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444 21<sup>st</sup> Street South · La Crosse, Wisconsin · 54601

June 30, 2021

David Rozeboom DNR Service Center  
1300 W Clairemont Ave.  
Eau Claire, WI 54701

**Re: Private Well Sampling Results Letters – April 16, 2021 through June 30, 2021  
La Crosse Airport PFAS Investigation  
French Island, La Crosse, WI  
WDNR BRRTS # 02-32-587347**

Dear Mr. Rozeboom:

Please find attached one (1) letter to property owners and occupants conveying the PFAS results of the private well sampling on French Island. This represents all lab reports received and letters sent between April 16 and June 22, 2021, for properties where the City has sampled private wells as part of its site investigation of PFAS related to the La Crosse Regional Airport. The attached table provides, for the private well sampling point, the sampling point number keyed to tax parcel number, address, owner, occupant, well information (where available/obtained), sampling date, lab report date, results letter and email dates, and the date the occupant signed the bottled water agreement as applicable.

Where re-sampling was conducted, it was conducted based on these criteria: Wells were re-sampled if original results were equal to or greater than 75% of a proposed enforcement standard for any PFAS compound. Some private wells were resampled because they were outliers, otherwise anomalous; or the owner requested and paid for resampling.

Please let me know if you have any questions or require additional information.

Sincerely,

A handwritten signature in blue ink that reads "John C. Storlie".

John C. Storlie, PG  
Principal Consultant  
Direct: 608-433-9389  
Cell: 608-769-2433

[John.storlie@theOSgrp.com](mailto:John.storlie@theOSgrp.com)

Attachments: Table - Private Well Sampling Points  
Private well results letters

Cc: Mayor Reynolds (w/ table only)  
Matt Gallager (w/ table only)

Private Well Sampling Points  
 La Crosse Airport PFAS Investigation  
 Results received 4/16/2021 through 6/22/21

Sampling Point Number	Tax Parcel Number	Owner Name	Private Well Sampling Area #	Property Address	Property Zip	Owner Occupied?	OWNER Agreement obtained? Date of agreement	Occupant Name (if diff from owner)	Completed Sampling Date	UWID	Well Screen interval (ft bgs)	Depth mid pt Screen (ft bgs)	Static water level (ft bgs)	Ground Surface Elev. (ft) (+/- 0.5 ft)	SWL Elev (ft)	Elev. Mid Pt Screen	Lab Report Date	Results e-mail Date	Results Letter Date	Bottled Water Ack. Date	Resample? Planned date on or after	Resample Completed date	Post-Treatment	Lab Report 2 Date	Results 2 e-mail Date	Results 2 Letter Date
380-0	4-380-0	[REDACTED]	1	2525 2ND AVE W	54603	Yes	2/24/2021		3/3/2021	VE753	60-63	61.5	28	665	637	603.5	3/26/2021	na	3/27/2021		3/29/2021	4/6/2021		5/3/2021	na	5/3/2021



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444 21<sup>st</sup> Street South · La Crosse, Wisconsin · 54601

May 14, 2021

██████████  
2525 Second Avenue West  
La Crosse, WI 54603

Subject: Private Well Sampling Results  
2525 Second Avenue West, La Crosse, WI 54603  
Tax parcel # 4-380-0  
Sampling Point # 380-0  
Sampling Date: April 6, 2021

Dear ██████████:

We have received and reviewed the test results for the sample collected at the above address. This is the second sampled taken from your well. We collected this second sample because the original results were closed to the proposed standards.

While the results were similar to the first sample collected, some PFAS compounds were found at levels above the Wisconsin 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.

**Because some of the levels are above the recommended Public Health Standard, DHS recommends that you not use your well water for drinking, cooking, brushing your teeth and irrigating vegetable gardens.**

**The City is offering to provide bottled water delivered to your home for drinking, cooking, and brushing your teeth. The bottled water being provided by Culligan is bottled in Rothschild, WI from a municipal water system. Culligan's source water is filtered and treated by carbon filter, reverse osmosis, distillation and other methods before it is bottled. It has been sampled for PFAS, and no PFAS was detected in the sample. There will be no cost to you for the bottled water. Please complete the attached form and mail it to The OS Group to make arrangements for having a water dispenser and bottles delivered to your home. Call 608-668-2718 or email [PFAS@theOSgrp.com](mailto:PFAS@theOSgrp.com) . You may also complete this form online at [www.cityoflacrosse.org/bottledwater](http://www.cityoflacrosse.org/bottledwater)**

The following table summarizes the test results from the sample. **Bolded results** are above a

current recommended level intended to protect your health according to the Department of Health Services (DHS).

**Sample Results**

Compound	Sample Result (unit)	Recommended Public Health Standard (unit <sup>e</sup> )
N-Ethyl Perfluorooctane sulfonamide (NEtFOSA) CAS # 4151-50-2	Not Detected	20 ppt <sup>a,b</sup>
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA) CAS # 2991-50-6	Not Detected	20 ppt <sup>a,b</sup>
N-Ethyl perfluorooctane sulfonamidoethanol (NEtFOSE) CAS # 1691-99-2	Not Detected	20 ppt <sup>a,b</sup>
Perfluorooctane sulfonamide (PFOSA) CAS # 754-91-6	Not Detected	20 ppt <sup>a,b</sup>
<b>Perfluorooctanoic acid (PFOA)</b> <b>CAS # 335-67-1</b>	<b>12 ppt</b>	20 ppt <sup>a,b</sup>
<b>Perfluorooctanesulfonic acid (PFOS)</b> <b>CAS # 1763-23-1</b>	<b>8.4 ppt</b>	20 ppt <sup>a,b</sup>
The recommended limit is 20 ppt for any one of these 6 compounds or the combined total of all 6		
Hexafluoropropylene oxide dimer acid (HPFO-DA; GenX) CAS # 13252-13-6	Not Detected	300 ppt <sup>a</sup>
Perfluorobutanesulfonic acid (PFBS) CAS # 375-73-5	6.0 ppt	450,000 ppt <sup>a</sup>
Perfluorohexanesulfonic acid (PFHxS) CAS # 355-46-4	9.5 ppt	40 ppt <sup>a</sup>
Perfluorobutanoic acid (PFBA) CAS # 375-22-4	120 ppt	10,000 ppt <sup>a</sup>
Perfluorodecanoic acid (PFDA) CAS # 335-76-2	Not Detected	300 ppt <sup>a</sup>
Perfluorododecanoic acid (PFDoA) CAS # 307-55-1	Not Detected	500 ppt <sup>a</sup>
Perfluorohexanoic acid (PFHxA) CAS # 307-24-4	Not Detected	150,000 ppt <sup>a</sup>
Perfluorononanoic acid (PFNA) CAS # 375-95-1	Not Detected	30 ppt <sup>a</sup>
Perfluorotetradecanoic acid (PFTeDA) CAS # 376-06-7	Not Detected	10,000 ppt <sup>a</sup>
Perfluoroundecanoic acid (PFUdA) CAS # 2058-94-8	Not Detected	3,000 ppt <sup>a</sup>
4,8-Dioxa-3H-perfluorononanoic acid (DONA) CAS # 919005-14-4	Not Detected	3,000 ppt <sup>a</sup>
Perfluorooctadecanoic acid (PFODA)	Not Detected	400,000 ppt <sup>a</sup>

CAS # 16517-11-6		
Perfluoro-1-heptanesulfonic acid (PFHpS) CAS # 375-92-8	0.77 ppt	None Established <sup>c</sup>
Perfluoro-1-pentanesulfonic acid (PFPeS) CAS # 2706-91-4	4.2 ppt	None Established <sup>c</sup>
<sup>a</sup> Public health enforcement standard (ES) recommended by DHS. <sup>b</sup> 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. <sup>c</sup> A current standard is not available; the compound is currently under review by DHS for potential public health standard recommendation. <sup>d</sup> Public health enforcement standard (ES) in NR 140, Wisconsin Administrative Code. <sup>e</sup> Units: Parts per trillion (ppt) = nanograms of substance per liter of water (ng/L) <sup>bl</sup> 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](mailto: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.

<u>Questions about...</u>		<u>Contact</u>	<u>Phone</u>	<u>E-mail Address</u>
Soil & Groundwater Testing, Clean Up	DNR	David Rozeboom	715-215-2078	<a href="mailto:David.Rozeboom@wisconsin.gov">David.Rozeboom@wisconsin.gov</a>
Drinking Water or Private wells	DNR	Kyle Burton	920-360-2112	<a href="mailto:kyle.burton@wisconsin.gov">kyle.burton@wisconsin.gov</a>
Health Concerns	DHS	Curtis Hedman	608-266-6677	<a href="mailto:Curtis.Hedman@dhs.wisconsin.gov">Curtis.Hedman@dhs.wisconsin.gov</a>

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

Attachment: Lab report for your well  
 Bottled Water Acknowledgement

# BOTTLED WATER ACKNOWLEDGEMENT

2525 Second Avenue West, La Crosse, WI 54603

*If you desire to accept the bottled water delivery, please complete and sign this form and return it to The OS Group at [PFAS@TheOSgrp.com](mailto:PFAS@TheOSgrp.com) or mail to 444 21<sup>st</sup> St. S, La Crosse, WI 54601. You may also complete this form electronically on line at [www.cityoflacrosse.org/bottledwater](http://www.cityoflacrosse.org/bottledwater) . Call 608-668-2718 with any question you may have.*

As pre-caution for the protection of human health, the City of La Crosse (The City) will provide, on a temporary basis, bottled water for drinking, cooking and toothbrushing purposes at the above referenced address. The water will be delivered to your home or business by a commercial water delivery service. At the City's cost, a dispenser / cooler and regular deliveries of 5-gallon containers of water will be provided. The City reserves the right to dictate the conditions of delivery, such as minimum and maximum number of containers per delivery, frequency and timing of deliveries. The City reserves the right to periodically review whether The City should continue to provide bottled water, considering factors such as State and Federal standards and guidance, evolving knowledge and understanding of the sources, cause and responsibility for the contamination, new or reinterpreted test results, and the availability of more permanent or cost-effective sources of water for the above purposes. The City of La Crosse makes no warranty or representation regarding the suitability of the bottled water beyond those made by the commercial water delivery service.

***All reusable or returnable equipment and supplies, such as the containers and cooler/dispenser, are the property of the commercial water delivery service or the City of La Crosse. By signing below, the Occupant of the above referenced property acknowledges that all reusable or returnable equipment and supplies shall be returned to the commercial water delivery service or the City of La Crosse upon request. The Occupant agrees to provide reasonable access for delivery of bottled water and pick up of reusable or returnable equipment and supplies. Occupant(s) acknowledges that they may be required to sign an agreement with the commercial water delivery service as a condition of receiving bottled water.***

Check ownership:

\_\_\_\_\_ Owner-Occupant

\_\_\_\_\_ Occupant Only

Number of Occupants: \_\_\_\_\_

Signed: \_\_\_\_\_ Dated: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Phone Number: (\_\_\_\_\_) \_\_\_\_\_

# PFAS by LC/MS/MS

Client: **Pace Analytical Services, LLC**

Laboratory ID: **WD13014-001**

Description: **380-0**

Matrix: **Aqueous**

Date Sampled: **04/06/2021 1411**

Project Name: **LACROSSE WELLS 23 & 24**

Date Received: **04/13/2021**

Project Number: **40224847**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	04/15/2021 2228	MMM	04/13/2021 1617	88894

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		7.5	0.45	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		7.5	0.62	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		7.5	1.5	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		7.5	1.9	ng/L	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		7.5	1.1	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		7.5	0.82	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		7.5	1.9	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		7.5	0.45	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		7.5	1.3	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		7.5	0.70	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		7.5	0.89	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		15	1.2	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		7.5	0.87	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		7.5	1.2	ng/L	1
<b>Perfluoro-1-butanesulfonic acid (PFBS)</b>	<b>375-73-5</b>	<b>PFAS by ID SOP</b>	<b>6.0</b>		<b>3.7</b>	<b>0.39</b>	<b>ng/L</b>	<b>1</b>
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.7	0.73	ng/L	1
<b>Perfluoro-1-heptanesulfonic acid (PFHpS)</b>	<b>375-92-8</b>	<b>PFAS by ID SOP</b>	<b>0.77</b>	<b>J</b>	<b>3.7</b>	<b>0.47</b>	<b>ng/L</b>	<b>1</b>
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.7	0.67	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.7	0.57	ng/L	1
<b>Perfluoro-1-pentanesulfonic acid (PFPeS)</b>	<b>2706-91-4</b>	<b>PFAS by ID SOP</b>	<b>4.2</b>		<b>3.7</b>	<b>0.56</b>	<b>ng/L</b>	<b>1</b>
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		7.5	0.98	ng/L	1
<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>355-46-4</b>	<b>PFAS by ID SOP</b>	<b>9.5</b>		<b>3.7</b>	<b>0.52</b>	<b>ng/L</b>	<b>1</b>
<b>Perfluoro-n-butanoic acid (PFBA)</b>	<b>375-22-4</b>	<b>PFAS by ID SOP</b>	<b>120</b>	<b>B</b>	<b>3.7</b>	<b>0.56</b>	<b>ng/L</b>	<b>1</b>
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.7	0.49	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.7	0.44	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		3.7	0.42	ng/L	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		7.5	0.76	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		3.7	0.64	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.7	0.43	ng/L	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		7.5	0.94	ng/L	1
<b>Perfluoro-n-octanoic acid (PFOA)</b>	<b>335-67-1</b>	<b>PFAS by ID SOP</b>	<b>12</b>		<b>3.7</b>	<b>0.78</b>	<b>ng/L</b>	<b>1</b>
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		3.7	0.51	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.7	0.56	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.7	0.50	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.7	0.59	ng/L	1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>1763-23-1</b>	<b>PFAS by ID SOP</b>	<b>8.4</b>		<b>3.7</b>	<b>1.9</b>	<b>ng/L</b>	<b>1</b>

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		114	25-150
13C2_6:2FTS		110	25-150
13C2_8:2FTS		106	25-150
13C2_PFDaA		112	25-150
13C2_PFHxDA		111	25-150
13C2_PFTeDA		108	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: <b>Pace Analytical Services, LLC</b>	Laboratory ID: <b>WD13014-001</b>
Description: <b>380-0</b>	Matrix: <b>Aqueous</b>
Date Sampled: <b>04/06/2021 1411</b>	Project Name: <b>LACROSSE WELLS 23 &amp; 24</b>
Date Received: <b>04/13/2021</b>	Project Number: <b>40224847</b>

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBs		98	25-150
13C3_PFHxS		108	25-150
13C3-HFPO-DA		110	25-150
13C4_PFBa		110	25-150
13C4_PFHpA		109	25-150
13C5_PFHxA		111	25-150
13C5_PFPeA		109	25-150
13C6_PFDA		109	25-150
13C7_PFUdA		102	25-150
13C8_PFOA		111	25-150
13C8_PFOS		102	25-150
13C8_PFOSA		111	10-150
13C9_PFNA		112	25-150
d-EtFOSA		85	10-150
d5-EtFOSAA		101	25-150
d9-EtFOSE		96	10-150
d-MeFOSA		104	10-150
d3-MeFOSAA		111	25-150
d7-MeFOSE		100	10-150

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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

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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