTICAL REPORT

NOT FOR SDWA COMPLIANCE

WDNR Laboratory ID No. 721026460
WDATCP Laboratory Certification No. 105-330

Printed: 07/13/21 Page 1 of 1

Client: [redacted]
1618 Caroline St
La Crosse, WI 54603

NLS Project: 369049
NLS Customer: 113751
Phone: 507 459 5469

Project: Drinking Water Analysis

Kitchen Faucet NLS ID: 1264018
Matrix: DW
Collected: 07/07/21 00:00 Received: 07/09/21

Parameter	Result	Units	LOD	MCL	Analyzed	Method
Perfluorinated Chemicals (Aqueous) by Method WIPFAS	see attached				07/12/21	WIPFAS
Solid Phase Extraction (Aqueous) by Method WIPFAS	yes				07/12/21	WIPFAS

ND = Not Detected (< LOD) **LOD** = Limit of Detection **MCL** = Maximum Contaminant Levels for Drinking Water samples.
The Maximum Contaminant Levels (MCL) are the Federal Safe Drinking Water limits established by the United States Environmental Protection Agency (EPA). All municipal public water supplies must achieve levels at or below the values for individual compounds as listed to have the water considered "safe" for consumption. You can compare your result to the Federal limit listed to see if it meets the same standard that is required of public drinking water systems.

Private Well Sample Results
1632 Caroline St

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 10, 2021

Matt Zastrow
US Water, LLC
6905 Venture Circle
Schofield, WI 54476

RE: Project: 1632 CAROLINE ST
Pace Project No.: 40235623

Dear Matt Zastrow:

Enclosed are the analytical results for sample(s) received by the laboratory on October 21, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Steven Mleczko
steve.mleczko@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 1632 CAROLINE ST
Pace Project No.: 40235623

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40235623001	**KITCHEN TAP**	Drinking Water	10/16/21 15:00	10/21/21 09:20

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: US Water	Billing Information: same
Address: 6905 Venture Circle	
Report To: Matt Zastrow	Email To: matt2@uswater.com
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: 1632 Caroline St	State: WI County/City: Time Zone Collected: [ ] PT [ ] MT [X] CT [ ] ET
Phone: 715-842-2215 Email: matt2@uswater.com	Site/Facility ID #: Compliance Monitoring? [ ] Yes [X] No
Collected By (print): Reese Mullen	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
	Field Filtered (if applicable): [ ] Yes [X] No Analysis:

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses

Lab Profile/Line: 605

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA
pH Strips:	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	PFAS
Kitchen Tap	DW	Grab	10-16-21	15:00				2	X

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2685562

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 4
Cooler 1 Temp Upon Receipt: 1.5 oC
Cooler 1 Therm Corr. Factor: ____ oC
Cooler 1 Corrected Temp: 1.5 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	10-20-21 16:40		10/21/21 0920
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 1

Pace Analytical	Document Name: **Pending Log-in Process**	Document Revised: 26Mar2020 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0126 Rev.00**	Pace Analytical Services - **Minneapolis**

SR Tech MLK Date Initiated 10/21/21 PM SH Client Name US Water Profile # _____ Pink shelf ☐ #1 ☒ #2

Issue Type (check all that apply)*	**Client Name/Project Name on containers (if no COC)**
[ ] **COC Issue**_____ **Date/Time Received** 10/21/21 920	
EPIC Issue (check one) [ ] Client not in Epic [X] Profile not in Epic [ ] Add acode [ ] Other	**Resolution** NT3V PM/Date _____

Sample Line Item	BP1U	BP2U	BP3U	BP3S	BP3N	AG1U	AG1H	AG3S	AGIT	JGFU	JGCU	BJFU	WPDU	VG9M	VG9H	GN	SP5T	DWC
	Check the box to the left to indicate that the container(s) received for line items 1 - 1 are identical to the container(s) documented for line item 1 for this																	
1							2											
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Comments: Cannot locate profile associated with Matt Zastrow.

Logged in by (initial)_____ **Date**_____ **WO** _____

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - MN**	Document Revised: 14Apr2021 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0150 Rev.02**	Pace Analytical Services - **Minneapolis**

Sample Condition Upon Receipt

Client Name: WD, water

Project #:

Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial

Tracking Number: 1Z F80 745 03 2726 5206 — See Exceptions ☐ ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: _____ **Temp Blank?** ☒ Yes ☐ No

Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ OS418-LS ☒ T4(0254) ☐ T5(0489) ☐ 160285052 **Type of Ice:** ☒ Wet ☒ Blue ☐ None ☐ Dry ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☒ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 1.8 °C **Average Corrected Temp (no temp blank only):** _____ °C ☐ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container

Correction Factor: +1.2 **Cooler Temp Corrected w/temp blank:** 1.4 °C

USDA Regulated Soil: (☒ N/A, water sample/Other: _____)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

Date/Initials of Person Examining Contents: KM 10/26/21

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present and Filled Out?	☒ Yes	☐ No		1.
Chain of Custody Relinquished?	☒ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes	☐ No		4.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☐ Yes	☒ No		6.
Sufficient Volume?	☒ Yes	☐ No		7.
Correct Containers Used? -Pace Containers Used?	☒ Yes ☒ Yes	☐ No ☐ No		8.
Containers Intact?	☒ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☒ Water ☐ Soil ☐ Oil ☐ Other	☒ Yes	☐ No		11. If no, write ID/ Date/Time on Container Below: — See Exception ☐ ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☒ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide) Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☒ Yes	☐ No	☐ N/A	☐ NaOH ☐ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate Positive for Res. Chlorine? ☐ Yes ☐ No — See Exception ☐ ENV-FRM-MIN4-0142 pH Paper Lot# Res. Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☒ N/A	13. — See Exception ☐ ENV-FRM-MIN4-0140
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☒ N/A	
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	Pace Trip Blank Lot # (if purchased):

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____ **Date:** _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: _____

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

Client Services
PACE Wisconsin
1241 Bellevue Street
Green Bay WI 54302

REPORT OF LABORATORY ANALYSIS FOR PFAAs

Report Information:

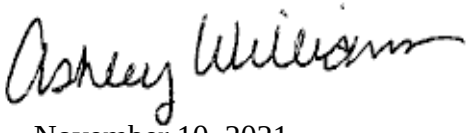
Pace Project #: 10584443
Sample Receipt Date: 10/21/2021
Client Project #: 40235623 US Water LLC
Client Sub PO #: N/A
State Cert #: 999407970

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PFAA Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Ashley Williams, your Pace Project Manager.

This report has been reviewed by:



November 10, 2021

Ashley Williams, Project Manager
(612) 346-8158
(612) 607-6444 (fax)
ashley.williams@pacelabs.com

Report Prepared Date:
November 9, 2021

Report of Laboratory Analysis

DISCUSSION

This report presents the results from the analyses performed on one sample submitted by a representative of Pace Wisconsin. The sample was analyzed for thirty-three perfluorinated compounds using Wisconsin DNR Guidance for PFAS. Reporting limits were set to MDL.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blanks were free of the target perfluorinated compounds at the reporting limits.

A laboratory spike sample was also prepared with the sample batch using clean reference matrix that had been fortified with native standards. The recovery results were within the method limits. These spikes indicate that extraction performed as expected. Matrix spikes were prepared with the sample batch using sample material from a separate project; results from that analysis will be provided upon request.

The four injection internal standards (13C4 PFOA, 13C4 PFOS, 13C2_PFDA, and 13C2_PFHxA) pass for each analysis in the batch verifying that the instrument detector is working as expected.

Elevated extracted internal standard (EIS) recoveries (“R” Flag) were present in BLANK-94205, however, the use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard.

Results below the calibration range were flagged "J".

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
		Missouri	10100
A2LA	2926.01	Montana	CERT0092
Alabama	40770	Nebraska	NE-OS-18-06
Alaska-DW	MN00064	Nevada	MN00064
Alaska-UST	17-009	New Hampshire	2081
Arizona	AZ0014	New Jersey	MN002
Arkansas - WW	88-0680	New York	11647
Arkansas-DW	MN00064	North Carolina-	27700
California	2929	North Carolina-	530
Colorado	MN00064	North Dakota	R-036
Connecticut	PH-0256	Ohio-DW	41244
Florida	E87605	Ohio-VAP (170	CL101
Georgia	959	Ohio-VAP (180	CL110
Hawaii	MN00064	Oklahoma	9507
Idaho	MN00064	Oregon- rimary	MN300001
Illinois	200011	Oregon-Second	MN200001
Indiana	C-MN-01	Pennsylvania	68-00563
Iowa	368	Puerto Rico	MN00064
Kansas	E-10167	South Carolina	74003
Kentucky-DW	90062	Tennessee	TN02818
Kentucky-WW	90062	Texas	T104704192
Louisiana-DEQ	AI-84596	Utah	MN00064
Louisiana-DW	MN00064	Vermont	VT-027053137
Maine	MN00064	Virginia	460163
Maryland	322	Washington	C486
Michigan	9909	West Virginia-D	382
Minnesota	027-053-137	West Virginia-D	9952C
Minnesota-Ag	via MN 027-053	Wisconsin	999407970
Minnesota-Petr	1240	Wyoming-UST	via A2LA 2926.
Mississippi	MN00064		

REPORT OF LABORATORY ANALYSIS

Appendix A

Sample Management

WO# : 10584443

10584443

Internal Transfer Chain of Custody

tical
abs.com

[X] Samples Pre-Logged into eCOC.

State Of Origin: WI

Cert. Needed: [X] Yes [ ] No

Workorder: 40235623 **Workorder Name:** 1632 CAROLINE ST

Owner Received Date: 10/21/2021 Results Requested By: 11/11/2021

Report To	Subcontract To
Steven Mleczko Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436	Pace Analytical Minnesota 1700 Elm Street SE Suite 200 Minneapolis, MN 55414 Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: PFAS WI 33	LAB USE ONLY
1	KITCHEN TAP	PS	10/16/2021 15:00	40235623001	Drinking	1	X	001
2								
3								
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1			Cindy Mura PACE	10/21/21 0920
2				
3				

Comments: WI 33 compounds

Cooler Temperature on Receipt 1.8 °C | Custody Seal Y or (N) | Received on Ice (Y) or N | Samples Intact (Y) or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: US Water	Billing Information: same
Address: 6905 Venture Circle	
Report To: Matt Zastrow	Email To: mattz@uswater.com
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: 1632 Caroline St	State: WI / County/City: / Time Zone Collected: [ ] PT [ ] MT [X] CT [ ] ET
Phone: 715-842-2215 / Email: mattz@uswater.com	Site/Facility ID #: / Compliance Monitoring? [ ] Yes [X] No
Collected By (print): Reese Mullen	Purchase Order #: / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature):	Turnaround Date Required: / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [X] No / Analysis: _____

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses

Lab Profile/Line: 6051

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	PFAS	Lab Sample # / Comments
Kitchen Tap	DW	Grab	10-16-21	15:00				2	X	001

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2685562

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 4
Cooler 1 Temp Upon Receipt: 1-8 oC
Cooler 1 Therm Corr. Factor: ____ oC
Cooler 1 Corrected Temp: 1-8 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	10-20-21 16:40	PACE	10/21/21 0920
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 1

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) - MN**	Document Revised: 14Apr2021 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0150 Rev.02**	Pace Analytical Services - **Minneapolis**

Sample Condition Upon Receipt

Client Name: US, Water

Project #: **WO#: 10584443**

PM: AW1 Due Date: 11/11/21

CLIENT: PASI-WI

Courier: ☐Fed Ex ☒UPS ☐USPS ☐Client ☐Pace ☐SpeeDee ☐Commercial

Tracking Number: 1Z 880 715 03 2726 5206 See Exceptions ☐ ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present? ☐Yes ☒No **Seals Intact?** ☐Yes ☒No **Biological Tissue Frozen?** ☐Yes ☐No ☒N/A

Packing Material: ☒Bubble Wrap ☐Bubble Bags ☐None ☐Other:_____ **Temp Blank?** ☒Yes ☐No

Thermometer: ☐T1(0461) ☐T2(1336) ☐T3(0459) ☐OS418-LS ☒T4(0254) ☐T5(0489) ☐160285052 **Type of Ice:** ☒Wet ☒Blue ☐None ☐Dry ☐Melted

Did Samples Originate in West Virginia? ☐Yes ☒No **Were All Container Temps Taken?** ☐Yes ☐No ☒N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 1.8 °C

Correction Factor: true **Cooler Temp Corrected w/temp blank:** 1.8 °C

Average Corrected Temp (no temp blank only): _____ °C ☐See Exceptions ENV-FRM-MIN4-0142 ☐1 Container

USDA Regulated Soil: (☒N/A, water sample/Other:_____)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐Yes ☐No

Date/Initials of Person Examining Contents: KM 10/21/21

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐Yes ☐No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present and Filled Out?	☒Yes	☐No		1.
Chain of Custody Relinquished?	☒Yes	☐No		2.
Sampler Name and/or Signature on COC?	☒Yes	☐No	☐N/A	3.
Samples Arrived within Hold Time?	☒Yes	☐No		4.
Short Hold Time Analysis (<72 hr)?	☐Yes	☒No		5. ☐Fecal Coliform ☐HPC ☐Total Coliform/E coli ☐BOD/cBOD ☐Hex Chrome ☐Turbidity ☐Nitrate ☐Nitrite ☐Orthophos ☐Other_____
Rush Turn Around Time Requested?	☐Yes	☒No		6.
Sufficient Volume?	☒Yes	☐No		7.
Correct Containers Used? -Pace Containers Used?	☒Yes ☒Yes	☐No ☐No		8.
Containers Intact?	☒Yes	☐No		9.
Field Filtered Volume Received for Dissolved Tests?	☐Yes	☐No	☒N/A	10. Is sediment visible in the dissolved container? ☐Yes ☐No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☒Water ☐Soil ☐Oil ☐Other_____	☒Yes	☐No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐ **ENV-FRM-MIN4-0142**
All containers needing acid/base preservation have been checked?	☐Yes	☐No	☒N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☐Yes	☐No	☒N/A	☐ NaOH ☐ HNO_3 ☐ H_2SO_4 ☐Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☒Yes	☐No	☐N/A	Positive for Res. Chlorine? ☐Yes ☐No **pH Paper Lot#** **See Exception** ☐ **ENV-FRM-MIN4-0142**
				Res. Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Extra labels present on soil VOA or WIDRO containers?	☐Yes	☐No	☒N/A	13. **See Exception** ☐ **ENV-FRM-MIN4-0140**
Headspace in VOA Vials (greater than 6mm)?	☐Yes	☐No	☒N/A	
Trip Blank Present?	☐Yes	☐No	☒N/A	14.
Trip Blank Custody Seals Present?	☐Yes	☐No	☒N/A	Pace Trip Blank Lot # (if purchased):_____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted:_____ Date/Time:_____

Comments/Resolution:_____

Project Manager Review: Ashley Williams **Date:** 10/22/21

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by:_____

Pace Analytical Services, LLC
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Reporting Flags

A = Reporting Limit based on signal to noise (EDL)

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

I = Interferencepresent

J = Estimated value

L = Suppressive interference, analyte may be biased low

Nn = Value obtained from additional analysis

P = PCDEInterference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

* = SeeDiscussion

REPORT OF LABORATORY ANALYSIS

Appendix B

Sample Analysis Summary

Pace Analytical Services, LLC
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Sample Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	KITCHEN TAP	Extraction Date	11/02/2021 11:46
Lab Sample ID	40235623001	Total Amount Extracted	253mL
Lab File ID	A211104A_022	Ical ID	211103A03
Matrix	Drinking_Water	CCal File	A211104A_017
Collected	10/16/2021 15:00	Ending CCal File	A211104A_028
Received	10/21/2021 09:20	Blank File	A211104A_019

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	DL (ng/L)	Dil.	CAS No.	Qual.
PFBA	0.48 J	2.0	0.44	0.44	1	375-22-4	
PFPeA	ND	2.0	0.43	0.43	1	2706-90-3	
HFPO-DA	ND	2.0	0.52	0.52	1	13252-13-6	
PFBS	0.49 J	1.7	0.47	0.47	1	375-73-5	
PFHxA	ND	2.0	0.43	0.43	1	307-24-4	
4:2 FTS	ND	1.8	0.55	0.55	1	757124-72-4	
PFPeS	ND	1.9	0.47	0.47	1	2706-91-4	
PFHpA	ND	2.0	0.54	0.54	1	375-85-9	
DONA	ND	1.9	0.51	0.51	1	919005-14-4	
PFHxS	1.2 J	1.8	0.50	0.50	1	355-46-4	
PFOA	ND	2.0	0.58	0.58	1	335-67-1	
6:2 FTS	ND	1.9	0.64	0.64	1	27619-97-2	
PFHpS	ND	1.9	0.41	0.41	1	375-92-8	
PFNA	ND	2.0	0.73	0.73	1	375-95-1	
PFOSAm	ND	2.0	0.81	0.81	1	754-91-6	
PFOS	6.1	1.8	0.54	0.54	1	1763-23-1	
MeFOSA	ND	2.0	0.50	0.50	1	31506-32-8	
PFDA	ND	2.0	0.56	0.56	1	335-76-2	
EtFOSAm	ND	2.0	0.60	0.60	1	4151-50-2	
8:2 FTS	ND	1.9	0.64	0.64	1	39108-34-4	
9-Cl-PF3ON	ND	1.8	0.30	0.30	1	756426-58-1	
PFNS	ND	1.9	0.44	0.44	1	68259-12-1	
PFUnDA	ND	2.0	0.53	0.53	1	2058-94-8	
NMeFOSAA	ND	2.0	0.43	0.43	1	2355-31-9	
NEtFOSAA	ND	2.0	0.55	0.55	1	2991-50-6	
PFDS	ND	1.9	0.44	0.44	1	335-77-3	
PFDOA	ND	2.0	0.48	0.48	1	307-55-1	
MeFOSE	ND	2.0	0.32	0.32	1	24448-09-7	
EtFOSE	ND	2.0	0.49	0.49	1	1691-99-2	
11-Cl-PF3OUdS	ND	1.9	0.43	0.43	1	763051-92-9	
PFTrDA	ND	2.0	0.61	0.61	1	72629-94-8	
PFDoS	ND	1.9	0.45	0.45	1	79780-39-5	
PFTDA	ND	2.0	0.47	0.47	1	376-06-7	

REPORT OF LABORATORY ANALYSIS

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Collected	10/16/2021 15:00	Ending CCal File	A211104A_028
Received	10/21/2021 09:20	Blank File	A211104A_019

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C2_PFHxA	20	20	100	50-150	
13C4_PFOA	20	19	98	50-150	
13C2_PFDA	20	20	102	50-150	
13C4_PFOS	19	20	105	50-150	

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C4_PFBA	20	18	93	50-150	
13C5_PFPeA	20	19	96	50-150	
13C3_PFBS	18	18	101	50-150	
13C2_4:2FTS	18	20	106	50-150	
13C5_PFHxA	20	20	101	50-150	
13C4_PFHpA	20	19	98	50-150	
13C3_PFHxS	19	17	92	50-150	
13C2_6:2FTS	19	18	96	50-150	
13C8_PFOA	20	19	95	50-150	
13C9_PFNA	20	19	95	50-150	
13C8_PFOS	19	18	96	50-150	
13C2_8:2FTS	19	19	99	50-150	
13C6_PFDA	20	19	95	50-150	
d3-MeFOSAA	20	18	91	50-150	
13C8_PFOSA	20	16	83	50-150	
d5-EtFOSAA	20	15	75	50-150	
13C7_PFUdA	20	19	97	50-150	
13C2_PFDoA	20	16	81	50-150	
13C2_PFTeDA	20	16	81	50-150	
13C3_HFPO-DA	20	19	95	50-150	
d7-N-MeFOSE	20	11	57	10-150	
d9-N-EtFOSE	20	11	54	10-150	
d3-N-MeFOSA	20	6.5	33	10-150	
d5-N-EtFOSA	20	6.6	33	10-150	

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Matrix	Drinking_Water	CCal File	A211104A_017
Collected	10/16/2021 15:00	Ending CCal File	A211104A_028
Received	10/21/2021 09:20	Blank File	A211104A_019

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Qualifiers
13C2_PFHxA	N/A	N/A	5.11	5.11	
13C4_PFOA	N/A	N/A	6.05	6.05	
13C2_PFDA	N/A	N/A	6.90	6.91	
13C4_PFOS	N/A	N/A	7.19	7.21	

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Matrix	Drinking_Water	CCal File	A211104A_017
Collected	10/16/2021 15:00	Ending CCal File	A211104A_028
Received	10/21/2021 09:20	Blank File	A211104A_019

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Qualifiers
13C4_PFBA	N/A	N/A	3.68	3.69	
13C5_PFPeA	N/A	N/A	4.54	4.53	
13C3_PFBS	N/A	N/A	5.28	5.29	
13C2_4:2FTS	N/A	N/A	4.90	4.90	
13C5_PFHxA	N/A	N/A	5.11	5.11	
13C4_PFHpA	N/A	N/A	5.60	5.61	
13C3_PFHxS	N/A	N/A	6.31	6.32	
13C2_6:2FTS	N/A	N/A	5.82	5.83	
13C8_PFOA	N/A	N/A	6.05	6.05	
13C9_PFNA	N/A	N/A	6.47	6.48	
13C8_PFOS	N/A	N/A	7.20	7.21	
13C2_8:2FTS	N/A	N/A	6.66	6.67	
13C6_PFDA	N/A	N/A	6.90	6.91	
d3-MeFOSAA	N/A	N/A	6.85	6.86	
13C8_PFOSA	N/A	N/A	8.66	8.66	
d5-EtFOSAA	N/A	N/A	7.05	7.05	
13C7_PFUdA	N/A	N/A	7.32	7.34	
13C2_PFDoA	N/A	N/A	7.75	7.77	
13C2_PFTeDA	N/A	N/A	8.59	8.61	
13C3_HFPO-DA	N/A	N/A	5.31	5.31	
d7-N-MeFOSE	N/A	N/A	10.08	10.14	
d9-N-EtFOSE	N/A	N/A	10.70	10.70	
d3-N-MeFOSA	N/A	N/A	10.32	10.32	
d5-N-EtFOSA	N/A	N/A	11.00	11.01	

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Matrix	Drinking_Water	CCal File	A211104A_017
Collected	10/16/2021 15:00	Ending CCal File	A211104A_028
Received	10/21/2021 09:20	Blank File	A211104A_019

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Qualifiers
PFBA	N/A	N/A	3.68	3.70	J
PFPeA	N/A	N/A	4.54	4.54	
HFPO-DA	0.000	0.430	0.00	5.33	
PFBS	0.410	0.340	5.29	5.29	J
PFHxA	0.000	0.0670	0.00	5.12	
4:2 FTS	0.000	0.580	0.00	4.90	
PFPeS	0.000	0.310	5.84	5.84	
PFHpA	0.000	0.290	0.00	5.61	
DONA	0.000	0.490	0.00	5.78	
PFHxS	0.310	0.240	6.32	6.32	J
PFOA	0.180	0.370	6.05	6.06	
6:2 FTS	0.000	0.450	5.83	5.83	
PFHpS	0.000	0.210	6.77	6.78	
PFNA	0.000	0.200	0.00	6.49	
PFOSAm	N/A	N/A	8.66	8.66	
PFOS	0.140	0.230	7.10	7.17	
MeFOSA	0.000	0.910	0.00	10.34	
PFDA	0.000	0.0910	0.00	6.92	
EtFOSAm	0.000	0.680	0.00	11.03	
8:2 FTS	0.000	0.510	0.00	6.68	
9-Cl-PF3ON	0.000	0.0240	0.00	7.53	
PFNS	0.000	0.230	0.00	7.65	
PFUnDA	0.000	0.100	0.00	7.35	
NMeFOSAA	0.000	0.560	0.00	6.86	
NEtFOSAA	0.000	0.680	0.00	7.10	
PFDS	0.000	0.260	0.00	8.07	
PFDOA	0.000	0.140	0.00	7.77	
MeFOSE	N/A	N/A	0.00	10.12	
EtFOSE	0.000	0.000	0.00	10.76	
11-Cl-PF3OUdS	0.000	0.0130	0.00	8.37	
PFTrDA	0.000	0.160	0.00	8.20	
PFDoS	0.000	0.210	0.00	8.87	
PFTDA	0.000	0.130	0.00	8.61	

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Method Blank Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	BLKLA	Extraction Date	11/02/2021 11:46
Lab Sample ID	BLANK-94205	Total Amount Extracted	262mL
Lab File ID	A211104A_019	Ical ID	211103A03
Matrix	Water	CCal File	A211104A_017
Collected	11/01/2021 20:58	Ending CCal File	A211104A_028
Received	11/01/2021 20:58	Blank File	

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	DL (ng/L)	Dil.	CAS No.	Qual.
PFBA	ND	1.9	0.42	0.42	1	375-22-4	
PFPeA	ND	1.9	0.42	0.42	1	2706-90-3	
HFPO-DA	ND	1.9	0.50	0.50	1	13252-13-6	
PFBS	ND	1.7	0.45	0.45	1	375-73-5	
PFHxA	ND	1.9	0.42	0.42	1	307-24-4	
4:2 FTS	ND	1.8	0.53	0.53	1	757124-72-4	
PFPeS	ND	1.8	0.45	0.45	1	2706-91-4	
PFHpA	ND	1.9	0.52	0.52	1	375-85-9	
DONA	ND	1.8	0.49	0.49	1	919005-14-4	
PFHxS	ND	1.7	0.48	0.48	1	355-46-4	
PFOA	ND	1.9	0.56	0.56	1	335-67-1	
6:2 FTS	ND	1.8	0.62	0.62	1	27619-97-2	
PFHpS	ND	1.8	0.39	0.39	1	375-92-8	
PFNA	ND	1.9	0.71	0.71	1	375-95-1	
PFOSAm	ND	1.9	0.78	0.78	1	754-91-6	
PFOS	ND	1.8	0.52	0.52	1	1763-23-1	
MeFOSA	ND	1.9	0.49	0.49	1	31506-32-8	
PFDA	ND	1.9	0.54	0.54	1	335-76-2	
EtFOSAm	ND	1.9	0.58	0.58	1	4151-50-2	
8:2 FTS	ND	1.8	0.62	0.62	1	39108-34-4	
9-Cl-PF3ON	ND	1.8	0.29	0.29	1	756426-58-1	
PFNS	ND	1.8	0.43	0.43	1	68259-12-1	
PFUnDA	ND	1.9	0.52	0.52	1	2058-94-8	
NMeFOSAA	ND	1.9	0.41	0.41	1	2355-31-9	
NEtFOSAA	ND	1.9	0.53	0.53	1	2991-50-6	
PFDS	ND	1.8	0.43	0.43	1	335-77-3	
PFDOA	ND	1.9	0.46	0.46	1	307-55-1	
MeFOSE	ND	1.9	0.31	0.31	1	24448-09-7	
EtFOSE	ND	1.9	0.47	0.47	1	1691-99-2	
11-Cl-PF3OUdS	ND	1.8	0.42	0.42	1	763051-92-9	
PFTrDA	ND	1.9	0.59	0.59	1	72629-94-8	
PFDoS	ND	1.8	0.44	0.44	1	79780-39-5	
PFTDA	ND	1.9	0.45	0.45	1	376-06-7	

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Method Blank Analysis Summary

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Client Sample ID	BLKLA	Extraction Date	11/02/2021 11:46
Lab Sample ID	BLANK-94205	Total Amount Extracted	262mL
Lab File ID	A211104A_019	Ical ID	211103A03
Matrix	Water	CCal File	A211104A_017
Collected	11/01/2021 20:58	Ending CCal File	A211104A_028
Received	11/01/2021 20:58	Blank File	

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C2_PFHxA	19	20	106	50-150	
13C4_PFOA	19	26	134	50-150	
13C2_PFDA	19	26	135	50-150	
13C4_PFOS	18	14	74	50-150	

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C4_PFBA	19	19	97	50-150	
13C5_PFPeA	19	20	104	50-150	
13C3_PFBS	18	20	114	50-150	
13C2_4:2FTS	18	23	127	50-150	
13C5_PFHxA	19	20	107	50-150	
13C4_PFHpA	19	22	113	50-150	
13C3_PFHxS	18	17	95	50-150	
13C2_6:2FTS	18	28	**154**	50-150	R
13C8_PFOA	19	24	124	50-150	
13C9_PFNA	19	24	127	50-150	
13C8_PFOS	18	11	62	50-150	
13C2_8:2FTS	18	31	**170**	50-150	R
13C6_PFDA	19	23	122	50-150	
d3-MeFOSAA	19	27	142	50-150	
13C8_PFOSA	19	17	91	50-150	
d5-EtFOSAA	19	26	136	50-150	
13C7_PFUdA	19	22	113	50-150	
13C2_PFDoA	19	24	125	50-150	
13C2_PFTeDA	19	26	137	50-150	
13C3_HFPO-DA	19	20	105	50-150	
d7-N-MeFOSE	19	16	85	20-150	
d9-N-EtFOSE	19	16	85	20-150	
d3-N-MeFOSA	19	11	56	20-150	
d5-N-EtFOSA	19	11	56	20-150	

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Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Qualifiers
13C2_PFHxA	N/A	N/A	5.12	5.11	
13C4_PFOA	N/A	N/A	6.05	6.05	
13C2_PFDA	N/A	N/A	6.90	6.91	
13C4_PFOS	N/A	N/A	7.20	7.21	

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Method Blank Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	BLKLA	Extraction Date	11/02/2021 11:46
Lab Sample ID	BLANK-94205	Total Amount Extracted	262mL
Lab File ID	A211104A_019	Ical ID	211103A03
Matrix	Water	CCal File	A211104A_017
Collected	11/01/2021 20:58	Ending CCal File	A211104A_028
Received	11/01/2021 20:58	Blank File	

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Qualifiers
13C4_PFBA	N/A	N/A	3.69	3.69	
13C5_PFPeA	N/A	N/A	4.55	4.53	
13C3_PFBS	N/A	N/A	5.29	5.29	
13C2_4:2FTS	N/A	N/A	4.91	4.90	
13C5_PFHxA	N/A	N/A	5.12	5.11	
13C4_PFHpA	N/A	N/A	5.61	5.61	
13C3_PFHxS	N/A	N/A	6.32	6.32	
13C2_6:2FTS	N/A	N/A	5.83	5.83	R
13C8_PFOA	N/A	N/A	6.05	6.05	
13C9_PFNA	N/A	N/A	6.48	6.48	
13C8_PFOS	N/A	N/A	7.20	7.21	
13C2_8:2FTS	N/A	N/A	6.67	6.67	R
13C6_PFDA	N/A	N/A	6.90	6.91	
d3-MeFOSAA	N/A	N/A	6.85	6.86	
13C8_PFOSA	N/A	N/A	8.66	8.66	
d5-EtFOSAA	N/A	N/A	7.05	7.05	
13C7_PFUdA	N/A	N/A	7.33	7.34	
13C2_PFDoA	N/A	N/A	7.76	7.77	
13C2_PFTeDA	N/A	N/A	8.59	8.61	
13C3_HFPO-DA	N/A	N/A	5.32	5.31	
d7-N-MeFOSE	N/A	N/A	10.09	10.14	
d9-N-EtFOSE	N/A	N/A	10.71	10.70	
d3-N-MeFOSA	N/A	N/A	10.33	10.32	
d5-N-EtFOSA	N/A	N/A	11.01	11.01	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Method Blank Analysis Summary

PFAS by Isotope Dilution

Client Sample ID	BLKLA	Extraction Date	11/02/2021 11:46
Lab Sample ID	BLANK-94205	Total Amount Extracted	262mL
Lab File ID	A211104A_019	Ical ID	211103A03
Matrix	Water	CCal File	A211104A_017
Collected	11/01/2021 20:58	Ending CCal File	A211104A_028
Received	11/01/2021 20:58	Blank File	

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Qualifiers
PFBA	N/A	N/A	3.69	3.70	
PFPeA	N/A	N/A	4.55	4.54	
HFPO-DA	0.000	0.430	0.00	5.33	
PFBS	0.420	0.340	5.30	5.29	
PFHxA	0.000	0.0670	5.13	5.12	
4:2 FTS	0.000	0.580	5.10	4.90	
PFPeS	0.000	0.310	5.84	5.84	
PFHpA	0.000	0.290	5.62	5.61	
DONA	0.000	0.490	0.00	5.78	
PFHxS	0.370	0.240	6.32	6.32	
PFOA	0.150	0.370	6.05	6.06	
6:2 FTS	0.000	0.450	5.83	5.83	
PFHpS	0.000	0.210	0.00	6.78	
PFNA	0.000	0.200	6.48	6.49	
PFOSAm	N/A	N/A	8.67	8.66	
PFOS	0.360	0.230	7.21	7.17	
MeFOSA	0.000	0.910	0.00	10.34	
PFDA	0.000	0.0910	0.00	6.92	
EtFOSAm	0.000	0.680	0.00	11.03	
8:2 FTS	0.000	0.510	0.00	6.68	
9-Cl-PF3ON	0.000	0.0240	0.00	7.53	
PFNS	0.000	0.230	0.00	7.65	
PFUnDA	0.000	0.100	0.00	7.35	
NMeFOSAA	0.000	0.560	0.00	6.86	
NEtFOSAA	0.000	0.680	0.00	7.10	
PFDS	0.000	0.260	0.00	8.07	
PFDOA	0.000	0.140	0.00	7.77	
MeFOSE	N/A	N/A	0.00	10.12	
EtFOSE	0.000	0.000	0.00	10.76	
11-Cl-PF3OUdS	0.000	0.0130	0.00	8.37	
PFTrDA	0.000	0.160	0.00	8.20	
PFDoS	0.000	0.210	0.00	8.87	
PFTDA	0.000	0.130	0.00	8.61	

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary

PFAS by Isotope Dilution

Lab Sample ID	LCS-94206	Instrument ID	10LCMS03
Run File Name	A211105A_022	Column ID	118AB10133
Analyzed	11/05/2021 15:50	Ical ID	211103A03
Injected By	NH	Level	L

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C2_PFHxA	20	23	117	50-150	
13C4_PFOA	20	23	117	50-150	
13C2_PFDA	20	25	128	50-150	
13C4_PFOS	19	22	118	50-150	

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C4_PFBA	20	20	100	50-150	
13C5_PFPeA	20	20	104	50-150	
13C3_PFBS	18	19	106	50-150	
13C2_4:2FTS	18	20	111	50-150	
13C5_PFHxA	20	21	109	50-150	
13C4_PFHpA	20	21	104	50-150	
13C3_PFHxS	19	19	103	50-150	
13C2_6:2FTS	19	20	108	50-150	
13C8_PFOA	20	20	103	50-150	
13C9_PFNA	20	21	104	50-150	
13C8_PFOS	19	19	99	50-150	
13C2_8:2FTS	19	20	107	50-150	
13C6_PFDA	20	20	104	50-150	
d3-MeFOSAA	20	15	75	50-150	
13C8_PFOSA	20	15	79	50-150	
d5-EtFOSAA	20	13	68	50-150	
13C7_PFUdA	20	18	89	50-150	
13C2_PFDoA	20	16	83	50-150	
13C2_PFTeDA	20	16	82	50-150	
13C3_HFPO-DA	20	21	104	50-150	
d7-N-MeFOSE	20	15	75	20-150	
d9-N-EtFOSE	20	15	76	20-150	
d3-N-MeFOSA	20	9.2	46	20-150	
d5-N-EtFOSA	20	8.9	45	20-150	

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LCS Analysis Summary

PFAS by Isotope Dilution

Lab Sample ID	LCS-94206	Instrument ID	10LCMS03
Run File Name	A211105A_022	Column ID	118AB10133
Analyzed	11/05/2021 15:50	Ical ID	211103A03
Injected By	NH	Level	L

Native Analytes

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	3.9	4.4	112	50-150		375-22-4
PFPeA	3.9	4.4	111	50-150		2706-90-3
HFPO-DA	3.9	4.4	113	50-150		13252-13-6
PFBS	3.5	4.1	117	50-150		375-73-5
PFHxA	3.9	4.5	113	50-150		307-24-4
4:2 FTS	3.7	3.9	105	50-150		757124-72-4
PFPeS	3.7	3.7	101	50-150		2706-91-4
PFHpA	3.9	4.2	107	50-150		375-85-9
DONA	3.7	4.3	115	50-150		919005-14-4
PFHxS	3.6	3.8	106	50-150		355-46-4
PFOA	3.9	4.6	116	50-150		335-67-1
6:2 FTS	3.7	4.4	119	50-150		27619-97-2
PFHpS	3.7	4.0	106	50-150		375-92-8
PFNA	3.9	4.2	106	50-150		375-95-1
PFOSAm	3.9	4.4	110	50-150		754-91-6
PFOS	3.6	4.3	117	50-150		1763-23-1
MeFOSA	3.9	4.2	108	50-150		31506-32-8
PFDA	3.9	3.9	99	50-150		335-76-2
EtFOSAm	3.9	4.2	107	50-150		4151-50-2
8:2 FTS	3.8	4.5	120	50-150		39108-34-4
9-Cl-PF3ON	3.7	3.7	100	50-150		756426-58-1
PFNS	3.8	3.7	97	50-150		68259-12-1
PFUnDA	3.9	4.4	111	50-150		2058-94-8
NMeFOSAA	3.9	4.5	115	50-150		2355-31-9
NEtFOSAA	3.9	3.9	99	50-150		2991-50-6
PFDS	3.8	3.5	92	50-150		335-77-3
PFDOA	3.9	4.2	106	50-150		307-55-1
MeFOSE	3.9	4.1	104	50-150		24448-09-7
EtFOSE	3.9	4.0	101	50-150		1691-99-2
11-Cl-PF3OUdS	3.7	3.5	94	50-150		763051-92-9
PFTrDA	3.9	4.2	106	50-150		72629-94-8
PFDoS	3.8	3.7	97	50-150		79780-39-5
PFTDA	3.9	4.5	115	50-150		376-06-7

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LCS Analysis Summary

PFAS by Isotope Dilution

Lab Sample ID	LCS-94206	Instrument ID	10LCMS03
Run File Name	A211105A_022	Column ID	118AB10133
Analyzed	11/05/2021 15:50	Ical ID	211103A03
Injected By	NH	Level	L

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Qualifiers
13C2_PFHxA	N/A	N/A	5.12	5.11	
13C4_PFOA	N/A	N/A	6.06	6.05	
13C2_PFDA	N/A	N/A	6.91	6.91	
13C4_PFOS	N/A	N/A	7.20	7.21	

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Qualifiers
13C4_PFBA	N/A	N/A	3.69	3.69	
13C5_PFPeA	N/A	N/A	4.55	4.53	
13C3_PFBS	N/A	N/A	5.30	5.29	
13C2_4:2FTS	N/A	N/A	4.92	4.90	
13C5_PFHxA	N/A	N/A	5.13	5.11	
13C4_PFHpA	N/A	N/A	5.61	5.61	
13C3_PFHxS	N/A	N/A	6.32	6.32	
13C2_6:2FTS	N/A	N/A	5.84	5.83	
13C8_PFOA	N/A	N/A	6.06	6.05	
13C9_PFNA	N/A	N/A	6.48	6.48	
13C8_PFOS	N/A	N/A	7.21	7.21	
13C2_8:2FTS	N/A	N/A	6.67	6.67	
13C6_PFDA	N/A	N/A	6.91	6.91	
d3-MeFOSAA	N/A	N/A	6.86	6.86	
13C8_PFOSA	N/A	N/A	8.67	8.66	
d5-EtFOSAA	N/A	N/A	7.06	7.05	
13C7_PFUdA	N/A	N/A	7.34	7.34	
13C2_PFDoA	N/A	N/A	7.76	7.77	
13C2_PFTeDA	N/A	N/A	8.60	8.61	
13C3_HFPO-DA	N/A	N/A	5.32	5.31	
d7-N-MeFOSE	N/A	N/A	10.10	10.14	
d9-N-EtFOSE	N/A	N/A	10.71	10.70	
d3-N-MeFOSA	N/A	N/A	10.33	10.32	
d5-N-EtFOSA	N/A	N/A	11.01	11.01	

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LCS Analysis Summary

PFAS by Isotope Dilution

Lab Sample ID	LCS-94206	Instrument ID	10LCMS03
Run File Name	A211105A_022	Column ID	118AB10133
Analyzed	11/05/2021 15:50	Ical ID	211103A03
Injected By	NH	Level	L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Qualifiers
PFBA	N/A	N/A	3.70	3.70	
PFPeA	N/A	N/A	4.55	4.54	
HFPO-DA	0.45	0.45	5.34	5.33	
PFBS	0.34	0.33	5.30	5.29	
PFHxA	0.05	0.05	5.13	5.12	
4:2 FTS	0.58	0.55	4.92	4.90	
PFPeS	0.31	0.31	5.85	5.84	
PFHpA	0.29	0.30	5.62	5.61	
DONA	0.48	0.49	5.78	5.78	
PFHxS	0.26	0.28	6.33	6.32	
PFOA	0.35	0.40	6.06	6.06	
6:2 FTS	0.53	0.47	5.84	5.83	
PFHpS	0.24	0.21	6.78	6.78	
PFNA	0.19	0.20	6.49	6.49	
PFOSAm	N/A	N/A	8.67	8.66	
PFOS	0.21	0.22	7.21	7.17	
MeFOSA	0.84	0.89	10.35	10.34	
PFDA	0.09	0.08	6.91	6.92	
EtFOSAm	0.70	0.69	11.04	11.03	
8:2 FTS	0.57	0.61	6.68	6.68	
9-Cl-PF3ON	0.02	0.02	7.52	7.53	
PFNS	0.23	0.24	7.64	7.65	
PFUnDA	0.11	0.09	7.34	7.35	
NMeFOSAA	0.50	0.50	6.87	6.86	
NEtFOSAA	0.71	0.71	7.07	7.10	
PFDS	0.21	0.24	8.06	8.07	
PFDOA	0.14	0.13	7.77	7.77	
MeFOSE	N/A	N/A	10.14	10.12	
EtFOSE	0.00	0.00	10.77	10.76	
11-Cl-PF3OUdS	0.01	0.01	8.36	8.37	
PFTrDA	0.15	0.14	8.19	8.20	
PFDoS	0.23	0.21	8.86	8.87	
PFTDA	0.12	0.13	8.60	8.61	

REPORT OF LABORATORY ANALYSIS

Private Well Sample Results
2222 Bainbridge St

444 21st Street South · La Crosse, Wisconsin · 54601

July 23, 2021

David Rozeboom
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
Eau Claire Regional Office
1300 W. Clairemont Ave.
Eau Claire, WI 54701

RE: Private Well Sampling Results – 2222 Bainbridge Street
La Crosse Airport PFAS Investigation
2850 Airport Dr, French Island, La Crosse, WI
WDNR BRRTS Activity # 02-32-587347

Dear Mr. Rozeboom:

Please find attached the private well sampling results lab report and letters to the owners and occupants, for the above referenced residence. We are also submitting the corresponding EQUIS files.

Please call me with any question you may have.

Sincerely,

John C. Storlie, PG
Coulee Environmental Solutions™
A division of The OS Group, LLC
444 21st Street South
La Crosse, Wisconsin 54601
608.433.9389 – Direct
E-Mail Address: John.Storlie@theOSgrp.com

Attachments:

- Letter to owners
- Letter to occupant
- Lab report
- EQUIS files

cc: Mayor Reynolds
Stephen Matty, City Attorney

444 21st Street South · La Crosse, Wisconsin · 54601

July 21, 2021

[redacted]
N19332 Ziegler Lane
Trempealeau, WI 54661

Subject: Private Well Sampling Results
2222 BAINBRIDGE ST, La Crosse, WI 54603
Tax Parcel #4-150-0
Sampling Point #150-0
Sample Date: 06/22/21

Dear [redacted]

We have received and reviewed the test results for the sample collected at the above address. Some PFAS compounds were found, but the levels found were ***below*** the Department of Health Services (DHS) levels recommended for protecting health. These levels are called the "Recommended Public Health Standard" in the table below. The levels found in *your* well are called the "Sample Result" in the table below.

Sample Results

Compound	Sample Result (unit)	Recommended Public Health Standard (unit [e])	
N-Ethyl Perfluorooctane sulfonamide (NEtFOSA) CAS # 4151-50-2	Not Detected	20 ppt [a,b]	The recommended limit is 20 ppt for any *one* of these 6 compounds or the *combined total* of all 6
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA) CAS # 2991-50-6	Not Detected	20 ppt [a,b]	
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE) CAS # 1691-99-2	Not Detected	20 ppt [a,b]	
Perfluorooctane sulfonamide (PFOSA) CAS # 754-91-6	Not Detected	20 ppt [a,b]	
Perfluorooctanoic acid (PFOA) CAS # 335-67-1	Not Detected	20 ppt [a,b]	
Perfluorooctanesulfonic acid (PFOS) CAS # 1763-23-1	Not Detected	20 ppt [a,b]	

Private Well Sampling Results for
2222 BAINBRIDGE ST, La Crosse, WI 54603
Tax Parcel #4-150-0
Sampling Point #150-0
July 21, 2021

Compound	Sample Result (unit)	Recommended Public Health Standard (unit [e])
Hexafluoropropylene oxide dimer acid (HPFO-DA; GenX) CAS # 13252-13-6	Not Detected	300 ppt [a]
Perfluorobutanesulfonic acid (PFBS) CAS # 375-73-5	2.5 ppt	450,000 ppt [a]
Perfluorohexanesulfonic acid (PFHxS) CAS # 355-46-4	2.1 ppt	40 ppt [a]
Perfluorobutanoic acid (PFBA) CAS # 375-22-4	2.7 ppt	10,000 ppt [a]
Perfluorodecanoic acid (PFDA) CAS # 335-76-2	Not Detected	300 ppt [a]
Perfluorododecanoic acid (PFDoA) CAS # 307-55-1	Not Detected	500 ppt [a]
Perfluorohexanoic acid (PFHxA) CAS # 307-24-4	Not Detected	150,000 ppt [a]
Perfluorononanoic acid (PFNA) CAS # 375-95-1	Not Detected	30 ppt [a]
Perfluorotetradecanoic acid (PFTeA) CAS # 376-06-7	Not Detected	10,000 ppt [a]
Perfluoroundecanoic acid (PFUnA) CAS # 2058-94-8	Not Detected	3,000 ppt [a]
4,8-Dioxa-3H-perfluorononanoic acid (DONA) CAS # 919005-14-4	Not Detected	3,000 ppt [a]
Perfluorooctadecanoic acid (PFODA) CAS # 16517-11-6	Not Detected	400,000 ppt [a]
Perfluoro-1-pentanesulfonic acid (PFPeS) CAS #2706-91-4	0.90 ppt	None Established[c]

[a] Public health enforcement standard (ES) recommended by DHS.
[b] DHS recommends a combined enforcement standard of 20 ng/L and combined preventive action limit of 2 ng/L for FOSA, NEt-FOSE, NEt-FOSA, NetFOSAA, PFOS, and PFOA.
[c] A current standard is not available; the compound is currently under review by DHS for potential public health standard recommendation.
[d] Public health enforcement standard (ES) in NR 140, Wisconsin Administrative Code.
[e] Units: Parts per trillion (ppt) = nanograms of substance per liter of water (ng/L)
[BL] Detected in the method blank. Possible lab contaminant.

As required by law, we will be submitting these results to the Department of Natural Resources (DNR). The DNR may consult with the Department of Health Services (DHS) about these test results. *DHS may review all PFAS tests and follow-up with you directly if any actions are recommended to protect your health.*

Thank you for your patience and assistance with our investigation. We will provide updates on the project at https://www.cityoflacrosse.org/wells as our work continues. If you have any questions, please call The OS Group at (608) 668-2718 or email them at PFAS@theOSgrp.com.

You can also contact the DNR and DHS with questions about PFAS or the water sample results at the numbers provided below.

Questions about…	**Contact**	**Phone**	**E-mail Address**
Soil & Groundwater Testing, Clean Up DNR	David Rozeboom	715-215-2078	David.Rozeboom@wisconsin.gov
Drinking Water or Private wells DNR	Kyle Burton	920-360-2112	kyle.burton@wisconsin.gov
Health Concerns DHS	Curtis Hedman	608-266-6677	Curtis.Hedman@dhs.wisconsin.gov

On behalf of The City of La Crosse
The OS Group, LLC

Attachment: Lab report for your well

444 21st Street South · La Crosse, Wisconsin · 54601

July 21, 2021

[redacted]
2222 BAINBRIDGE ST
La Crosse, WI 54603

Subject: Private Well Sampling Results
2222 BAINBRIDGE ST, La Crosse, WI 54603
Tax Parcel #4-150-0
Sampling Point #150-0
Sample Date: 06/22/21

Dear [redacted]:

We have received and reviewed the test results for the sample collected at the above address. Some PFAS compounds were found, but the levels found were ***below*** the Department of Health Services (DHS) levels recommended for protecting health. These levels are called the "Recommended Public Health Standard" in the table below. The levels found in *your* well are called the "Sample Result" in the table below.

Sample Results

Compound	Sample Result (unit)	Recommended Public Health Standard (unit [e])	
N-Ethyl Perfluorooctane sulfonamide (NEtFOSA) CAS # 4151-50-2	Not Detected	20 ppt [a,b]	The recommended limit is 20 ppt for any *one* of these 6 compounds or the *combined total* of all 6
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA) CAS # 2991-50-6	Not Detected	20 ppt [a,b]	
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE) CAS # 1691-99-2	Not Detected	20 ppt [a,b]	
Perfluorooctane sulfonamide (PFOSA) CAS # 754-91-6	Not Detected	20 ppt [a,b]	
Perfluorooctanoic acid (PFOA) CAS # 335-67-1	Not Detected	20 ppt [a,b]	
Perfluorooctanesulfonic acid (PFOS) CAS # 1763-23-1	Not Detected	20 ppt [a,b]	

Private Well Sampling Results for
2222 BAINBRIDGE ST, La Crosse, WI 54603
Tax Parcel #4-150-0
Sampling Point #150-0
July 21, 2021

Compound	Sample Result (unit)	Recommended Public Health Standard (unit [e])
Hexafluoropropylene oxide dimer acid (HPFO-DA; GenX) CAS # 13252-13-6	Not Detected	300 ppt [a]
Perfluorobutanesulfonic acid (PFBS) CAS # 375-73-5	2.5 ppt	450,000 ppt [a]
Perfluorohexanesulfonic acid (PFHxS) CAS # 355-46-4	2.1 ppt	40 ppt [a]
Perfluorobutanoic acid (PFBA) CAS # 375-22-4	2.7 ppt	10,000 ppt [a]
Perfluorodecanoic acid (PFDA) CAS # 335-76-2	Not Detected	300 ppt [a]
Perfluorododecanoic acid (PFDoA) CAS # 307-55-1	Not Detected	500 ppt [a]
Perfluorohexanoic acid (PFHxA) CAS # 307-24-4	Not Detected	150,000 ppt [a]
Perfluorononanoic acid (PFNA) CAS # 375-95-1	Not Detected	30 ppt [a]
Perfluorotetradecanoic acid (PFTeA) CAS # 376-06-7	Not Detected	10,000 ppt [a]
Perfluoroundecanoic acid (PFUnA) CAS # 2058-94-8	Not Detected	3,000 ppt [a]
4,8-Dioxa-3H-perfluorononanoic acid (DONA) CAS # 919005-14-4	Not Detected	3,000 ppt [a]
Perfluorooctadecanoic acid (PFODA) CAS # 16517-11-6	Not Detected	400,000 ppt [a]
Perfluoro-1-pentanesulfonic acid (PFPeS) CAS #2706-91-4	0.90 ppt	None Established[c]

[a] Public health enforcement standard (ES) recommended by DHS.
[b] DHS recommends a combined enforcement standard of 20 ng/L and combined preventive action limit of 2 ng/L for FOSA, NEt-FOSE, NEt-FOSA, NetFOSAA, PFOS, and PFOA.
[c] A current standard is not available; the compound is currently under review by DHS for potential public health standard recommendation.
[d] Public health enforcement standard (ES) in NR 140, Wisconsin Administrative Code.
[e] Units: Parts per trillion (ppt) = nanograms of substance per liter of water (ng/L)
[BL] Detected in the method blank. Possible lab contaminant.

Private Well Sampling Results for
2222 BAINBRIDGE ST, La Crosse, WI 54603
Tax Parcel #4-150-0
Sampling Point #150-0
July 21, 2021

As required by law, we will be submitting these results to the Department of Natural Resources (DNR). The DNR may consult with the Department of Health Services (DHS) about these test results. *DHS may review all PFAS tests and follow-up with you directly if any actions are recommended to protect your health.*

Thank you for your patience and assistance with our investigation. We will provide updates on the project at https://www.cityoflacrosse.org/wells as our work continues. If you have any questions, please call The OS Group at (608) 668-2718 or email them at PFAS@theOSgrp.com.

You can also contact the DNR and DHS with questions about PFAS or the water sample results at the numbers provided below.

Questions about…	**Contact**	**Phone**	**E-mail Address**
Soil & Groundwater Testing, Clean Up DNR	David Rozeboom	715-215-2078	David.Rozeboom@wisconsin.gov
Drinking Water or Private wells DNR	Kyle Burton	920-360-2112	kyle.burton@wisconsin.gov
Health Concerns DHS	Curtis Hedman	608-266-6677	Curtis.Hedman@dhs.wisconsin.gov

On behalf of The City of La Crosse
The OS Group, LLC

Attachment: Lab report for your well

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

July 21, 2021

Steve Osesek
The OS Group, LLC
N6746 McCurdy Road
Holmen, WI 54636

RE: Project: LACROSSE WELLS 23 & 24
Pace Project No.: 40228884

Dear Steve Osesek:

Enclosed are the analytical results for sample(s) received by the laboratory on June 23, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: John Storlie, The OS Group, LLC

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: LACROSSE WELLS 23 & 24
Pace Project No.: 40228884

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40228884001	**150-0**	Water	06/22/21 13:23	06/23/21 11:30

REPORT OF LABORATORY ANALYSIS

(Please Print Clearly)

Company Name:	The OS Group LLC
Branch/Location:	LaCrosse WI
Project Contact:	Steven Osesek
Phone:	608-433-9388
Project Number:	-
Project Name:	LACROSSE WELLS 23 & 24
Project State:	WI
Sampled By (Print):	Steven Osesek
Sampled By (Sign):	Steven Osesek
PO #:	-
Regulatory Program:	WDNR

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page of

COC No. 40228884

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	-
Mail To Contact:	Steven Osesek
Mail To Company:	The OS Group LLC
Mail To Address:	444 21st St S LaCrosse, WI 54601
Invoice To Contact:	Steven Osesek
Invoice To Company:	The OS Group LLC
Invoice To Address:	444 21st St S LaCrosse, WI 54601
Invoice To Phone:	608-433-9388

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
Sl = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) PRESERVATION (CODE)* Y/N	Pick Letter	Analyses Requested: WI 36 PFAS by ID	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile # 4532
001	150-0	6-22	1:23	DW		X				

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Steven Osesek	6/22/21 1:45		
Fedex	6/23/21 1130		

PACE Project No. 40228884

Receipt Temp = 4 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: DS Group Project # 40228884

All containers needing preservation have been checked and noted below: □Yes □No □N/A Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

	Glass							Plastic					Vials						Jars				General							
Pace Lab #	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001										2																							2.5 / 5 / 10
002																																	2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
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017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other:_____ Headspace in VOA Vials (>6mm) : □Yes □No □N/A ***If yes look in headspace column**

AG1U	1 liter amber glass
BG1U	1 liter clear glass
AG1H	1 liter amber glass HCL
AG4S	125 mL amber glass H2SO4
AG4U	120 mL amber glass unpres
AG5U	100 mL amber glass unpres
AG2S	500 mL amber glass H2SO4
BG3U	250 mL clear glass unpres

BP1U	1 liter plastic unpres
BP3U	250 mL plastic unpres
BP3B	250 mL plastic NaOH
BP3N	250 mL plastic HNO3
BP3S	250 mL plastic H2SO4

VG9A	40 mL clear ascorbic
DG9T	40 mL amber Na Thio
VG9U	40 mL clear vial unpres
VG9H	40 mL clear vial HCL
VG9M	40 mL clear vial MeOH
VG9D	40 mL clear vial DI

JGFU	4 oz amber jar unpres
JG9U	9 oz amber jar unpres
WGFU	4 oz clear jar unpres
WPFU	4 oz plastic jar unpres
SP5T	120 mL plastic Na Thiosulfate
ZPLC	ziploc bag
GN	

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 26Mar2020
	Document No.: **ENV-FRM-GBAY-0014-Rev.00**	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40228884

40228884

Client Name: QS Group

Courier: ☐ CS Logistics ☑ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 2 806 7495 9497

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Thermometer Used SR - 110 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 4 /Corr: 4

Person examining contents:

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Date: 4/23/21 /Initials: AB

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Labeled By Initials: SRK

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. pg# 04/23/21
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

Page 2 of 2

Report of Analysis

Pace Analytical Services, LLC
1241 Bellevue Street
Suite 9
Green Bay, WI 54302
Attention: Christopher Hyska

Project Name: LACROSSE WELLS 23 & 24

Project Number: 40228884

Lot Number:**WF25067**

Date Completed:07/19/2021

07/20/2021 5:28 PM
Approved and released by:
Project Manager II: **Karen L. Coonan**

Case Narrative
Pace Analytical Services, LLC
Lot Number: WF25067

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

Sample Summary
Pace Analytical Services, LLC
Lot Number: WF25067
Project Name: LACROSSE WELLS 23 & 24
Project Number: 40228884

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	150-0	Aqueous	06/22/2021 1323	06/24/2021

(1 sample)

Detection Summary

Pace Analytical Services, LLC

Lot Number: WF25067

Project Name: LACROSSE WELLS 23 & 24

Project Number: 40228884

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	150-0	Aqueous	PFBS	PFAS by ID	2.5	J	ng/L	5
001	150-0	Aqueous	PFPeS	PFAS by ID	0.90	J	ng/L	5
001	150-0	Aqueous	PFHxS	PFAS by ID	2.1	J	ng/L	5
001	150-0	Aqueous	PFBA	PFAS by ID	2.7	J	ng/L	5

(4 detections)

PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WF25067-001**

Description: **150-0** Matrix: **Aqueous**

Date Sampled: **06/22/2021 1323** Project Name: **LACROSSE WELLS 23 & 24**

Date Received: **06/24/2021** Project Number: **40228884**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	07/12/2021 1240	MMM	07/09/2021 1735	98431

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		7.1	0.43	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		7.1	0.59	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		7.1	1.4	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		7.1	1.8	ng/L	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		7.1	1.1	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		7.1	0.78	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		7.1	1.8	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		7.1	0.43	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		7.1	1.2	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		7.1	0.67	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		7.1	0.85	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		14	1.1	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		7.1	0.83	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		7.1	1.1	ng/L	1
Perfluoro-1-butanesulfonic acid (PFBS)	**375-73-5**	**PFAS by ID SOP**	**2.5**	**J**	**3.6**	**0.37**	**ng/L**	**1**
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.6	0.69	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.6	0.44	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.6	0.63	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.6	0.55	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	**2706-91-4**	**PFAS by ID SOP**	**0.90**	**J**	**3.6**	**0.53**	**ng/L**	**1**
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		7.1	0.93	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	**355-46-4**	**PFAS by ID SOP**	**2.1**	**J**	**3.6**	**0.49**	**ng/L**	**1**
Perfluoro-n-butanoic acid (PFBA)	**375-22-4**	**PFAS by ID SOP**	**2.7**	**J**	**3.6**	**0.53**	**ng/L**	**1**
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.6	0.47	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.6	0.42	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		3.6	0.40	ng/L	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		7.1	0.73	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		3.6	0.61	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.6	0.41	ng/L	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		7.1	0.89	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		3.6	0.74	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		3.6	0.48	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.6	0.53	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.6	0.47	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.6	0.56	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		3.6	1.8	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		92	25-150
13C2_6:2FTS		94	25-150
13C2_8:2FTS		88	25-150
13C2_PFDoA		92	25-150
13C2_PFHxDA		87	25-150
13C2_PFTeDA		91	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC** Laboratory ID: **WF25067-001**

Description: **150-0** Matrix: **Aqueous**

Date Sampled: **06/22/2021 1323** Project Name: **LACROSSE WELLS 23 & 24**

Date Received: **06/24/2021** Project Number: **40228884**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBS		89	25-150
13C3_PFHxS		90	25-150
13C3-HFPO-DA		94	25-150
13C4_PFBA		94	25-150
13C4_PFHpA		91	25-150
13C5_PFHxA		84	25-150
13C5_PFPeA		95	25-150
13C6_PFDA		84	25-150
13C7_PFUdA		92	25-150
13C8_PFOA		93	25-150
13C8_PFOS		84	25-150
13C8_PFOSA		89	10-150
13C9_PFNA		89	25-150
d-EtFOSA		87	10-150
d5-EtFOSAA		83	25-150
d9-EtFOSE		98	10-150
d-MeFOSA		82	10-150
d3-MeFOSAA		88	25-150
d7-MeFOSE		92	10-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

QC Summary

PFAS by LC/MS/MS - MB

Sample ID: WQ98431-001
Batch: 98431
Analytical Method: PFAS by ID SOP
Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 07/09/2021 1735

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
9Cl-PF3ONS	ND		1	8.0	0.48	ng/L	07/12/2021 1147
11Cl-PF3OUdS	ND		1	8.0	0.66	ng/L	07/12/2021 1147
8:2 FTS	ND		1	8.0	1.6	ng/L	07/12/2021 1147
6:2 FTS	ND		1	8.0	2.0	ng/L	07/12/2021 1147
10:2 FTS	ND		1	8.0	1.2	ng/L	07/12/2021 1147
4:2 FTS	ND		1	8.0	0.87	ng/L	07/12/2021 1147
GenX	ND		1	8.0	2.1	ng/L	07/12/2021 1147
ADONA	ND		1	8.0	0.48	ng/L	07/12/2021 1147
EtFOSA	ND		1	8.0	1.4	ng/L	07/12/2021 1147
EtFOSAA	ND		1	8.0	0.75	ng/L	07/12/2021 1147
EtFOSE	ND		1	8.0	0.95	ng/L	07/12/2021 1147
MeFOSA	ND		1	16	1.3	ng/L	07/12/2021 1147
MeFOSAA	ND		1	8.0	0.93	ng/L	07/12/2021 1147
MeFOSE	ND		1	8.0	1.3	ng/L	07/12/2021 1147
PFBS	ND		1	4.0	0.41	ng/L	07/12/2021 1147
PFDS	ND		1	4.0	0.78	ng/L	07/12/2021 1147
PFHpS	ND		1	4.0	0.50	ng/L	07/12/2021 1147
PFNS	ND		1	4.0	0.71	ng/L	07/12/2021 1147
PFOSA	ND		1	4.0	0.61	ng/L	07/12/2021 1147
PFPeS	ND		1	4.0	0.59	ng/L	07/12/2021 1147
PFDOS	ND		1	8.0	1.0	ng/L	07/12/2021 1147
PFHxS	ND		1	4.0	0.55	ng/L	07/12/2021 1147
PFBA	ND		1	4.0	0.60	ng/L	07/12/2021 1147
PFDA	ND		1	4.0	0.52	ng/L	07/12/2021 1147
PFDoA	ND		1	4.0	0.47	ng/L	07/12/2021 1147
PFHpA	ND		1	4.0	0.45	ng/L	07/12/2021 1147
PFHxDA	ND		1	8.0	0.82	ng/L	07/12/2021 1147
PFHxA	ND		1	4.0	0.69	ng/L	07/12/2021 1147
PFNA	ND		1	4.0	0.46	ng/L	07/12/2021 1147
PFODA	ND		1	8.0	1.0	ng/L	07/12/2021 1147
PFOA	ND		1	4.0	0.83	ng/L	07/12/2021 1147
PFPeA	ND		1	4.0	0.54	ng/L	07/12/2021 1147
PFTeDA	ND		1	4.0	0.60	ng/L	07/12/2021 1147
PFTrDA	ND		1	4.0	0.53	ng/L	07/12/2021 1147
PFUdA	ND		1	4.0	0.63	ng/L	07/12/2021 1147
PFOS	ND		1	4.0	2.0	ng/L	07/12/2021 1147

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		84	25-150
13C2_6:2FTS		122	25-150
13C2_8:2FTS		101	25-150
13C2_PFDoA		86	25-150
13C2_PFHxDA		43	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: WQ98431-001
Batch: 98431
Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 07/09/2021 1735

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFTeDA		63	25-150
13C3_PFBS		87	25-150
13C3_PFHxS		87	25-150
13C3-HFPO-DA		86	25-150
13C4_PFBA		90	25-150
13C4_PFHpA		90	25-150
13C5_PFHxA		87	25-150
13C5_PFPeA		93	25-150
13C6_PFDA		88	25-150
13C7_PFUdA		89	25-150
13C8_PFOA		97	25-150
13C8_PFOS		84	25-150
13C8_PFOSA		84	10-150
13C9_PFNA		95	25-150
d-EtFOSA		72	10-150
d5-EtFOSAA		89	25-150
d9-EtFOSE		85	10-150
d-MeFOSA		66	10-150
d3-MeFOSAA		88	25-150
d7-MeFOSE		97	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: WQ98431-002
Batch: 98431
Analytical Method: PFAS by ID SOP
Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 07/09/2021 1735

Parameter	Spike Amount (ng/L)	Result (ng/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
9Cl-PF3ONS	15	15		1	102	50-150	07/12/2021 1158
11Cl-PF3OUdS	15	16		1	103	50-150	07/12/2021 1158
8:2 FTS	15	16		1	106	50-150	07/12/2021 1158
6:2 FTS	15	14		1	95	50-150	07/12/2021 1158
10:2 FTS	15	15		1	99	50-150	07/12/2021 1158
4:2 FTS	15	16		1	108	50-150	07/12/2021 1158
GenX	32	34		1	108	50-150	07/12/2021 1158
ADONA	15	17		1	111	50-150	07/12/2021 1158
EtFOSA	16	21		1	130	50-150	07/12/2021 1158
EtFOSAA	16	16		1	98	50-150	07/12/2021 1158
EtFOSE	16	16		1	101	50-150	07/12/2021 1158
MeFOSA	16	19		1	119	50-150	07/12/2021 1158
MeFOSAA	16	17		1	108	50-150	07/12/2021 1158
MeFOSE	16	21		1	129	50-150	07/12/2021 1158
PFBS	14	15		1	103	50-150	07/12/2021 1158
PFDS	15	15		1	97	50-150	07/12/2021 1158
PFHpS	15	16		1	102	50-150	07/12/2021 1158
PFNS	15	15		1	99	50-150	07/12/2021 1158
PFOSA	16	16		1	100	50-150	07/12/2021 1158
PFPeS	15	15		1	99	50-150	07/12/2021 1158
PFDOS	15	15		1	99	50-150	07/12/2021 1158
PFHxS	15	15		1	106	50-150	07/12/2021 1158
PFBA	16	17		1	106	50-150	07/12/2021 1158
PFDA	16	16		1	99	50-150	07/12/2021 1158
PFDoA	16	16		1	101	50-150	07/12/2021 1158
PFHpA	16	17		1	107	50-150	07/12/2021 1158
PFHxDA	16	16		1	103	50-150	07/12/2021 1158
PFHxA	16	17		1	108	50-150	07/12/2021 1158
PFNA	16	18		1	110	50-150	07/12/2021 1158
PFODA	16	14		1	87	50-150	07/12/2021 1158
PFOA	16	17		1	104	50-150	07/12/2021 1158
PFPeA	16	17		1	107	50-150	07/12/2021 1158
PFTeDA	16	16		1	101	50-150	07/12/2021 1158
PFTrDA	16	15		1	97	50-150	07/12/2021 1158
PFUdA	16	16		1	102	50-150	07/12/2021 1158
PFOS	15	15		1	104	50-150	07/12/2021 1158

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		83	25-150
13C2_6:2FTS		91	25-150
13C2_8:2FTS		83	25-150
13C2_PFDoA		83	25-150
13C2_PFHxDA		81	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: WQ98431-002
Batch: 98431
Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 07/09/2021 1735

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFTeDA		81	25-150
13C3_PFBS		82	25-150
13C3_PFHxS		77	25-150
13C3-HFPO-DA		83	25-150
13C4_PFBA		83	25-150
13C4_PFHpA		86	25-150
13C5_PFHxA		77	25-150
13C5_PFPeA		81	25-150
13C6_PFDA		80	25-150
13C7_PFUdA		82	25-150
13C8_PFOA		83	25-150
13C8_PFOS		77	25-150
13C8_PFOSA		77	10-150
13C9_PFNA		81	25-150
d-EtFOSA		54	10-150
d5-EtFOSAA		77	25-150
d9-EtFOSE		79	10-150
d-MeFOSA		62	10-150
d3-MeFOSAA		80	25-150
d7-MeFOSE		79	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody

and

Miscellaneous Documents

Internal Transfer Chain of Custody

Samples Pre-Logged into eCOC.

State Of Origin: WI
Cert. Needed: [X] Yes [ ] No
Owner Received Date: 6/23/2021 Results Requested By: 7/16/2021

Pace Analytical
www.pacelabs.com

Workorder: 40228984 **Workorder Name:** LACROSSE WELLS 23 & 24

Report To	Subcontract To	Requested Analysis
Christopher Hyska Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436	Pace Analytical West Columbia 106 Vantage Point Drive West Columbia, SC 29172 Phone (803)791-9700	WI 36 PFAS by ID

WF25067

KLC2

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Number of Containers	WI 36 PFAS by ID	LAB USE ONLY
1	150-0	PS	6/22/2021 13:23	40228984001	Water	2	X	
2								
3								
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1		6/23/21 1600		
2				
3	UPS	6/24/21 0958		6/24/21 0958

Comments: IR77 - MDL reporting - Quote 23492

Cooler Temperature on Receipt 3.4 °C | Custody Seal (Y) or N | Received on Ice (Y) or N | Samples Intact (Y) or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

(Please Print Clearly)

Company Name:	The OS Group LLC
Branch/Location:	LaCrosse WI
Project Contact:	Steven Osesek
Phone:	608-433-9388
Project Number:	-
Project Name:	LACROSSE WELLS 23 & 24
Project State:	WI
Sampled By (Print):	Steven Osesek
Sampled By (Sign):	Steven Osesek
PO #:	-
Regulatory Program:	WDNR

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page of

COC No. 40228884

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	-
Mail To Contact:	Steven Osesek
Mail To Company:	The OS Group LLC
Mail To Address:	444 21st St S LaCrosse, WI 54601
Invoice To Contact:	Steven Osesek
Invoice To Company:	The OS Group LLC
Invoice To Address:	444 21st St S LaCrosse, WI 54601
Invoice To Phone:	608-433-9388

FILTERED? (YES/NO) — Y/N: N
PRESERVATION (CODE)* — Pick Letter: A

Analyses Requested: WI 36 PFAS by ID

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	WI 36 PFAS by ID	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
								4532
001	150-0	6-22	1:23	DW	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Steven Osesek	6/22/21 1:45		
FedEx	6/23/21 1130	[signature]	6/23/21 1130

PACE Project No. 40228884

Receipt Temp = 4 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Private Well Sample Results
2527 Baumgartner Dr

Wisconsin State Laboratory of Hygiene
UNIVERSITY OF WISCONSIN-MADISON

Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive, PO Box 7996
Madison, WI 53707-7996
(800)442-4618 - FAX (608)224-6213
http://www.slh.wisc.edu

Laboratory Report

Environmental Health Division

WSLH Sample: 562625001

Report To:
[redacted]
2527 BAUMGARTNER DR
LA CROSSE, WI 54603

Invoice To:
[redacted]
2527 BAUMGARTNER DR
LA CROSSE, WI 54603
Customer ID: 356343

Field #: 2527 BAUMGARTNER DR
Project No:
Collection End: 5/18/2021 9:00:00 AM

Collection Start:
Collected By: [redacted]
Date Received: 5/19/2021
Date Reported: 6/21/2021
Sample Reason:

ID#:
Sample Location:
Sample Description: 2527 BAUMGARTNER DR, KITCHEN FAUCET
Sample Type: PO-PRIVATE WELL
Waterbody:
Point or Outfall:
Sample Depth:
Program Code:
Region Code:
County:

PFAS in Water

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 05/26/21 11:45	Analysis Date: 06/09/21 19:49				
PFBA (375-22-4)	WSLH PFAS in Water	25.7	ng/L	2.57	7.36
PFPeA (2706-90-3)	WSLH PFAS in Water	1.22	ng/L	0.222	0.919
PFBS (375-73-5)	WSLH PFAS in Water	7.45	ng/L	0.143	0.919
4:2 FTSA (757124-72-4)	WSLH PFAS in Water	0.297F	ng/L	0.203	0.919
PFHxA (307-24-4)	WSLH PFAS in Water	1.10	ng/L	0.124	0.919
PFPeS (2706-91-4)	WSLH PFAS in Water	0.452F	ng/L	0.0778	0.919
HFPO-DA (13252-13-6)	WSLH PFAS in Water	<0.135	ng/L	0.135	0.919
PFHpA (375-85-9)	WSLH PFAS in Water	<0.0956	ng/L	0.0956	0.919
PFHxS (355-46-4)	WSLH PFAS in Water	4.31	ng/L	0.0858	0.919
DONA (919005-14-4)	WSLH PFAS in Water	<0.0938	ng/L	0.0938	0.919
6:2 FTSA (27619-97-2)	WSLH PFAS in Water	<0.154	ng/L	0.154	0.919
PFOA (335-67-1)	WSLH PFAS in Water	9.38	ng/L	0.179	0.919
PFHpS (375-92-8)	WSLH PFAS in Water	0.135F	ng/L	0.103	0.919
PFOS (1763-23-1)	WSLH PFAS in Water	8.50	ng/L	0.120	0.919
PFNA (375-95-1)	WSLH PFAS in Water	<0.143	ng/L	0.143	0.919
9Cl-PF3ONS (756426-58-1)	WSLH PFAS in Water	<0.132	ng/L	0.132	0.919

Wisconsin State Laboratory of Hygiene
UNIVERSITY OF WISCONSIN-MADISON

Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive, PO Box 7996
Madison, WI 53707-7996
(800)442-4618 - FAX (608)224-6213
http://www.slh.wisc.edu

Laboratory Report

Environmental Health Division

WSLH Sample: 562625001

PFAS in Water

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 05/26/21 11:45	Analysis Date: 06/09/21 19:49				
8:2 FTSA (39108-34-4)	WSLH PFAS in Water	<0.122	ng/L	0.122	0.919
PFDA (335-76-2)	WSLH PFAS in Water	<0.139	ng/L	0.139	0.919
PFNS (68259-12-1)	WSLH PFAS in Water	<0.176	ng/L	0.176	0.919
N-MeFOSAA (2355-31-9)	WSLH PFAS in Water	<0.180	ng/L	0.180	0.919
N-EtFOSAA (2991-50-6)	WSLH PFAS in Water	<0.273	ng/L	0.273	0.919
FOSA (754-91-6)	WSLH PFAS in Water	<0.804	ng/L	0.804	3.68
PFUnA (2058-94-8)	WSLH PFAS in Water	<0.174	ng/L	0.174	0.919
PFDS (335-77-3)	WSLH PFAS in Water	<0.182	ng/L	0.182	0.919
11Cl-PF3OUdS (763051-92-9)	WSLH PFAS in Water	<0.131	ng/L	0.131	0.919
PFDoA (307-55-1)	WSLH PFAS in Water	<0.236	ng/L	0.236	0.919
PFDoS (79780-39-5)	WSLH PFAS in Water	<0.826	ng/L	0.826	3.68
PFTrDA (72629-94-8)	WSLH PFAS in Water	<0.226	ng/L	0.226	0.919
N-MeFOSA (31506-32-8)	WSLH PFAS in Water	<0.428	ng/L	0.428	0.919
N-MeFOSE (24448-09-7)	WSLH PFAS in Water	<0.398	ng/L	0.398	0.919
N-EtFOSA (4151-50-2)	WSLH PFAS in Water	<0.291	ng/L	0.291	0.919
N-EtFOSE (1691-99-2)	WSLH PFAS in Water	<0.451	ng/L	0.451	0.919
PFTeDA (376-06-7)	WSLH PFAS in Water	<0.456	ng/L	0.456	0.919

Private Well Sample Results
2602 Jerald St

Analytical Laboratory Report

[redacted]

4-2069-D

2602 Jerald St
La Crosse, WI 54603

Lab Sample ID: S24259.01
Sample Tag: 562707[redacted]
Collected Date/Time: 05/11/2021 08:00
Matrix: Drinking Water
COC Reference: 121748

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	250ml Plastic	Trizma	Yes	3.2	IR

Extraction / Prep.

Parameter	Result	Method	Run Date	Analyst	Flags
Sample Amount*	281.21 ml	E537.1	05/17/21 10:00	KCV	
pH check for DW PFAs*	7	N/A	05/17/21 10:00	KCV	

Organics

PFAs Drinking Water, Method: E537.1, Run Date: 05/21/21 17:41, Analyst: KCV

Parameter	Result	RL	MDL	Units	Dilution	CAS#	Flags
PFHxA*	Not detected	2		ng/L	1	307-24-4	1
PFBS*	5	2		ng/L	1	375-73-5	1
PFHpA*	Not detected	2		ng/L	1	375-85-9	1
PFOA	11	2		ng/L	1	335-67-1	1
PFHxS*	2	2		ng/L	1	355-46-4	1
PFNA*	Not detected	2		ng/L	1	375-95-1	1
PFDA*	Not detected	2		ng/L	1	335-76-2	1
N-MeFOSAA*	Not detected	2		ng/L	1	2355-31-9	1
EtFOSAA*	Not detected	2		ng/L	1	2991-50-6	1
PFOS	12	2		ng/L	1	1763-23-1	1
PFUnDA*	Not detected	2		ng/L	1	2058-94-8	1
PFDoDA*	Not detected	2		ng/L	1	307-55-1	1
PFTrDA*	Not detected	2		ng/L	1	72629-94-8	1
PFTeDA*	Not detected	2		ng/L	1	376-06-7	1
11Cl-PF3OUdS*	Not detected	2		ng/L	1	763051-92-9	1
9Cl-PF3ONS*	Not detected	2		ng/L	1	756426-58-1	1
ADONA*	Not detected	2		ng/L	1	919005-14-4	1
HFPO-DA*	Not detected	2		ng/L	1	13252-13-6	1

1-No field blank included. Report not for compliance purposes.

23.00

Private Well Sample Results
2611 Lakeshore Dr

Wisconsin State Laboratory of Hygiene
UNIVERSITY OF WISCONSIN-MADISON

Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive, PO Box 7996
Madison, WI 53707-7996
(800)442-4618 - FAX (608)224-6213
http://www.slh.wisc.edu

Laboratory Report

Environmental Health Division

WSLH Sample: 562698001

Report To:
[redacted]
2611 LAKESHORE DR
LA CROSSE, WI 54603

Invoice To:
[redacted]
2611 LAKESHORE DR
LA CROSSE, WI 54603
Customer ID: 356326

Field #: 2611 LAKESHORE DR
Project No:
Collection End: 5/17/2021 10:30:00 AM

Collection Start:
Collected By: [redacted]
Date Received: 5/19/2021
Date Reported: 6/21/2021
Sample Reason:

ID#:
Sample Location:
Sample Description: 2611 LAKESHORE DR LACROSSE, WI, KITCHEN FAUCET 1288006
Sample Type: PO-PRIVATE WELL
Waterbody:
Point or Outfall:
Sample Depth:
Program Code:
Region Code:
County:

PFAS in Water

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 05/26/21 11:45	Analysis Date: 06/09/21 18:25				
PFBA (375-22-4)	WSLH PFAS in Water	27.2	ng/L	2.60	7.42
PFPeA (2706-90-3)	WSLH PFAS in Water	1.19	ng/L	0.223	0.927
Transition Ion Ratio Failure.					
PFBS (375-73-5)	WSLH PFAS in Water	7.23	ng/L	0.145	0.927
4:2 FTSA (757124-72-4)	WSLH PFAS in Water	0.208F	ng/L	0.205	0.927
Transition Ion Ratio Failure.					
PFHxA (307-24-4)	WSLH PFAS in Water	1.59	ng/L	0.125	0.927
PFPeS (2706-91-4)	WSLH PFAS in Water	0.516F	ng/L	0.0784	0.927
HFPO-DA (13252-13-6)	WSLH PFAS in Water	<0.136	ng/L	0.136	0.927
PFHpA (375-85-9)	WSLH PFAS in Water	0.380F	ng/L	0.0964	0.927
PFHxS (355-46-4)	WSLH PFAS in Water	4.53	ng/L	0.0865	0.927
DONA (919005-14-4)	WSLH PFAS in Water	<0.0946	ng/L	0.0946	0.927
6:2 FTSA (27619-97-2)	WSLH PFAS in Water	<0.155	ng/L	0.155	0.927
PFOA (335-67-1)	WSLH PFAS in Water	7.28	ng/L	0.181	0.927
PFHpS (375-92-8)	WSLH PFAS in Water	0.105F	ng/L	0.104	0.927
PFOS (1763-23-1)	WSLH PFAS in Water	8.00	ng/L	0.121	0.927

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Laboratory Report

Environmental Health Division

WSLH Sample: 562698001

PFAS in Water

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 05/26/21 11:45	Analysis Date: 06/09/21 18:25				
PFNA (375-95-1)	WSLH PFAS in Water	<0.145	ng/L	0.145	0.927
9Cl-PF3ONS (756426-58-1)	WSLH PFAS in Water	<0.134	ng/L	0.134	0.927
8:2 FTSA (39108-34-4)	WSLH PFAS in Water	<0.123	ng/L	0.123	0.927
PFDA (335-76-2)	WSLH PFAS in Water	<0.140	ng/L	0.140	0.927
PFNS (68259-12-1)	WSLH PFAS in Water	<0.177	ng/L	0.177	0.927
N-MeFOSAA (2355-31-9)	WSLH PFAS in Water	<0.182	ng/L	0.182	0.927
N-EtFOSAA (2991-50-6)	WSLH PFAS in Water	<0.275	ng/L	0.275	0.927
FOSA (754-91-6)	WSLH PFAS in Water	<0.811	ng/L	0.811	3.71
PFUnA (2058-94-8)	WSLH PFAS in Water	<0.175	ng/L	0.175	0.927
PFDS (335-77-3)	WSLH PFAS in Water	0.204F	ng/L	0.184	0.927
Transition Ion Ratio Failure.					
11Cl-PF3OUdS (763051-92-9)	WSLH PFAS in Water	<0.132	ng/L	0.132	0.927
PFDoA (307-55-1)	WSLH PFAS in Water	<0.238	ng/L	0.238	0.927
PFDoS (79780-39-5)	WSLH PFAS in Water	<0.833	ng/L	0.833	3.71
PFTrDA (72629-94-8)	WSLH PFAS in Water	<0.228	ng/L	0.228	0.927
N-MeFOSA (31506-32-8)	WSLH PFAS in Water	<0.432	ng/L	0.432	0.927
N-MeFOSE (24448-09-7)	WSLH PFAS in Water	<0.401	ng/L	0.401	0.927
N-EtFOSA (4151-50-2)	WSLH PFAS in Water	<0.293	ng/L	0.293	0.927
N-EtFOSE (1691-99-2)	WSLH PFAS in Water	<0.455	ng/L	0.455	0.927
PFTeDA (376-06-7)	WSLH PFAS in Water	<0.460	ng/L	0.460	0.927

Private Well Sample Results
2918 N Bayshore Dr

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http://www.slh.wisc.edu

Laboratory Report

Environmental Health Division

WSLH Sample: 562699001

Report To:
[redacted]
2918 NORTH BAYSHORE DR
LA CROSSE, WI 54603

Invoice To:
[redacted]
2918 NORTH BAYSHORE DR
LA CROSSE, WI 54603
Customer ID: 356315

Field #: 2918 N BAYSHORE DR
Project No:
Collection End: 5/17/2021 10:13:00 AM

Collection Start:
Collected By: [redacted]
Date Received: 5/19/2021
Date Reported: 6/21/2021
Sample Reason:

ID#:
Sample Location:
Sample Description: 2918 N BAYSHORE DR, SE OUTSIDE FAUCET
Sample Type: PO-PRIVATE WELL
Waterbody:
Point or Outfall:
Sample Depth:
Program Code:
Region Code:
County:

PFAS in Water

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 05/26/21 08:00	Analysis Date: 06/09/21 17:57				
PFBA (375-22-4)	WSLH PFAS in Water	7.66	ng/L	2.46	7.03
PFPeA (2706-90-3)	WSLH PFAS in Water	<0.212	ng/L	0.212	0.879
PFBS (375-73-5)	WSLH PFAS in Water	1.53	ng/L	0.137	0.879
4:2 FTSA (757124-72-4)	WSLH PFAS in Water	<0.194	ng/L	0.194	0.879
PFHxA (307-24-4)	WSLH PFAS in Water	<0.119	ng/L	0.119	0.879
PFPeS (2706-91-4)	WSLH PFAS in Water	0.168F	ng/L	0.0744	0.879
HFPO-DA (13252-13-6)	WSLH PFAS in Water	<0.129	ng/L	0.129	0.879
PFHpA (375-85-9)	WSLH PFAS in Water	<0.0914	ng/L	0.0914	0.879
PFHxS (355-46-4)	WSLH PFAS in Water	0.583F	ng/L	0.0820	0.879
DONA (919005-14-4)	WSLH PFAS in Water	<0.0897	ng/L	0.0897	0.879
6:2 FTSA (27619-97-2)	WSLH PFAS in Water	<0.147	ng/L	0.147	0.879
PFOA (335-67-1)	WSLH PFAS in Water	<0.171	ng/L	0.171	0.879
PFHpS (375-92-8)	WSLH PFAS in Water	<0.0984	ng/L	0.0984	0.879
PFOS (1763-23-1)	WSLH PFAS in Water	2.51	ng/L	0.115	0.879
PFNA (375-95-1)	WSLH PFAS in Water	0.178F	ng/L	0.137	0.879
9Cl-PF3ONS (756426-58-1)	WSLH PFAS in Water	<0.127	ng/L	0.127	0.879

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Laboratory Report

Environmental Health Division

WSLH Sample: 562699001

PFAS in Water

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 05/26/21 08:00	Analysis Date: 06/09/21 17:57				
8:2 FTSA (39108-34-4)	WSLH PFAS in Water	<0.117	ng/L	0.117	0.879
PFDA (335-76-2)	WSLH PFAS in Water	<0.133	ng/L	0.133	0.879
PFNS (68259-12-1)	WSLH PFAS in Water	<0.168	ng/L	0.168	0.879
N-MeFOSAA (2355-31-9)	WSLH PFAS in Water	<0.172	ng/L	0.172	0.879
N-EtFOSAA (2991-50-6)	WSLH PFAS in Water	<0.261	ng/L	0.261	0.879
FOSA (754-91-6)	WSLH PFAS in Water	<0.769	ng/L	0.769	3.52
PFUnA (2058-94-8)	WSLH PFAS in Water	<0.166	ng/L	0.166	0.879
PFDS (335-77-3)	WSLH PFAS in Water	0.225F	ng/L	0.174	0.879
11Cl-PF3OUdS (763051-92-9)	WSLH PFAS in Water	<0.125	ng/L	0.125	0.879
PFDoA (307-55-1)	WSLH PFAS in Water	<0.226	ng/L	0.226	0.879
PFDoS (79780-39-5)	WSLH PFAS in Water	<0.789	ng/L	0.789	3.52
PFTrDA (72629-94-8)	WSLH PFAS in Water	<0.216	ng/L	0.216	0.879
N-MeFOSA (31506-32-8)	WSLH PFAS in Water	<0.410	ng/L	0.410	0.879
N-MeFOSE (24448-09-7)	WSLH PFAS in Water	<0.381	ng/L	0.381	0.879
N-EtFOSA (4151-50-2)	WSLH PFAS in Water	<0.278	ng/L	0.278	0.879
N-EtFOSE (1691-99-2)	WSLH PFAS in Water	<0.432	ng/L	0.432	0.879
PFTeDA (376-06-7)	WSLH PFAS in Water	<0.436	ng/L	0.436	0.879

Private Well Sample Results
2933 Pierce Ave

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Laboratory Report

Environmental Health Division

WSLH Sample: 562925001

Report To:
[redacted]
2933 PIERCE AVE.
LACROSSE, WI 54603

Invoice To:
[redacted]
2933 PIERCE AVE.
LACROSSE, WI 54603
Customer ID: 348677

Field #: 2933 PIERCE
Project No:
Collection End: 5/19/2021 4:00:00 PM
Collection Start:
Collected By: [redacted]
Date Received: 5/20/2021
Date Reported: 6/14/2021
Sample Reason:

ID#:
Sample Location:
Sample Description:2933 PIERCE, KITCHEN
Sample Type: PO-PRIVATE WELL
Waterbody:
Point or Outfall:
Sample Depth:
Program Code:
Region Code:
County:

PFAS in Water

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 05/27/21 11:20	Analysis Date: 06/02/21 16:02				
PFBA (375-22-4)	WSLH PFAS in Water	<2.76	ng/L	2.76	7.88
PFPeA (2706-90-3)	WSLH PFAS in Water	<0.237	ng/L	0.237	0.985
PFBS (375-73-5)	WSLH PFAS in Water	0.968F	ng/L	0.154	0.985
4:2 FTSA (757124-72-4)	WSLH PFAS in Water	<0.218	ng/L	0.218	0.985
PFHxA (307-24-4)	WSLH PFAS in Water	<0.133	ng/L	0.133	0.985
PFPeS (2706-91-4)	WSLH PFAS in Water	<0.0833	ng/L	0.0833	0.985
HFPO-DA (13252-13-6)	WSLH PFAS in Water	<0.145	ng/L	0.145	0.985
PFHpA (375-85-9)	WSLH PFAS in Water	<0.102	ng/L	0.102	0.985
PFHxS (355-46-4)	WSLH PFAS in Water	0.368F	ng/L	0.0919	0.985
DONA (919005-14-4)	WSLH PFAS in Water	<0.100	ng/L	0.100	0.985
6:2 FTSA (27619-97-2)	WSLH PFAS in Water	<0.164	ng/L	0.164	0.985
PFOA (335-67-1)	WSLH PFAS in Water	<0.192	ng/L	0.192	0.985
PFHpS (375-92-8)	WSLH PFAS in Water	<0.110	ng/L	0.110	0.985
PFOS (1763-23-1)	WSLH PFAS in Water	2.00	ng/L	0.129	0.985
PFNA (375-95-1)	WSLH PFAS in Water	0.172F	ng/L	0.154	0.985
9CI-PF3ONS (756426-58-1)	WSLH PFAS in Water	<0.142	ng/L	0.142	0.985

Private Well Sample Results
3122 Howry Ave

PFOS 6.63

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Laboratory Report

Environmental Health Division

WSLH Sample: 560897001

Report To:
[redacted]
3122 HOWRY AVE
LACOSSE, WI 54603

Invoice To:
[redacted]
3122 HOWRY AVE
LACOSSE, WI 54603
Customer ID: 356298

Field #: KITCHEN FAUCET
Project No:
Collection End: 5/10/2021 9:00:00 AM
Collection Start:
Collected By: [redacted]
Date Received: 5/11/2021
Date Reported: 6/17/2021
Sample Reason:

ID#:
Sample Location:
Sample Description: 3122 HOWRY AVE
Sample Type: PO-PRIVATE WELL
Waterbody:
Point or Outfall:
Sample Depth:
Program Code:
Region Code:
County:

PFAS in Water

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 05/18/21 08:30	Analysis Date: 06/09/21 09:02				
PFBA (375-22-4)	WSLH PFAS in Water	7.88	ng/L	2.65	7.58
PFPeA (2706-90-3)	WSLH PFAS in Water	<0.228	ng/L	0.228	0.948
PFBS (375-73-5)	WSLH PFAS in Water	2.80	ng/L	0.148	0.948
4:2 FTSA (757124-72-4)	WSLH PFAS in Water	<0.209	ng/L	0.209	0.948
PFHxA (307-24-4)	WSLH PFAS in Water	<0.128	ng/L	0.128	0.948
PFPeS (2706-91-4)	WSLH PFAS in Water	0.235F	ng/L	0.0802	0.948
HFPO-DA (13252-13-6)	WSLH PFAS in Water	<0.139	ng/L	0.139	0.948
PFHpA (375-85-9)	WSLH PFAS in Water	<0.0986	ng/L	0.0986	0.948
PFHxS (355-46-4)	WSLH PFAS in Water	1.10	ng/L	0.0884	0.948
DONA (919005-14-4)	WSLH PFAS in Water	<0.0967	ng/L	0.0967	0.948
6:2 FTSA (27619-97-2)	WSLH PFAS in Water	<0.158	ng/L	0.158	0.948
The Laboratory Control Spike (LCS) does not meet the upper QC limit.					
PFOA (335-67-1)	WSLH PFAS in Water	<0.185	ng/L	0.185	0.948
PFHpS (375-92-8)	WSLH PFAS in Water	<0.106	ng/L	0.106	0.948
PFOS (1763-23-1)	WSLH PFAS in Water	6.63	ng/L	0.124	0.948
The Laboratory Control Spike (LCS) does not meet the upper QC limit.					
PFNA (375-95-1)	WSLH PFAS in Water	0.338F	ng/L	0.148	0.948

Report ID: 8745199

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Laboratory Report

Environmental Health Division

WSLH Sample: 560897001

PFAS in Water

Analyte	Analysis Method	Result	Units	LOD	LOQ
Prep Date: 05/18/21 08:30	Analysis Date: 06/09/21 09:02				
9Cl-PF3ONS (756426-58-1)	WSLH PFAS in Water	<0.136	ng/L	0.136	0.948
The Laboratory Control Spike (LCS) does not meet the upper QC limit.					
8:2 FTSA (39108-34-4)	WSLH PFAS in Water	<0.126	ng/L	0.126	0.948
PFDA (335-76-2)	WSLH PFAS in Water	0.156F	ng/L	0.143	0.948
PFNS (68259-12-1)	WSLH PFAS in Water	<0.181	ng/L	0.181	0.948
N-MeFOSAA (2355-31-9)	WSLH PFAS in Water	<0.186	ng/L	0.186	0.948
N-EtFOSAA (2991-50-6)	WSLH PFAS in Water	<0.282	ng/L	0.282	0.948
FOSA (754-91-6)	WSLH PFAS in Water	<0.829	ng/L	0.829	3.79
PFUnA (2058-94-8)	WSLH PFAS in Water	<0.179	ng/L	0.179	0.948
PFDS (335-77-3)	WSLH PFAS in Water	<0.188	ng/L	0.188	0.948
11Cl-PF3OUdS (763051-92-9)	WSLH PFAS in Water	<0.135	ng/L	0.135	0.948
PFDoA (307-55-1)	WSLH PFAS in Water	<0.244	ng/L	0.244	0.948
PFDoS (79780-39-5)	WSLH PFAS in Water	<0.851	ng/L	0.851	3.79
PFTrDA (72629-94-8)	WSLH PFAS in Water	<0.233	ng/L	0.233	0.948
N-MeFOSA (31506-32-8)	WSLH PFAS in Water	<0.442	ng/L	0.442	0.948
N-MeFOSE (24448-09-7)	WSLH PFAS in Water	<0.410	ng/L	0.410	0.948
N-EtFOSA (4151-50-2)	WSLH PFAS in Water	<0.300	ng/L	0.300	0.948
N-EtFOSE (1691-99-2)	WSLH PFAS in Water	<0.465	ng/L	0.465	0.948
PFTeDA (376-06-7)	WSLH PFAS in Water	<0.470	ng/L	0.470	0.948