Grittner, Paul V - DNR

From: Dave Lennon <dmlennon@yahoo.com>
Sent: Monday, November 25, 2024 1:11 PM
To: Grittner, Paul V - DNR; Timm P. Speerschneider
Subject: Re: WI DOT Lake Arterial - Auto Wreckers
Attachments: DRAFT PFAS GW Results 11-25-24.pdf; 2024-10-16 GW PFAS Lab Report.pdf

CAUTION: This email originated from outside the organization.
Do not click links or open attachments unless you recognize the sender and know the content is safe.

Paul,

We sampled the wells for PFAS in October...same locations as in May 2024. Attached are the Draft table and lab report for your record.

Thanks,

Dave Lennon, P.E.
Senior Project Manager
Moraine Environmental
Cell: 262-844-5343
Office: 262-692-3345

On Thursday, November 7, 2024 at 11:31:19 AM CST, Dave Lennon <dmlennon@yahoo.com> wrote:

Hi Paul,

I have inspected the drainage swale/ditch more than a few times over the past few years. There are no pipes or other outlets of storm water discharge which enter the ditch.

With respect to storm sewer manholes, there are no storm water inlets present on either the north or south parcels. There is the storm sewer manhole you described near the north driveway entrance of the salvage yard on the south parcel, but it is a solid lid and not a storm water inlet. It leads to a deeper storm sewer which runs N-S along the east property boundary. This solid manhole is actually the intersection of the labelled storm sewer line coming out of the ditch and then proceeding north parallel to Pennsylvania Ave., as shown on our base map, just inside the fence line.

Please let me know if you have any additional questions.

Thank You,

Dave Lennon, P.E.
Senior Project Manager
Moraine Environmental
Cell: 262-844-5343

Office: 262-692-3345

On Thursday, November 7, 2024 at 10:11:01 AM CST, Moraine Environmental, Inc. <moraine@execpc.com> wrote:

-------- Forwarded Message --------
Subject: FW: WI DOT Lake Arterial - Auto Wreckers
Date: Wed, 6 Nov 2024 21:25:13 +0000
From: Grittner, Paul V - DNR <Paul.Grittner@wisconsin.gov>
To: Moraine Environmental Inc. <moraine@execpc.com>

SUBJECT: Request for Technical Assistance

WI DOT Lake Arterial – Auto Wreckers, 4043 S. Pennsylvania Avenue, St. Francis, WI

WDNR BRRTS Activity #: 02-41-000269

FID #: 241469250

Dave,

The Department of Natural Resources has a few additional questions regarding the stormwater management at this site.

1. Can you confirm that that there are no outlets within the ditch that separates the southern and northern parcel that would allow water to enter the storm sewer?
2. Can you confirm that there are no onsite storm sewer manholes? Google maps shows a manhole within the northern driveway into the southern parcel – what does this manhole lead to?

This information will be helpful for finalizing our response to your request.

Please contact me at the number or email below if you have any questions.

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Paul Grittner
Phone: 414-405-0764

paul.grittner@wisconsin.gov

*From:*Grittner, Paul V - DNR
Sent: Wednesday, October 09, 2024 11:30 AM
To: moraine@execpc.com
Subject: Interim Action - WI DOT Lake Arterial - Auto Wreckers

Dave,

On June 16, 2023, a /NR 722 Remedial Action Options Report & Status Update / was submitted to the Department of Natural Resources (DNR) requesting approval of proposed interim actions at the WI DOT Lake Arterial – Auto Wreckers site (02-41-000269). These were intended to reduce exposure to contamination present on the southern portion of the site.

On August 10, 2023, the DNR requested additional steps be taken to demonstrate that the proposed interim actions would reduce risk posed by residual contamination:

"The interim actions proposed in the RAOR to prevent direct contact with residual surface contamination

include maintaining the fence around the property, using signage to warn away people, and ensuring

that current work practices (which require minimal worker time in the yard) are followed. The DNR

would approve these steps to address the direct contact risk if it is demonstrated that current conditions

are protective (the fence in is good shape, signage is in place, procedures are in place limiting outdoor

working hours, etc.). Demonstrating this requires that photos and descriptions of these site features

and procedures be provided. These actions would not prevent the discharge of PCB contamination to

the storm sewer. Additional actions must be proposed to prevent this. Additionally. interim actions

cannot be approved until an inspection and maintenance plan is provided that describes how site

features will be inspected and maintained and how work hours and activities in the yard will be limited."

The DNR would still consider approving the interim actions if this additional information is provided. Once approved, we could subdivide the site into two new sites so that the northern and southern parcels could be addressed separately, if that would still be helpful.

Please confirm whether approval of the interim actin will be pursued, and provide an update as to when the requested information will be provided.

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Paul Grittner
Hydrogeologist – Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
Phone: 414-405-0764
paul.grittner@wisconsin.gov

<http://dnr.wi.gov/>_dnr.wi.gov
_<http://facebook.com/WIDNR><https://instagram.com/wi_dnr><http://youtube.com/user/WIDNRTV><https://public.govdelivery.com/accounts/WIDNR/subscriber/new>

Table A.1.e.
Groundwater Analytical Results - PFAS

St. Francis Auto Wreckers
4043 S. Pennsylvania Avenue, St. Francis, WI 53235

	N Vacant Lot at 4005 S Pennsylvania Ave																Locations on Former D-F Propertry at 2517 E Norwich Ave											
Well ID				Nested Wells MW-3B & PZ-1													Nested Wells MW-5 & MPZ-3											
	MW-2			**MW-3B**				**PZ-1**				**MW-6**					**MW-5**		**MPZ-3**		**MW-6**		**Field Blank**				EPA Maximum Contaminant Level (MCL)/ EPA MCL (4/10/24) to be promulgated by DNR
Collection Date	2/4/20	5/8/24	10/16/24	9/26/19	2/4/20	5/8/24	10/16/24	9/26/19	2/4/20	5/8/24	10/16/24	9/26/19	2/4/20	5/8/24	10/16/24		5/8/24	10/16/24	5/8/24	10/16/24	5/8/24	10/16/24	9/26/19	2/4/20	5/8/24	10/16/24	
PFAS Compounds (ng/L)																											
Perfluorobutanoic Acid (PFBA)	61	24.1	<0.53	<0.29	27	112	141	120	93	<0.28	<0.55	99	75	99.5	123		21.2	18.6	3.8	8.3	38.9	105	<0.31	0.49 J	<0.28	<0.28	
Perfluoropentanoic Acid (PFPeA)	65	37.2	30.7	81	35	74.4	101	<0.42	62	61.8	31.2	<0.42	73	47.6	81.9		40.1	50.0	2.4	<0.19	74.7	121	<0.43	<0.47	<0.18	<0.18	
Perfluorohexanoic Acid (PFHxA)	73	49.7	41.4	71	37	42.1	73.8	78	71	61.1	39.3	81	82	51.1	68.0		26.8	34.2	4.1	5.5	41.7	65.0	<0.51	<0.55	<0.38	<0.38	
Perfluoroheptanoic Acid (PFHpA)	51	40.4	34.4	56	44	39.2	58.0	50	57	44.1	33.4	57	63	42.7	57.6		15.2	20.6	1.1 J	1.4 J	27.5	41.1	<0.22	<0.24	<0.23	<0.23	
Perfluorooctanoic Acid (PFOA)	**640**	**947**	**719**	**62**	**49**	**51.1**	**115**	**280**	**290**	**275**	**690**	**200**	**250**	**146**	**219**		**11.8**	**17.8**	**4.3**	**5.1**	**36.5**	**62.4**	<0.75	<0.81	<0.27	<0.27	70/4
Perfluorononanoic Acid (PFNA)	4.5	5.4	3.7 J	<0.22	0.52 J	<1.1	2.9 J	<0.23	1.1 J	0.69 J	3.5 J	2.8	2.3	1.9 J	3.1 J		0.27 J	<0.21	0.22 J	0.32 J	1.2 J	<2.1	<0.24	<0.26	<0.21	<0.21	--/10
Perfluorodecanoic Acid (PFDA)	0.38 J	0.28 J	0.55 J	<0.26	<0.27	<1.3	<1.3	<0.27	<0.26	<0.25	<0.49	<0.26	<2.6	<0.52	<1.2		<0.25	<0.25	0.62 J	0.73 J	<0.50	<2.5	<0.27	<0.30	<0.25	<0.25	
Perfluoroundecanoic Acid (PFUnA)	<0.91	<0.64	<1.2	<0.91	<0.95	<3.3	<3.2	<0.95	<0.91	<0.65	<1.2	<0.94	<0.93	<1.3	<3.2		<0.63	<0.63	<0.64	<0.66	<1.3	<6.3	<0.97	<1.0	<0.64	<0.64	
Perfluorododecanoic Acid (PFDoA)	<0.45	<0.44	<0.81	<0.45	<0.48	<2.3	<2.2	<0.48	<0.46	<0.44	<0.84	<0.47	<0.46	<0.90	<2.1		<0.42	<0.43	<0.43	<0.45	<0.86	<4.2	<0.49	<0.52	<0.43	<0.43	
Perfluorotridecanoic Acid (PFTrDA)	<1.1	<0.28	<0.53	<1.1	<1.1	<1.5	<1.4	<1.1	<1.1	<0.29	<0.55	<1.1	<1.1	<0.59	<1.4		<0.28	<0.28	<0.28	<0.29	<0.56	<2.8	<1.2	<1.2	<0.28	<0.28	
Perfluorotetradecanoic Acid (PFTeDA)	<0.24	<0.36	<0.68	0.33 J	<0.25	<1.9	<1.8	0.40 J	<0.24	<0.37	<0.70	<0.25	<0.24	<0.75	<1.8		<0.35	<0.36	<0.36	<0.37	<0.72	<3.5	<0.26	<0.28	<0.36	<0.36	
Perfluoro-n-hexadecanoic Acid (PFHxDA)	<0.73	--	--	<0.73	<0.77	--	--	<0.77	<0.74	--	--	<0.76	<0.75	--	--		--	--	--	--	--	--	<0.79	<0.85	--	--	
Perfluorobutanesulfonic Acid (PFBS)	5.8	8.6	11.9	<0.16	2.9	3.1 J	**37.4**	<0.17	**27**	**22.9**	9.1	<0.17	**24**	**15.5**	**28.3**		1.3 J	2.0	0.96 J	1.7 J	5.0	6.4 J	<0.18	<0.19	<0.20	<0.20	--/10
Perfluoro-n-octadecanoic Acid (PFODA)	<0.38	--	--	<0.38	<0.40	--	--	<0.40	<0.38	--	--	<0.39	<0.39	--	--		--	--	--	--	--	--	<0.41	<0.44	--	--	
Perfluoropentanesulfonic Acid (PFPeS)	11	10.6	9.0	<0.25	1.6 J	<1.3	22.8	21	35	26.3	8.2	16	38	20.2	28.1		<0.25	0.37 J	<0.26	0.32 J	0.84 J	<2.5	<0.27	<0.29	<0.25	<0.25	
Perfluorohexanesulfonic Acid (PFHxS)	**44**	**39.6**	**38.7**	**26**	7.4	6.6 J	**125**	**57**	**63**	**67.4**	**37.8**	**96**	**85**	**65.9**	**109**		0.74 J	1.2 J	1.3 J	1.7 J	3.2 J	5.2 J	0.23 J	0.34 J	<0.23	<0.23	--/10
Perfluoroheptanesulfonic Acid (PFHpS)	65	8	8.9	<0.16	<0.16	<3.3	4.9 J	8.3	11	12	7.6	7.8	12	6.2	12.6		<0.62	<0.62	<0.63	<0.65	<1.3	<6.2	<0.17	<0.18	<0.63	<0.63	
Perfluorooctanesulfonic Acid (PFOS)	**300**	**330**	**337**	**19**	**22**	**37.1**	**78.4**	**330**	**360**	**451**	**344**	**210**	**260**	**193**	**321**		1.1 J	1.1 J	**4.6**	**5.4**	**10.0**	**15.1 J**	<0.48	<0.51	<0.51	<0.51	70/4
Perfluorononanesulfonic Acid (PFNS)	<0.13	<0.48	<0.89	<0.13	<0.14	<2.5	<2.4	<0.14	<0.13	0.58 J	<0.92	<0.14	<0.13	<0.98	<2.3		<0.46	<0.47	<0.47	<0.49	<0.95	<4.7	<0.14	<0.15	<0.47	<0.47	
Perfluorodecanesulfonic Acid (PFDS)	<0.26	<0.57	<1.1	<0.26	<0.28	<3.0	<2.9	<0.28	<0.27	1.9 J	<1.1	<0.27	<0.27	<1.2	<2.8		<0.56	<0.56	1.4 J	<0.59	<1.1	<5.5	<0.28	<0.30	<0.57	<0.57	
Perfluorooctanesulfonamide (PFOSA)	1.0 J	<0.40	<0.75	0.45 J	0.82 J	<2.1	<2.0	0.44 J	0.46 J	4.9	<0.78	<0.30	0.50 J	<0.83	<2.0		<0.39	<0.39	<0.40	<0.41	<0.80	<3.9	<0.31	0.47 J	<0.40	<0.40	
N-methylperfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	<2.6	<0.79	<1.5	<2.6	<2.7	<4.1	<4.0	<2.7	<2.6	<0.79	<1.5	<2.6	<2.6	<1.6	<3.9		<0.76	<0.77	2.2	2.5	<1.6	<7.7	<2.7	<3.0	<0.78	<0.78	
N-ethylperfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	7.3 J	8.3	6.7	<1.6	<1.6	<3.0	<2.9	96	110	18.5	5.6	7.2 J	<16	5.8	6.6 J		<0.56	<0.56	0.58 J	<0.59	<1.1	<5.6	<1.7	<1.8	<0.57	<0.57	
4:2 FTS	<4.3	<0.37	<0.68	<4.3	<45	<1.9	<1.8	<4.5	<43	<0.37	<0.71	<4.4	<44	<0.75	<1.8		<0.36	<0.36	<0.36	<0.37	<0.73	<3.6	<4.6	<5.0	<0.36	<0.36	
6:2 FTS	<1.6	<0.57	3.2 J	<1.6	<17	<3.0	3.4 J	<1.7	<17	<0.58	<1.1	<1.7	<17	1.6 J	<2.8		<0.56	<0.56	0.63 J	1.3 J	<1.1	<5.6	<1.8	<1.9	<0.57	<0.57	
8:2 FTS	<1.6	<0.79	<1.5	<1.6	<17	<4.1	<4.0	<1.7	<17	<0.80	<1.5	<1.7	<17	<1.6	<3.9		<0.77	<0.78	<0.79	<0.81	<1.6	<7.7	<1.8	<1.9	<0.79	<0.79	
NEtFOSA	<0.72	<0.46	<0.85	<0.72	<0.75	<2.4	<2.3	<0.75	<0.72	<0.46	<0.89	<0.74	<0.73	<0.94	<2.2		<0.45	<0.45	<0.46	<0.47	<0.91	<4.5	<0.77	<0.83	<0.45	<0.45	
NMeFOSA	<0.35	<0.63	<1.2	<0.35	<0.37	<3.3	<3.2	<0.37	<0.36	<0.63	<1.2	<0.37	<0.36	<1.3	<3.1		<0.61	<0.62	<0.63	<0.65	<1.3	<6.1	<0.38	<0.41	<0.62	<0.62	
NMeFOSE	<1.2	<0.48	<0.90	<1.2	<1.2	<2.5	<2.4	<1.2	<1.2	<0.49	<0.94	<1.2	<1.2	<1.0	<2.4		<0.47	<0.48	<0.60	<0.50	<0.96	<4.7	<1.2	<1.3	<0.48	<0.48	
NEtFOSE	<0.70	<0.60	<1.1	<0.70	<0.74	<3.1	<3.0	<0.74	<0.71	<0.61	<1.2	<0.73	<0.72	<1.2	<3.0		<0.59	<0.59	<0.48	<0.62	<1.2	<5.9	<0.75	<0.81	<0.60	<0.60	
Perfluorododecanesulfonic Acid (PFDoS)	<0.37	<0.54	<1.0	<0.37	<0.39	<2.8	<2.7	<0.398	<0.37	<0.54	<1.0	<0.38	<0.38	<1.1	<2.6		<0.52	<0.53	<0.53	<0.55	<1.1	<5.2	<0.40	<0.43	<0.53	<0.53	
F-53B Major (9Cl-PF3ONS)	<0.20	<0.36	<0.66	<0.20	<0.21	<1.8	<1.8	<0.21	<0.20	<0.36	<0.69	<0.20	<0.20	<0.73	<1.7		<0.35	<0.35	<0.35	<0.36	<0.71	<3.5	<0.21	<0.23	<0.35	<0.35	
HFPO-DA (GenX)	<1.2	<0.25	<0.47	<1.2	<1.3	<1.3	<1.3	<1.3	<1.2	0.52 J	<0.49	<1.3	<1.3	0.63 J	<1.2		<0.25	<0.25	<0.25	<0.26	<0.50	<2.5	<1.3	<1.4	<0.25	<0.25	--/10
F-53B Minor (11Cl-PF3OUdS)	<0.26	<0.41	<0.76	<0.26	<0.28	<2.1	<2.1	<0.28	<0.27	<0.41	<0.79	<0.27	<0.27	<0.84	<2.0		<0.40	<0.40	<0.41	<0.42	<0.81	<4.0	<0.28	<0.30	<0.40	<0.40	
10:2 FTS	<0.16	--	--	<0.16	<1.6	--	--	<0.16	<1.6	--	--	<0.16	<1.6	--	--		--	--	--	--	--	--	<0.17	<0.18	--	--	
DONA or ADONA	<0.15	<0.32	<0.60	<0.15	<0.16	<1.7	<1.6	<0.16	<0.15	<0.33	<0.62	<0.15	<0.15	<0.66	<1.6		<0.31	<0.32	<0.32	<0.33	<0.64	<3.1	<0.16	<0.17	<0.32	<0.32	

All values expressed in ng/L (nanograms per liter).
PAL - Preventive Action Limit
ES - Enforcement Standard
--- - sample not analyzed for this parameter
NS - No Standard established for this analyte
ND - Not Detected
< - less than the laboratory method detection limit (MDL)
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
Bold - Identifies exceedance of EPA Maximum Contaminant Level yet to be promulgated by WDNR

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

November 18, 2024

Tom Sweet
Moraine Environmental, Inc.
766 Tower Drive
Fredonia, WI 53021

RE: Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

Dear Tom Sweet:

Enclosed are the analytical results for sample(s) received by the laboratory on October 18, 2024. 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:

- Pace Analytical Services - Minneapolis

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

cc: Dave Lennon, Moraine Environmental, Inc.

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

CERTIFICATIONS

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

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

SAMPLE SUMMARY

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40286024001	**MW-2**	Water	10/16/24 00:00	10/18/24 08:00
40286024002	**MW-3B**	Water	10/16/24 00:00	10/18/24 08:00
40286024003	**MW-6**	Water	10/16/24 00:00	10/18/24 08:00
40286024004	**PZ-1**	Water	10/16/24 00:00	10/18/24 08:00
40286024005	**MW-5 DF**	Water	10/16/24 00:00	10/18/24 08:00
40286024006	**MW-6 DF**	Water	10/16/24 00:00	10/18/24 08:00
40286024007	**MPZ-3**	Water	10/16/24 00:00	10/18/24 08:00
40286024008	**FIELD BLANK**	Water	10/16/24 00:00	10/18/24 08:00

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SAMPLE ANALYTE COUNT

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40286024001	**MW-2**	ENV-SOP-MIN4-0178	MJL, NBH	58	PASI-M
40286024002	**MW-3B**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
40286024003	**MW-6**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
40286024004	**PZ-1**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
40286024005	**MW-5 DF**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
40286024006	**MW-6 DF**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
40286024007	**MPZ-3**	ENV-SOP-MIN4-0178	MJL	58	PASI-M
40286024008	**FIELD BLANK**	ENV-SOP-MIN4-0178	MJL	58	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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SUMMARY OF DETECTION

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40286024001	**MW-2**					
ENV-SOP-MIN4-0178	6:2 FTS	3.2J	ng/L	3.6	11/13/24 20:23	
ENV-SOP-MIN4-0178	NEtFOSAA	6.7	ng/L	3.8	11/13/24 20:23	
ENV-SOP-MIN4-0178	PFBS	11.9	ng/L	3.3	11/13/24 20:23	
ENV-SOP-MIN4-0178	PFDA	0.55J	ng/L	3.8	11/13/24 20:23	
ENV-SOP-MIN4-0178	PFHxA	41.4	ng/L	3.8	11/13/24 20:23	
ENV-SOP-MIN4-0178	PFHpS	8.9	ng/L	3.6	11/13/24 20:23	
ENV-SOP-MIN4-0178	PFPeA	30.7	ng/L	3.8	11/13/24 20:23	
ENV-SOP-MIN4-0178	PFPeS	9.0	ng/L	3.5	11/13/24 20:23	
ENV-SOP-MIN4-0178	PFHpA	34.4	ng/L	3.8	11/13/24 20:23	
ENV-SOP-MIN4-0178	PFHxS	38.7	ng/L	3.4	11/13/24 20:23	
ENV-SOP-MIN4-0178	PFNA	3.7J	ng/L	3.8	11/13/24 20:23	
ENV-SOP-MIN4-0178	PFOS	337	ng/L	3.5	11/13/24 20:23	
ENV-SOP-MIN4-0178	PFOA	719	ng/L	37.5	11/14/24 14:37	
40286024002	**MW-3B**					
ENV-SOP-MIN4-0178	6:2 FTS	3.4J	ng/L	9.6	11/13/24 20:44	
ENV-SOP-MIN4-0178	PFBS	37.4	ng/L	9.0	11/13/24 20:44	
ENV-SOP-MIN4-0178	PFHxA	73.8	ng/L	10.2	11/13/24 20:44	
ENV-SOP-MIN4-0178	PFBA	141	ng/L	10.2	11/13/24 20:44	
ENV-SOP-MIN4-0178	PFHpS	4.9J	ng/L	9.6	11/13/24 20:44	
ENV-SOP-MIN4-0178	PFPeA	101	ng/L	10.2	11/13/24 20:44	
ENV-SOP-MIN4-0178	PFPeS	22.8	ng/L	9.5	11/13/24 20:44	
ENV-SOP-MIN4-0178	PFHpA	58.0	ng/L	10.2	11/13/24 20:44	
ENV-SOP-MIN4-0178	PFHxS	125	ng/L	9.2	11/13/24 20:44	
ENV-SOP-MIN4-0178	PFNA	2.9J	ng/L	10.2	11/13/24 20:44	
ENV-SOP-MIN4-0178	PFOS	78.4	ng/L	9.4	11/13/24 20:44	
ENV-SOP-MIN4-0178	PFOA	115	ng/L	10.2	11/13/24 20:44	
40286024003	**MW-6**					
ENV-SOP-MIN4-0178	NEtFOSAA	6.6J	ng/L	9.9	11/08/24 16:10	
ENV-SOP-MIN4-0178	PFBS	28.3	ng/L	8.7	11/08/24 16:10	
ENV-SOP-MIN4-0178	PFHxA	68.0	ng/L	9.9	11/08/24 16:10	
ENV-SOP-MIN4-0178	PFBA	123	ng/L	9.9	11/08/24 16:10	
ENV-SOP-MIN4-0178	PFHpS	12.6	ng/L	9.4	11/08/24 16:10	
ENV-SOP-MIN4-0178	PFPeA	81.9	ng/L	9.9	11/08/24 16:10	
ENV-SOP-MIN4-0178	PFPeS	28.1	ng/L	9.3	11/08/24 16:10	
ENV-SOP-MIN4-0178	PFHpA	57.6	ng/L	9.9	11/08/24 16:10	
ENV-SOP-MIN4-0178	PFHxS	109	ng/L	9.0	11/08/24 16:10	
ENV-SOP-MIN4-0178	PFNA	3.1J	ng/L	9.9	11/08/24 16:10	
ENV-SOP-MIN4-0178	PFOS	321	ng/L	9.1	11/08/24 16:10	
ENV-SOP-MIN4-0178	PFOA	219	ng/L	9.9	11/08/24 16:10	
40286024004	**PZ-1**					
ENV-SOP-MIN4-0178	NEtFOSAA	5.6	ng/L	3.9	11/08/24 16:17	
ENV-SOP-MIN4-0178	PFBS	9.1	ng/L	3.4	11/08/24 16:17	
ENV-SOP-MIN4-0178	PFHxA	39.3	ng/L	3.9	11/08/24 16:17	
ENV-SOP-MIN4-0178	PFHpS	7.6	ng/L	3.7	11/08/24 16:17	
ENV-SOP-MIN4-0178	PFPeA	31.2	ng/L	3.9	11/08/24 16:17	
ENV-SOP-MIN4-0178	PFPeS	8.2	ng/L	3.7	11/08/24 16:17	

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

SUMMARY OF DETECTION

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40286024004	**PZ-1**					
ENV-SOP-MIN4-0178	PFHpA	33.4	ng/L	3.9	11/08/24 16:17	
ENV-SOP-MIN4-0178	PFHxS	37.8	ng/L	3.5	11/08/24 16:17	
ENV-SOP-MIN4-0178	PFNA	3.5J	ng/L	3.9	11/08/24 16:17	
ENV-SOP-MIN4-0178	PFOS	344	ng/L	3.6	11/08/24 16:17	
ENV-SOP-MIN4-0178	PFOA	690	ng/L	39.0	11/11/24 12:06	
40286024005	**MW-5 DF**					
ENV-SOP-MIN4-0178	PFBS	2.0	ng/L	1.8	11/11/24 11:59	
ENV-SOP-MIN4-0178	PFHxA	34.2	ng/L	2.0	11/11/24 11:59	
ENV-SOP-MIN4-0178	PFBA	18.6	ng/L	2.0	11/11/24 11:59	
ENV-SOP-MIN4-0178	PFPeA	50.0	ng/L	2.0	11/11/24 11:59	
ENV-SOP-MIN4-0178	PFPeS	0.37J	ng/L	1.9	11/11/24 11:59	
ENV-SOP-MIN4-0178	PFHpA	20.6	ng/L	2.0	11/11/24 11:59	
ENV-SOP-MIN4-0178	PFHxS	1.2J	ng/L	1.8	11/11/24 11:59	
ENV-SOP-MIN4-0178	PFOS	1.1J	ng/L	1.8	11/11/24 11:59	
ENV-SOP-MIN4-0178	PFOA	17.8	ng/L	2.0	11/11/24 11:59	
40286024006	**MW-6 DF**					
ENV-SOP-MIN4-0178	PFBS	6.4J	ng/L	17.4	11/08/24 16:31	
ENV-SOP-MIN4-0178	PFHxA	65.0	ng/L	19.6	11/08/24 16:31	
ENV-SOP-MIN4-0178	PFBA	105	ng/L	19.6	11/08/24 16:31	
ENV-SOP-MIN4-0178	PFPeA	121	ng/L	19.6	11/08/24 16:31	
ENV-SOP-MIN4-0178	PFHpA	41.1	ng/L	19.6	11/08/24 16:31	
ENV-SOP-MIN4-0178	PFHxS	5.2J	ng/L	17.9	11/08/24 16:31	
ENV-SOP-MIN4-0178	PFOS	15.1J	ng/L	18.2	11/08/24 16:31	
ENV-SOP-MIN4-0178	PFOA	62.4	ng/L	19.6	11/08/24 16:31	
40286024007	**MPZ-3**					
ENV-SOP-MIN4-0178	6:2 FTS	1.3J	ng/L	2.0	11/08/24 16:39	
ENV-SOP-MIN4-0178	NMeFOSAA	2.5	ng/L	2.1	11/08/24 16:39	
ENV-SOP-MIN4-0178	PFBS	1.7J	ng/L	1.8	11/08/24 16:39	
ENV-SOP-MIN4-0178	PFDA	0.73J	ng/L	2.1	11/08/24 16:39	
ENV-SOP-MIN4-0178	PFHxA	5.5	ng/L	2.1	11/08/24 16:39	
ENV-SOP-MIN4-0178	PFBA	8.3	ng/L	2.1	11/08/24 16:39	
ENV-SOP-MIN4-0178	PFPeS	0.32J	ng/L	1.9	11/08/24 16:39	
ENV-SOP-MIN4-0178	PFHpA	1.4J	ng/L	2.1	11/08/24 16:39	
ENV-SOP-MIN4-0178	PFHxS	1.7J	ng/L	1.9	11/08/24 16:39	
ENV-SOP-MIN4-0178	PFNA	0.32J	ng/L	2.1	11/08/24 16:39	
ENV-SOP-MIN4-0178	PFOS	5.4	ng/L	1.9	11/08/24 16:39	
ENV-SOP-MIN4-0178	PFOA	5.1	ng/L	2.1	11/08/24 16:39	

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

ANALYTICAL RESULTS

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

Sample: MW-2 **Lab ID: 40286024001** Collected: 10/16/24 00:00 Received: 10/18/24 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.76**	ng/L	3.5	0.76	1	11/12/24 13:57	11/13/24 20:23	763051-92-9	
4:2 FTS	**<0.68**	ng/L	3.5	0.68	1	11/12/24 13:57	11/13/24 20:23	757124-72-4	
6:2 FTS	**3.2J**	ng/L	3.6	1.1	1	11/12/24 13:57	11/13/24 20:23	27619-97-2	
8:2 FTS	**<1.5**	ng/L	3.6	1.5	1	11/12/24 13:57	11/13/24 20:23	39108-34-4	
9Cl-PF3ONS	**<0.66**	ng/L	3.5	0.66	1	11/12/24 13:57	11/13/24 20:23	756426-58-1	
ADONA	**<0.60**	ng/L	3.5	0.60	1	11/12/24 13:57	11/13/24 20:23	919005-14-4	
HFPO-DA	**<0.47**	ng/L	3.8	0.47	1	11/12/24 13:57	11/13/24 20:23	13252-13-6	
NEtFOSAA	**6.7**	ng/L	3.8	1.1	1	11/12/24 13:57	11/13/24 20:23	2991-50-6	
NEtFOSA	**<0.85**	ng/L	3.8	0.85	1	11/12/24 13:57	11/13/24 20:23	4151-50-2	
NEtFOSE	**<1.1**	ng/L	3.8	1.1	1	11/12/24 13:57	11/13/24 20:23	1691-99-2	
NMeFOSAA	**<1.5**	ng/L	3.8	1.5	1	11/12/24 13:57	11/13/24 20:23	2355-31-9	
NMeFOSA	**<1.2**	ng/L	3.8	1.2	1	11/12/24 13:57	11/13/24 20:23	31506-32-8	
NMeFOSE	**<0.90**	ng/L	3.8	0.90	1	11/12/24 13:57	11/13/24 20:23	24448-09-7	
PFBS	**11.9**	ng/L	3.3	0.38	1	11/12/24 13:57	11/13/24 20:23	375-73-5	
PFDA	**0.55J**	ng/L	3.8	0.47	1	11/12/24 13:57	11/13/24 20:23	335-76-2	
PFHxA	**41.4**	ng/L	3.8	0.71	1	11/12/24 13:57	11/13/24 20:23	307-24-4	
PFBA	**<0.53**	ng/L	3.8	0.53	1	11/12/24 13:57	11/13/24 20:23	375-22-4	
PFDS	**<1.1**	ng/L	3.6	1.1	1	11/12/24 13:57	11/13/24 20:23	335-77-3	
PFDoS	**<1.0**	ng/L	3.6	1.0	1	11/12/24 13:57	11/13/24 20:23	79780-39-5	
PFHpS	**8.9**	ng/L	3.6	1.2	1	11/12/24 13:57	11/13/24 20:23	375-92-8	
PFNS	**<0.89**	ng/L	3.6	0.89	1	11/12/24 13:57	11/13/24 20:23	68259-12-1	
PFOSA	**<0.75**	ng/L	3.8	0.75	1	11/12/24 13:57	11/13/24 20:23	754-91-6	
PFPeA	**30.7**	ng/L	3.8	0.34	1	11/12/24 13:57	11/13/24 20:23	2706-90-3	
PFPeS	**9.0**	ng/L	3.5	0.48	1	11/12/24 13:57	11/13/24 20:23	2706-91-4	
PFDoA	**<0.81**	ng/L	3.8	0.81	1	11/12/24 13:57	11/13/24 20:23	307-55-1	
PFHpA	**34.4**	ng/L	3.8	0.44	1	11/12/24 13:57	11/13/24 20:23	375-85-9	
PFHxS	**38.7**	ng/L	3.4	0.44	1	11/12/24 13:57	11/13/24 20:23	355-46-4	
PFNA	**3.7J**	ng/L	3.8	0.39	1	11/12/24 13:57	11/13/24 20:23	375-95-1	
PFOS	**337**	ng/L	3.5	0.96	1	11/12/24 13:57	11/13/24 20:23	1763-23-1	
PFOA	**719**	ng/L	37.5	5.0	10	11/12/24 13:57	11/14/24 14:37	335-67-1	
PFTeDA	**<0.68**	ng/L	3.8	0.68	1	11/12/24 13:57	11/13/24 20:23	376-06-7	
PFTrDA	**<0.53**	ng/L	3.8	0.53	1	11/12/24 13:57	11/13/24 20:23	72629-94-8	
PFUnA	**<1.2**	ng/L	3.8	1.2	1	11/12/24 13:57	11/13/24 20:23	2058-94-8	
Surrogates									
13C4-PFBA (S)	33	%.	25-150		1	11/12/24 13:57	11/13/24 20:23		
13C5-PFPeA (S)	37	%.	25-150		1	11/12/24 13:57	11/13/24 20:23		
13C3-PFBS (S)	56	%.	25-150		1	11/12/24 13:57	11/13/24 20:23		
13C24:2FTS (S)	141	%.	25-150		1	11/12/24 13:57	11/13/24 20:23		
13C3HFPO-DA (S)	42	%.	25-150		1	11/12/24 13:57	11/13/24 20:23		
13C4-PFHpA (S)	63	%.	25-150		1	11/12/24 13:57	11/13/24 20:23		
13C3-PFHxS (S)	66	%.	25-150		1	11/12/24 13:57	11/13/24 20:23		
13C26:2FTS (S)	178	%.	25-150		1	11/12/24 13:57	11/13/24 20:23		S0
13C8-PFOA (S)	58	%.	25-150		1	11/12/24 13:57	11/13/24 20:23		
13C8-PFOS (S)	74	%.	25-150		1	11/12/24 13:57	11/13/24 20:23		
13C9-PFNA (S)	62	%.	25-150		1	11/12/24 13:57	11/13/24 20:23		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

Sample: MW-2 **Lab ID: 40286024001** Collected: 10/16/24 00:00 Received: 10/18/24 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	77	%.	25-150		1	11/12/24 13:57	11/13/24 20:23		
13C28:2FTS (S)	209	%.	25-150		1	11/12/24 13:57	11/13/24 20:23		S0
d3-MeFOSAA (S)	66	%.	25-150		1	11/12/24 13:57	11/13/24 20:23		
13C7-PFUdA (S)	80	%.	25-150		1	11/12/24 13:57	11/13/24 20:23		
13C8-PFOSA (S)	50	%.	25-150		1	11/12/24 13:57	11/13/24 20:23		
d5-EtFOSAA (S)	83	%.	25-150		1	11/12/24 13:57	11/13/24 20:23		
13C2-PFDoA (S)	72	%.	25-150		1	11/12/24 13:57	11/13/24 20:23		
d3-NMeFOSA (S)	7	%.	10-150		1	11/12/24 13:57	11/13/24 20:23		S0
d7-NMeFOSE (S)	17	%.	10-150		1	11/12/24 13:57	11/13/24 20:23		
13C2-PFTA (S)	50	%.	25-150		1	11/12/24 13:57	11/13/24 20:23		
d9-NEtFOSE (S)	16	%.	10-150		1	11/12/24 13:57	11/13/24 20:23		
d5-NEtFOSA (S)	5	%.	10-150		1	11/12/24 13:57	11/13/24 20:23		S0
13C2PFHxDA (S)	13	%.	25-150		1	11/12/24 13:57	11/13/24 20:23		S0
13C5-PFHxA (S)	56	%.	25-150		1	11/12/24 13:57	11/13/24 20:23		

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ANALYTICAL RESULTS

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

Sample: MW-3B **Lab ID: 40286024002** Collected: 10/16/24 00:00 Received: 10/18/24 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<2.1**	ng/L	9.5	2.1	1	11/12/24 13:57	11/13/24 20:44	763051-92-9	
4:2 FTS	**<1.8**	ng/L	9.5	1.8	1	11/12/24 13:57	11/13/24 20:44	757124-72-4	
6:2 FTS	**3.4J**	ng/L	9.6	2.9	1	11/12/24 13:57	11/13/24 20:44	27619-97-2	
8:2 FTS	**<4.0**	ng/L	9.8	4.0	1	11/12/24 13:57	11/13/24 20:44	39108-34-4	
9Cl-PF3ONS	**<1.8**	ng/L	9.4	1.8	1	11/12/24 13:57	11/13/24 20:44	756426-58-1	
ADONA	**<1.6**	ng/L	9.6	1.6	1	11/12/24 13:57	11/13/24 20:44	919005-14-4	
HFPO-DA	**<1.3**	ng/L	10.2	1.3	1	11/12/24 13:57	11/13/24 20:44	13252-13-6	
NEtFOSAA	**<2.9**	ng/L	10.2	2.9	1	11/12/24 13:57	11/13/24 20:44	2991-50-6	
NEtFOSA	**<2.3**	ng/L	10.2	2.3	1	11/12/24 13:57	11/13/24 20:44	4151-50-2	
NEtFOSE	**<3.0**	ng/L	10.2	3.0	1	11/12/24 13:57	11/13/24 20:44	1691-99-2	
NMeFOSAA	**<4.0**	ng/L	10.2	4.0	1	11/12/24 13:57	11/13/24 20:44	2355-31-9	
NMeFOSA	**<3.2**	ng/L	10.2	3.2	1	11/12/24 13:57	11/13/24 20:44	31506-32-8	
NMeFOSE	**<2.4**	ng/L	10.2	2.4	1	11/12/24 13:57	11/13/24 20:44	24448-09-7	
PFBS	**37.4**	ng/L	9.0	1.0	1	11/12/24 13:57	11/13/24 20:44	375-73-5	
PFDA	**<1.3**	ng/L	10.2	1.3	1	11/12/24 13:57	11/13/24 20:44	335-76-2	
PFHxA	**73.8**	ng/L	10.2	1.9	1	11/12/24 13:57	11/13/24 20:44	307-24-4	
PFBA	**141**	ng/L	10.2	1.4	1	11/12/24 13:57	11/13/24 20:44	375-22-4	
PFDS	**<2.9**	ng/L	9.8	2.9	1	11/12/24 13:57	11/13/24 20:44	335-77-3	
PFDoS	**<2.7**	ng/L	9.8	2.7	1	11/12/24 13:57	11/13/24 20:44	79780-39-5	
PFHpS	**4.9J**	ng/L	9.6	3.2	1	11/12/24 13:57	11/13/24 20:44	375-92-8	
PFNS	**<2.4**	ng/L	9.7	2.4	1	11/12/24 13:57	11/13/24 20:44	68259-12-1	
PFOSA	**<2.0**	ng/L	10.2	2.0	1	11/12/24 13:57	11/13/24 20:44	754-91-6	
PFPeA	**101**	ng/L	10.2	0.93	1	11/12/24 13:57	11/13/24 20:44	2706-90-3	
PFPeS	**22.8**	ng/L	9.5	1.3	1	11/12/24 13:57	11/13/24 20:44	2706-91-4	
PFDoA	**<2.2**	ng/L	10.2	2.2	1	11/12/24 13:57	11/13/24 20:44	307-55-1	
PFHpA	**58.0**	ng/L	10.2	1.2	1	11/12/24 13:57	11/13/24 20:44	375-85-9	
PFHxS	**125**	ng/L	9.2	1.2	1	11/12/24 13:57	11/13/24 20:44	355-46-4	
PFNA	**2.9J**	ng/L	10.2	1.1	1	11/12/24 13:57	11/13/24 20:44	375-95-1	
PFOS	**78.4**	ng/L	9.4	2.6	1	11/12/24 13:57	11/13/24 20:44	1763-23-1	
PFOA	**115**	ng/L	10.2	1.4	1	11/12/24 13:57	11/13/24 20:44	335-67-1	
PFTeDA	**<1.8**	ng/L	10.2	1.8	1	11/12/24 13:57	11/13/24 20:44	376-06-7	
PFTrDA	**<1.4**	ng/L	10.2	1.4	1	11/12/24 13:57	11/13/24 20:44	72629-94-8	
PFUnA	**<3.2**	ng/L	10.2	3.2	1	11/12/24 13:57	11/13/24 20:44	2058-94-8	
Surrogates									
13C4-PFBA (S)	45	%.	25-150		1	11/12/24 13:57	11/13/24 20:44		
13C5-PFPeA (S)	45	%.	25-150		1	11/12/24 13:57	11/13/24 20:44		
13C3-PFBS (S)	64	%.	25-150		1	11/12/24 13:57	11/13/24 20:44		
13C24:2FTS (S)	137	%.	25-150		1	11/12/24 13:57	11/13/24 20:44		
13C3HFPO-DA (S)	57	%.	25-150		1	11/12/24 13:57	11/13/24 20:44		
13C4-PFHpA (S)	81	%.	25-150		1	11/12/24 13:57	11/13/24 20:44		
13C3-PFHxS (S)	80	%.	25-150		1	11/12/24 13:57	11/13/24 20:44		
13C26:2FTS (S)	182	%.	25-150		1	11/12/24 13:57	11/13/24 20:44		S0
13C8-PFOA (S)	82	%.	25-150		1	11/12/24 13:57	11/13/24 20:44		
13C8-PFOS (S)	92	%.	25-150		1	11/12/24 13:57	11/13/24 20:44		
13C9-PFNA (S)	81	%.	25-150		1	11/12/24 13:57	11/13/24 20:44		

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

Sample: MW-3B **Lab ID: 40286024002** Collected: 10/16/24 00:00 Received: 10/18/24 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	94	%.	25-150		1	11/12/24 13:57	11/13/24 20:44		
13C28:2FTS (S)	145	%.	25-150		1	11/12/24 13:57	11/13/24 20:44		
d3-MeFOSAA (S)	85	%.	25-150		1	11/12/24 13:57	11/13/24 20:44		
13C7-PFUdA (S)	95	%.	25-150		1	11/12/24 13:57	11/13/24 20:44		
13C8-PFOSA (S)	77	%.	25-150		1	11/12/24 13:57	11/13/24 20:44		
d5-EtFOSAA (S)	88	%.	25-150		1	11/12/24 13:57	11/13/24 20:44		
13C2-PFDoA (S)	82	%.	25-150		1	11/12/24 13:57	11/13/24 20:44		
d3-NMeFOSA (S)	51	%.	10-150		1	11/12/24 13:57	11/13/24 20:44		
d7-NMeFOSE (S)	56	%.	10-150		1	11/12/24 13:57	11/13/24 20:44		
13C2-PFTA (S)	74	%.	25-150		1	11/12/24 13:57	11/13/24 20:44		
d9-NEtFOSE (S)	63	%.	10-150		1	11/12/24 13:57	11/13/24 20:44		
d5-NEtFOSA (S)	44	%.	10-150		1	11/12/24 13:57	11/13/24 20:44		
13C2PFHxDA (S)	53	%.	25-150		1	11/12/24 13:57	11/13/24 20:44		
13C5-PFHxA (S)	70	%.	25-150		1	11/12/24 13:57	11/13/24 20:44		

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ANALYTICAL RESULTS

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

Sample: MW-6 **Lab ID: 40286024003** Collected: 10/16/24 00:00 Received: 10/18/24 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<2.0**	ng/L	9.3	2.0	1	11/07/24 13:23	11/08/24 16:10	763051-92-9	
4:2 FTS	**<1.8**	ng/L	9.2	1.8	1	11/07/24 13:23	11/08/24 16:10	757124-72-4	
6:2 FTS	**<2.8**	ng/L	9.4	2.8	1	11/07/24 13:23	11/08/24 16:10	27619-97-2	
8:2 FTS	**<3.9**	ng/L	9.5	3.9	1	11/07/24 13:23	11/08/24 16:10	39108-34-4	
9Cl-PF3ONS	**<1.7**	ng/L	9.2	1.7	1	11/07/24 13:23	11/08/24 16:10	756426-58-1	
ADONA	**<1.6**	ng/L	9.3	1.6	1	11/07/24 13:23	11/08/24 16:10	919005-14-4	
HFPO-DA	**<1.2**	ng/L	9.9	1.2	1	11/07/24 13:23	11/08/24 16:10	13252-13-6	
NEtFOSAA	**6.6J**	ng/L	9.9	2.8	1	11/07/24 13:23	11/08/24 16:10	2991-50-6	
NEtFOSA	**<2.2**	ng/L	9.9	2.2	1	11/07/24 13:23	11/08/24 16:10	4151-50-2	
NEtFOSE	**<3.0**	ng/L	9.9	3.0	1	11/07/24 13:23	11/08/24 16:10	1691-99-2	
NMeFOSAA	**<3.9**	ng/L	9.9	3.9	1	11/07/24 13:23	11/08/24 16:10	2355-31-9	
NMeFOSA	**<3.1**	ng/L	9.9	3.1	1	11/07/24 13:23	11/08/24 16:10	31506-32-8	
NMeFOSE	**<2.4**	ng/L	9.9	2.4	1	11/07/24 13:23	11/08/24 16:10	24448-09-7	
PFBS	**28.3**	ng/L	8.7	1.0	1	11/07/24 13:23	11/08/24 16:10	375-73-5	
PFDA	**<1.2**	ng/L	9.9	1.2	1	11/07/24 13:23	11/08/24 16:10	335-76-2	
PFHxA	**68.0**	ng/L	9.9	1.9	1	11/07/24 13:23	11/08/24 16:10	307-24-4	
PFBA	**123**	ng/L	9.9	1.4	1	11/07/24 13:23	11/08/24 16:10	375-22-4	
PFDS	**<2.8**	ng/L	9.5	2.8	1	11/07/24 13:23	11/08/24 16:10	335-77-3	
PFDoS	**<2.6**	ng/L	9.6	2.6	1	11/07/24 13:23	11/08/24 16:10	79780-39-5	
PFHpS	**12.6**	ng/L	9.4	3.1	1	11/07/24 13:23	11/08/24 16:10	375-92-8	
PFNS	**<2.3**	ng/L	9.5	2.3	1	11/07/24 13:23	11/08/24 16:10	68259-12-1	
PFOSA	**<2.0**	ng/L	9.9	2.0	1	11/07/24 13:23	11/08/24 16:10	754-91-6	
PFPeA	**81.9**	ng/L	9.9	0.90	1	11/07/24 13:23	11/08/24 16:10	2706-90-3	
PFPeS	**28.1**	ng/L	9.3	1.3	1	11/07/24 13:23	11/08/24 16:10	2706-91-4	
PFDoA	**<2.1**	ng/L	9.9	2.1	1	11/07/24 13:23	11/08/24 16:10	307-55-1	
PFHpA	**57.6**	ng/L	9.9	1.2	1	11/07/24 13:23	11/08/24 16:10	375-85-9	
PFHxS	**109**	ng/L	9.0	1.2	1	11/07/24 13:23	11/08/24 16:10	355-46-4	
PFNA	**3.1J**	ng/L	9.9	1.0	1	11/07/24 13:23	11/08/24 16:10	375-95-1	
PFOS	**321**	ng/L	9.1	2.5	1	11/07/24 13:23	11/08/24 16:10	1763-23-1	
PFOA	**219**	ng/L	9.9	1.3	1	11/07/24 13:23	11/08/24 16:10	335-67-1	
PFTeDA	**<1.8**	ng/L	9.9	1.8	1	11/07/24 13:23	11/08/24 16:10	376-06-7	
PFTrDA	**<1.4**	ng/L	9.9	1.4	1	11/07/24 13:23	11/08/24 16:10	72629-94-8	
PFUnA	**<3.2**	ng/L	9.9	3.2	1	11/07/24 13:23	11/08/24 16:10	2058-94-8	
Surrogates									
13C4-PFBA (S)	29	%.	25-150		1	11/07/24 13:23	11/08/24 16:10		
13C5-PFPeA (S)	33	%.	25-150		1	11/07/24 13:23	11/08/24 16:10		
13C3-PFBS (S)	45	%.	25-150		1	11/07/24 13:23	11/08/24 16:10		
13C24:2FTS (S)	123	%.	25-150		1	11/07/24 13:23	11/08/24 16:10		
13C3HFPO-DA (S)	33	%.	25-150		1	11/07/24 13:23	11/08/24 16:10		
13C4-PFHpA (S)	60	%.	25-150		1	11/07/24 13:23	11/08/24 16:10		
13C3-PFHxS (S)	55	%.	25-150		1	11/07/24 13:23	11/08/24 16:10		
13C26:2FTS (S)	158	%.	25-150		1	11/07/24 13:23	11/08/24 16:10		S0
13C8-PFOA (S)	52	%.	25-150		1	11/07/24 13:23	11/08/24 16:10		
13C8-PFOS (S)	52	%.	25-150		1	11/07/24 13:23	11/08/24 16:10		
13C9-PFNA (S)	54	%.	25-150		1	11/07/24 13:23	11/08/24 16:10		

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ANALYTICAL RESULTS

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

Sample: MW-6 **Lab ID: 40286024003** Collected: 10/16/24 00:00 Received: 10/18/24 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	66	%.	25-150		1	11/07/24 13:23	11/08/24 16:10		
13C28:2FTS (S)	156	%.	25-150		1	11/07/24 13:23	11/08/24 16:10		S0
d3-MeFOSAA (S)	74	%.	25-150		1	11/07/24 13:23	11/08/24 16:10		
13C7-PFUdA (S)	68	%.	25-150		1	11/07/24 13:23	11/08/24 16:10		
13C8-PFOSA (S)	63	%.	25-150		1	11/07/24 13:23	11/08/24 16:10		
d5-EtFOSAA (S)	83	%.	25-150		1	11/07/24 13:23	11/08/24 16:10		
13C2-PFDoA (S)	63	%.	25-150		1	11/07/24 13:23	11/08/24 16:10		
d3-NMeFOSA (S)	43	%.	10-150		1	11/07/24 13:23	11/08/24 16:10		
d7-NMeFOSE (S)	42	%.	10-150		1	11/07/24 13:23	11/08/24 16:10		
13C2-PFTA (S)	56	%.	25-150		1	11/07/24 13:23	11/08/24 16:10		
d9-NEtFOSE (S)	41	%.	10-150		1	11/07/24 13:23	11/08/24 16:10		
d5-NEtFOSA (S)	42	%.	10-150		1	11/07/24 13:23	11/08/24 16:10		
13C2PFHxDA (S)	50	%.	25-150		1	11/07/24 13:23	11/08/24 16:10		
13C5-PFHxA (S)	52	%.	25-150		1	11/07/24 13:23	11/08/24 16:10		

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ANALYTICAL RESULTS

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

Sample: PZ-1 **Lab ID: 40286024004** Collected: 10/16/24 00:00 Received: 10/18/24 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.79**	ng/L	3.7	0.79	1	11/07/24 13:23	11/08/24 16:17	763051-92-9	
4:2 FTS	**<0.71**	ng/L	3.6	0.71	1	11/07/24 13:23	11/08/24 16:17	757124-72-4	
6:2 FTS	**<1.1**	ng/L	3.7	1.1	1	11/07/24 13:23	11/08/24 16:17	27619-97-2	
8:2 FTS	**<1.5**	ng/L	3.8	1.5	1	11/07/24 13:23	11/08/24 16:17	39108-34-4	
9Cl-PF3ONS	**<0.69**	ng/L	3.6	0.69	1	11/07/24 13:23	11/08/24 16:17	756426-58-1	
ADONA	**<0.62**	ng/L	3.7	0.62	1	11/07/24 13:23	11/08/24 16:17	919005-14-4	
HFPO-DA	**<0.49**	ng/L	3.9	0.49	1	11/07/24 13:23	11/08/24 16:17	13252-13-6	
NEtFOSAA	**5.6**	ng/L	3.9	1.1	1	11/07/24 13:23	11/08/24 16:17	2991-50-6	
NEtFOSA	**<0.89**	ng/L	3.9	0.89	1	11/07/24 13:23	11/08/24 16:17	4151-50-2	
NEtFOSE	**<1.2**	ng/L	3.9	1.2	1	11/07/24 13:23	11/08/24 16:17	1691-99-2	
NMeFOSAA	**<1.5**	ng/L	3.9	1.5	1	11/07/24 13:23	11/08/24 16:17	2355-31-9	
NMeFOSA	**<1.2**	ng/L	3.9	1.2	1	11/07/24 13:23	11/08/24 16:17	31506-32-8	
NMeFOSE	**<0.94**	ng/L	3.9	0.94	1	11/07/24 13:23	11/08/24 16:17	24448-09-7	
PFBS	**9.1**	ng/L	3.4	0.40	1	11/07/24 13:23	11/08/24 16:17	375-73-5	
PFDA	**<0.49**	ng/L	3.9	0.49	1	11/07/24 13:23	11/08/24 16:17	335-76-2	
PFHxA	**39.3**	ng/L	3.9	0.74	1	11/07/24 13:23	11/08/24 16:17	307-24-4	
PFBA	**<0.55**	ng/L	3.9	0.55	1	11/07/24 13:23	11/08/24 16:17	375-22-4	
PFDS	**<1.1**	ng/L	3.8	1.1	1	11/07/24 13:23	11/08/24 16:17	335-77-3	
PFDoS	**<1.0**	ng/L	3.8	1.0	1	11/07/24 13:23	11/08/24 16:17	79780-39-5	
PFHpS	**7.6**	ng/L	3.7	1.2	1	11/07/24 13:23	11/08/24 16:17	375-92-8	
PFNS	**<0.92**	ng/L	3.7	0.92	1	11/07/24 13:23	11/08/24 16:17	68259-12-1	
PFOSA	**<0.78**	ng/L	3.9	0.78	1	11/07/24 13:23	11/08/24 16:17	754-91-6	
PFPeA	**31.2**	ng/L	3.9	0.36	1	11/07/24 13:23	11/08/24 16:17	2706-90-3	
PFPeS	**8.2**	ng/L	3.7	0.50	1	11/07/24 13:23	11/08/24 16:17	2706-91-4	
PFDoA	**<0.84**	ng/L	3.9	0.84	1	11/07/24 13:23	11/08/24 16:17	307-55-1	
PFHpA	**33.4**	ng/L	3.9	0.46	1	11/07/24 13:23	11/08/24 16:17	375-85-9	
PFHxS	**37.8**	ng/L	3.5	0.46	1	11/07/24 13:23	11/08/24 16:17	355-46-4	
PFNA	**3.5J**	ng/L	3.9	0.41	1	11/07/24 13:23	11/08/24 16:17	375-95-1	
PFOS	**344**	ng/L	3.6	0.99	1	11/07/24 13:23	11/08/24 16:17	1763-23-1	
PFOA	**690**	ng/L	39.0	5.2	10	11/07/24 13:23	11/11/24 12:06	335-67-1	
PFTeDA	**<0.70**	ng/L	3.9	0.70	1	11/07/24 13:23	11/08/24 16:17	376-06-7	
PFTrDA	**<0.55**	ng/L	3.9	0.55	1	11/07/24 13:23	11/08/24 16:17	72629-94-8	
PFUnA	**<1.2**	ng/L	3.9	1.2	1	11/07/24 13:23	11/08/24 16:17	2058-94-8	
Surrogates									
13C4-PFBA (S)	33	%.	25-150		1	11/07/24 13:23	11/08/24 16:17		
13C5-PFPeA (S)	34	%.	25-150		1	11/07/24 13:23	11/08/24 16:17		
13C3-PFBS (S)	45	%.	25-150		1	11/07/24 13:23	11/08/24 16:17		
13C24:2FTS (S)	119	%.	25-150		1	11/07/24 13:23	11/08/24 16:17		
13C3HFPO-DA (S)	36	%.	25-150		1	11/07/24 13:23	11/08/24 16:17		
13C4-PFHpA (S)	57	%.	25-150		1	11/07/24 13:23	11/08/24 16:17		
13C3-PFHxS (S)	55	%.	25-150		1	11/07/24 13:23	11/08/24 16:17		
13C26:2FTS (S)	158	%.	25-150		1	11/07/24 13:23	11/08/24 16:17		S0
13C8-PFOA (S)	50	%.	25-150		1	11/07/24 13:23	11/08/24 16:17		
13C8-PFOS (S)	55	%.	25-150		1	11/07/24 13:23	11/08/24 16:17		
13C9-PFNA (S)	54	%.	25-150		1	11/07/24 13:23	11/08/24 16:17		

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ANALYTICAL RESULTS

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

Sample: PZ-1 **Lab ID: 40286024004** Collected: 10/16/24 00:00 Received: 10/18/24 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	67	%.	25-150		1	11/07/24 13:23	11/08/24 16:17		
13C28:2FTS (S)	178	%.	25-150		1	11/07/24 13:23	11/08/24 16:17		S0
d3-MeFOSAA (S)	74	%.	25-150		1	11/07/24 13:23	11/08/24 16:17		
13C7-PFUdA (S)	68	%.	25-150		1	11/07/24 13:23	11/08/24 16:17		
13C8-PFOSA (S)	59	%.	25-150		1	11/07/24 13:23	11/08/24 16:17		
d5-EtFOSAA (S)	79	%.	25-150		1	11/07/24 13:23	11/08/24 16:17		
13C2-PFDoA (S)	69	%.	25-150		1	11/07/24 13:23	11/08/24 16:17		
d3-NMeFOSA (S)	43	%.	10-150		1	11/07/24 13:23	11/08/24 16:17		
d7-NMeFOSE (S)	46	%.	10-150		1	11/07/24 13:23	11/08/24 16:17		
13C2-PFTA (S)	61	%.	25-150		1	11/07/24 13:23	11/08/24 16:17		
d9-NEtFOSE (S)	46	%.	10-150		1	11/07/24 13:23	11/08/24 16:17		
d5-NEtFOSA (S)	45	%.	10-150		1	11/07/24 13:23	11/08/24 16:17		
13C2PFHxDA (S)	53	%.	25-150		1	11/07/24 13:23	11/08/24 16:17		
13C5-PFHxA (S)	53	%.	25-150		1	11/07/24 13:23	11/08/24 16:17		

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

ANALYTICAL RESULTS

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

Sample: MW-5 DF **Lab ID: 40286024005** Collected: 10/16/24 00:00 Received: 10/18/24 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.40**	ng/L	1.9	0.40	1	11/07/24 13:23	11/11/24 11:59	763051-92-9	
4:2 FTS	**<0.36**	ng/L	1.8	0.36	1	11/07/24 13:23	11/11/24 11:59	757124-72-4	
6:2 FTS	**<0.56**	ng/L	1.9	0.56	1	11/07/24 13:23	11/11/24 11:59	27619-97-2	
8:2 FTS	**<0.78**	ng/L	1.9	0.78	1	11/07/24 13:23	11/11/24 11:59	39108-34-4	
9Cl-PF3ONS	**<0.35**	ng/L	1.8	0.35	1	11/07/24 13:23	11/11/24 11:59	756426-58-1	
ADONA	**<0.32**	ng/L	1.9	0.32	1	11/07/24 13:23	11/11/24 11:59	919005-14-4	
HFPO-DA	**<0.25**	ng/L	2.0	0.25	1	11/07/24 13:23	11/11/24 11:59	13252-13-6	
NEtFOSAA	**<0.56**	ng/L	2.0	0.56	1	11/07/24 13:23	11/11/24 11:59	2991-50-6	
NEtFOSA	**<0.45**	ng/L	2.0	0.45	1	11/07/24 13:23	11/11/24 11:59	4151-50-2	
NEtFOSE	**<0.59**	ng/L	2.0	0.59	1	11/07/24 13:23	11/11/24 11:59	1691-99-2	
NMeFOSAA	**<0.77**	ng/L	2.0	0.77	1	11/07/24 13:23	11/11/24 11:59	2355-31-9	
NMeFOSA	**<0.62**	ng/L	2.0	0.62	1	11/07/24 13:23	11/11/24 11:59	31506-32-8	
NMeFOSE	**<0.48**	ng/L	2.0	0.48	1	11/07/24 13:23	11/11/24 11:59	24448-09-7	
PFBS	**2.0**	ng/L	1.8	0.20	1	11/07/24 13:23	11/11/24 11:59	375-73-5	
PFDA	**<0.25**	ng/L	2.0	0.25	1	11/07/24 13:23	11/11/24 11:59	335-76-2	
PFHxA	**34.2**	ng/L	2.0	0.37	1	11/07/24 13:23	11/11/24 11:59	307-24-4	
PFBA	**18.6**	ng/L	2.0	0.28	1	11/07/24 13:23	11/11/24 11:59	375-22-4	
PFDS	**<0.56**	ng/L	1.9	0.56	1	11/07/24 13:23	11/11/24 11:59	335-77-3	
PFDoS	**<0.53**	ng/L	1.9	0.53	1	11/07/24 13:23	11/11/24 11:59	79780-39-5	
PFHpS	**<0.62**	ng/L	1.9	0.62	1	11/07/24 13:23	11/11/24 11:59	375-92-8	
PFNS	**<0.47**	ng/L	1.9	0.47	1	11/07/24 13:23	11/11/24 11:59	68259-12-1	
PFOSA	**<0.39**	ng/L	2.0	0.39	1	11/07/24 13:23	11/11/24 11:59	754-91-6	
PFPeA	**50.0**	ng/L	2.0	0.18	1	11/07/24 13:23	11/11/24 11:59	2706-90-3	
PFPeS	**0.37J**	ng/L	1.9	0.25	1	11/07/24 13:23	11/11/24 11:59	2706-91-4	
PFDoA	**<0.43**	ng/L	2.0	0.43	1	11/07/24 13:23	11/11/24 11:59	307-55-1	
PFHpA	**20.6**	ng/L	2.0	0.23	1	11/07/24 13:23	11/11/24 11:59	375-85-9	
PFHxS	**1.2J**	ng/L	1.8	0.23	1	11/07/24 13:23	11/11/24 11:59	355-46-4	
PFNA	**<0.21**	ng/L	2.0	0.21	1	11/07/24 13:23	11/11/24 11:59	375-95-1	
PFOS	**1.1J**	ng/L	1.8	0.50	1	11/07/24 13:23	11/11/24 11:59	1763-23-1	
PFOA	**17.8**	ng/L	2.0	0.26	1	11/07/24 13:23	11/11/24 11:59	335-67-1	
PFTeDA	**<0.36**	ng/L	2.0	0.36	1	11/07/24 13:23	11/11/24 11:59	376-06-7	
PFTrDA	**<0.28**	ng/L	2.0	0.28	1	11/07/24 13:23	11/11/24 11:59	72629-94-8	
PFUnA	**<0.63**	ng/L	2.0	0.63	1	11/07/24 13:23	11/11/24 11:59	2058-94-8	
Surrogates									
13C4-PFBA (S)	72	%.	25-150		1	11/07/24 13:23	11/11/24 11:59		
13C5-PFPeA (S)	59	%.	25-150		1	11/07/24 13:23	11/11/24 11:59		
13C3-PFBS (S)	70	%.	25-150		1	11/07/24 13:23	11/11/24 11:59		
13C24:2FTS (S)	95	%.	25-150		1	11/07/24 13:23	11/11/24 11:59		
13C3HFPO-DA (S)	77	%.	25-150		1	11/07/24 13:23	11/11/24 11:59		
13C4-PFHpA (S)	88	%.	25-150		1	11/07/24 13:23	11/11/24 11:59		
13C3-PFHxS (S)	90	%.	25-150		1	11/07/24 13:23	11/11/24 11:59		
13C26:2FTS (S)	130	%.	25-150		1	11/07/24 13:23	11/11/24 11:59		
13C8-PFOA (S)	86	%.	25-150		1	11/07/24 13:23	11/11/24 11:59		
13C8-PFOS (S)	92	%.	25-150		1	11/07/24 13:23	11/11/24 11:59		
13C9-PFNA (S)	87	%.	25-150		1	11/07/24 13:23	11/11/24 11:59		

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ANALYTICAL RESULTS

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

Sample: MW-5 DF **Lab ID: 40286024005** Collected: 10/16/24 00:00 Received: 10/18/24 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	98	%.	25-150		1	11/07/24 13:23	11/11/24 11:59		
13C28:2FTS (S)	175	%.	25-150		1	11/07/24 13:23	11/11/24 11:59		S0
d3-MeFOSAA (S)	88	%.	25-150		1	11/07/24 13:23	11/11/24 11:59		
13C7-PFUdA (S)	94	%.	25-150		1	11/07/24 13:23	11/11/24 11:59		
13C8-PFOSA (S)	70	%.	25-150		1	11/07/24 13:23	11/11/24 11:59		
d5-EtFOSAA (S)	97	%.	25-150		1	11/07/24 13:23	11/11/24 11:59		
13C2-PFDoA (S)	87	%.	25-150		1	11/07/24 13:23	11/11/24 11:59		
d3-NMeFOSA (S)	2	%.	10-150		1	11/07/24 13:23	11/11/24 11:59		S0
d7-NMeFOSE (S)	10	%.	10-150		1	11/07/24 13:23	11/11/24 11:59		
13C2-PFTA (S)	76	%.	25-150		1	11/07/24 13:23	11/11/24 11:59		
d9-NEtFOSE (S)	7	%.	10-150		1	11/07/24 13:23	11/11/24 11:59		S0
d5-NEtFOSA (S)	1	%.	10-150		1	11/07/24 13:23	11/11/24 11:59		S0
13C2PFHxDA (S)	42	%.	25-150		1	11/07/24 13:23	11/11/24 11:59		
13C5-PFHxA (S)	87	%.	25-150		1	11/07/24 13:23	11/11/24 11:59		

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ANALYTICAL RESULTS

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

Sample: MW-6 DF **Lab ID: 40286024006** Collected: 10/16/24 00:00 Received: 10/18/24 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<4.0**	ng/L	18.5	4.0	1	11/07/24 13:23	11/08/24 16:31	763051-92-9	
4:2 FTS	**<3.6**	ng/L	18.4	3.6	1	11/07/24 13:23	11/08/24 16:31	757124-72-4	
6:2 FTS	**<5.6**	ng/L	18.7	5.6	1	11/07/24 13:23	11/08/24 16:31	27619-97-2	
8:2 FTS	**<7.7**	ng/L	19.0	7.7	1	11/07/24 13:23	11/08/24 16:31	39108-34-4	
9Cl-PF3ONS	**<3.5**	ng/L	18.3	3.5	1	11/07/24 13:23	11/08/24 16:31	756426-58-1	
ADONA	**<3.1**	ng/L	18.6	3.1	1	11/07/24 13:23	11/08/24 16:31	919005-14-4	
HFPO-DA	**<2.5**	ng/L	19.6	2.5	1	11/07/24 13:23	11/08/24 16:31	13252-13-6	
NEtFOSAA	**<5.6**	ng/L	19.6	5.6	1	11/07/24 13:23	11/08/24 16:31	2991-50-6	
NEtFOSA	**<4.5**	ng/L	19.6	4.5	1	11/07/24 13:23	11/08/24 16:31	4151-50-2	
NEtFOSE	**<5.9**	ng/L	19.6	5.9	1	11/07/24 13:23	11/08/24 16:31	1691-99-2	
NMeFOSAA	**<7.7**	ng/L	19.6	7.7	1	11/07/24 13:23	11/08/24 16:31	2355-31-9	
NMeFOSA	**<6.1**	ng/L	19.6	6.1	1	11/07/24 13:23	11/08/24 16:31	31506-32-8	
NMeFOSE	**<4.7**	ng/L	19.6	4.7	1	11/07/24 13:23	11/08/24 16:31	24448-09-7	
PFBS	**6.4J**	ng/L	17.4	2.0	1	11/07/24 13:23	11/08/24 16:31	375-73-5	
PFDA	**<2.5**	ng/L	19.6	2.5	1	11/07/24 13:23	11/08/24 16:31	335-76-2	
PFHxA	**65.0**	ng/L	19.6	3.7	1	11/07/24 13:23	11/08/24 16:31	307-24-4	
PFBA	**105**	ng/L	19.6	2.8	1	11/07/24 13:23	11/08/24 16:31	375-22-4	
PFDS	**<5.6**	ng/L	19.0	5.6	1	11/07/24 13:23	11/08/24 16:31	335-77-3	
PFDoS	**<5.2**	ng/L	19.1	5.2	1	11/07/24 13:23	11/08/24 16:31	79780-39-5	
PFHpS	**<6.2**	ng/L	18.7	6.2	1	11/07/24 13:23	11/08/24 16:31	375-92-8	
PFNS	**<4.7**	ng/L	18.9	4.7	1	11/07/24 13:23	11/08/24 16:31	68259-12-1	
PFOSA	**<3.9**	ng/L	19.6	3.9	1	11/07/24 13:23	11/08/24 16:31	754-91-6	
PFPeA	**121**	ng/L	19.6	1.8	1	11/07/24 13:23	11/08/24 16:31	2706-90-3	
PFPeS	**<2.5**	ng/L	18.5	2.5	1	11/07/24 13:23	11/08/24 16:31	2706-91-4	
PFDoA	**<4.2**	ng/L	19.6	4.2	1	11/07/24 13:23	11/08/24 16:31	307-55-1	
PFHpA	**41.1**	ng/L	19.6	2.3	1	11/07/24 13:23	11/08/24 16:31	375-85-9	
PFHxS	**5.2J**	ng/L	17.9	2.3	1	11/07/24 13:23	11/08/24 16:31	355-46-4	
PFNA	**<2.1**	ng/L	19.6	2.1	1	11/07/24 13:23	11/08/24 16:31	375-95-1	
PFOS	**15.1J**	ng/L	18.2	5.0	1	11/07/24 13:23	11/08/24 16:31	1763-23-1	
PFOA	**62.4**	ng/L	19.6	2.6	1	11/07/24 13:23	11/08/24 16:31	335-67-1	
PFTeDA	**<3.5**	ng/L	19.6	3.5	1	11/07/24 13:23	11/08/24 16:31	376-06-7	
PFTrDA	**<2.8**	ng/L	19.6	2.8	1	11/07/24 13:23	11/08/24 16:31	72629-94-8	
PFUnA	**<6.3**	ng/L	19.6	6.3	1	11/07/24 13:23	11/08/24 16:31	2058-94-8	
Surrogates									
13C4-PFBA (S)	80	%.	25-150		1	11/07/24 13:23	11/08/24 16:31		
13C5-PFPeA (S)	63	%.	25-150		1	11/07/24 13:23	11/08/24 16:31		
13C3-PFBS (S)	76	%.	25-150		1	11/07/24 13:23	11/08/24 16:31		
13C24:2FTS (S)	56	%.	25-150		1	11/07/24 13:23	11/08/24 16:31		
13C3HFPO-DA (S)	72	%.	25-150		1	11/07/24 13:23	11/08/24 16:31		
13C4-PFHpA (S)	84	%.	25-150		1	11/07/24 13:23	11/08/24 16:31		
13C3-PFHxS (S)	86	%.	25-150		1	11/07/24 13:23	11/08/24 16:31		
13C26:2FTS (S)	72	%.	25-150		1	11/07/24 13:23	11/08/24 16:31		
13C8-PFOA (S)	83	%.	25-150		1	11/07/24 13:23	11/08/24 16:31		
13C8-PFOS (S)	89	%.	25-150		1	11/07/24 13:23	11/08/24 16:31		
13C9-PFNA (S)	86	%.	25-150		1	11/07/24 13:23	11/08/24 16:31		

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ANALYTICAL RESULTS

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

Sample: MW-6 DF **Lab ID: 40286024006** Collected: 10/16/24 00:00 Received: 10/18/24 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	93	%.	25-150		1	11/07/24 13:23	11/08/24 16:31		
13C28:2FTS (S)	106	%.	25-150		1	11/07/24 13:23	11/08/24 16:31		
d3-MeFOSAA (S)	79	%.	25-150		1	11/07/24 13:23	11/08/24 16:31		
13C7-PFUdA (S)	91	%.	25-150		1	11/07/24 13:23	11/08/24 16:31		
13C8-PFOSA (S)	79	%.	25-150		1	11/07/24 13:23	11/08/24 16:31		
d5-EtFOSAA (S)	78	%.	25-150		1	11/07/24 13:23	11/08/24 16:31		
13C2-PFDoA (S)	82	%.	25-150		1	11/07/24 13:23	11/08/24 16:31		
d3-NMeFOSA (S)	58	%.	10-150		1	11/07/24 13:23	11/08/24 16:31		
d7-NMeFOSE (S)	69	%.	10-150		1	11/07/24 13:23	11/08/24 16:31		
13C2-PFTA (S)	77	%.	25-150		1	11/07/24 13:23	11/08/24 16:31		
d9-NEtFOSE (S)	70	%.	10-150		1	11/07/24 13:23	11/08/24 16:31		
d5-NEtFOSA (S)	55	%.	10-150		1	11/07/24 13:23	11/08/24 16:31		
13C2PFHxDA (S)	57	%.	25-150		1	11/07/24 13:23	11/08/24 16:31		
13C5-PFHxA (S)	87	%.	25-150		1	11/07/24 13:23	11/08/24 16:31		

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ANALYTICAL RESULTS

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

Sample: MPZ-3 **Lab ID: 40286024007** Collected: 10/16/24 00:00 Received: 10/18/24 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.42**	ng/L	1.9	0.42	1	11/07/24 13:23	11/08/24 16:39	763051-92-9	
4:2 FTS	**<0.37**	ng/L	1.9	0.37	1	11/07/24 13:23	11/08/24 16:39	757124-72-4	
6:2 FTS	**1.3J**	ng/L	2.0	0.59	1	11/07/24 13:23	11/08/24 16:39	27619-97-2	
8:2 FTS	**<0.81**	ng/L	2.0	0.81	1	11/07/24 13:23	11/08/24 16:39	39108-34-4	
9Cl-PF3ONS	**<0.36**	ng/L	1.9	0.36	1	11/07/24 13:23	11/08/24 16:39	756426-58-1	
ADONA	**<0.33**	ng/L	2.0	0.33	1	11/07/24 13:23	11/08/24 16:39	919005-14-4	
HFPO-DA	**<0.26**	ng/L	2.1	0.26	1	11/07/24 13:23	11/08/24 16:39	13252-13-6	
NEtFOSAA	**<0.59**	ng/L	2.1	0.59	1	11/07/24 13:23	11/08/24 16:39	2991-50-6	
NEtFOSA	**<0.47**	ng/L	2.1	0.47	1	11/07/24 13:23	11/08/24 16:39	4151-50-2	
NEtFOSE	**<0.62**	ng/L	2.1	0.62	1	11/07/24 13:23	11/08/24 16:39	1691-99-2	
NMeFOSAA	**2.5**	ng/L	2.1	0.81	1	11/07/24 13:23	11/08/24 16:39	2355-31-9	
NMeFOSA	**<0.65**	ng/L	2.1	0.65	1	11/07/24 13:23	11/08/24 16:39	31506-32-8	
NMeFOSE	**<0.50**	ng/L	2.1	0.50	1	11/07/24 13:23	11/08/24 16:39	24448-09-7	
PFBS	**1.7J**	ng/L	1.8	0.21	1	11/07/24 13:23	11/08/24 16:39	375-73-5	
PFDA	**0.73J**	ng/L	2.1	0.26	1	11/07/24 13:23	11/08/24 16:39	335-76-2	
PFHxA	**5.5**	ng/L	2.1	0.39	1	11/07/24 13:23	11/08/24 16:39	307-24-4	
PFBA	**8.3**	ng/L	2.1	0.29	1	11/07/24 13:23	11/08/24 16:39	375-22-4	
PFDS	**<0.59**	ng/L	2.0	0.59	1	11/07/24 13:23	11/08/24 16:39	335-77-3	
PFDoS	**<0.55**	ng/L	2.0	0.55	1	11/07/24 13:23	11/08/24 16:39	79780-39-5	
PFHpS	**<0.65**	ng/L	2.0	0.65	1	11/07/24 13:23	11/08/24 16:39	375-92-8	
PFNS	**<0.49**	ng/L	2.0	0.49	1	11/07/24 13:23	11/08/24 16:39	68259-12-1	
PFOSA	**<0.41**	ng/L	2.1	0.41	1	11/07/24 13:23	11/08/24 16:39	754-91-6	
PFPeA	**<0.19**	ng/L	2.1	0.19	1	11/07/24 13:23	11/08/24 16:39	2706-90-3	
PFPeS	**0.32J**	ng/L	1.9	0.26	1	11/07/24 13:23	11/08/24 16:39	2706-91-4	
PFDoA	**<0.45**	ng/L	2.1	0.45	1	11/07/24 13:23	11/08/24 16:39	307-55-1	
PFHpA	**1.4J**	ng/L	2.1	0.24	1	11/07/24 13:23	11/08/24 16:39	375-85-9	
PFHxS	**1.7J**	ng/L	1.9	0.24	1	11/07/24 13:23	11/08/24 16:39	355-46-4	
PFNA	**0.32J**	ng/L	2.1	0.22	1	11/07/24 13:23	11/08/24 16:39	375-95-1	
PFOS	**5.4**	ng/L	1.9	0.53	1	11/07/24 13:23	11/08/24 16:39	1763-23-1	
PFOA	**5.1**	ng/L	2.1	0.28	1	11/07/24 13:23	11/08/24 16:39	335-67-1	
PFTeDA	**<0.37**	ng/L	2.1	0.37	1	11/07/24 13:23	11/08/24 16:39	376-06-7	
PFTrDA	**<0.29**	ng/L	2.1	0.29	1	11/07/24 13:23	11/08/24 16:39	72629-94-8	
PFUnA	**<0.66**	ng/L	2.1	0.66	1	11/07/24 13:23	11/08/24 16:39	2058-94-8	
Surrogates									
13C4-PFBA (S)	47	%.	25-150		1	11/07/24 13:23	11/08/24 16:39		
13C5-PFPeA (S)	62	%.	25-150		1	11/07/24 13:23	11/08/24 16:39		
13C3-PFBS (S)	75	%.	25-150		1	11/07/24 13:23	11/08/24 16:39		
13C24:2FTS (S)	103	%.	25-150		1	11/07/24 13:23	11/08/24 16:39		
13C3HFPO-DA (S)	62	%.	25-150		1	11/07/24 13:23	11/08/24 16:39		
13C4-PFHpA (S)	90	%.	25-150		1	11/07/24 13:23	11/08/24 16:39		
13C3-PFHxS (S)	85	%.	25-150		1	11/07/24 13:23	11/08/24 16:39		
13C26:2FTS (S)	197	%.	25-150		1	11/07/24 13:23	11/08/24 16:39		S0
13C8-PFOA (S)	85	%.	25-150		1	11/07/24 13:23	11/08/24 16:39		
13C8-PFOS (S)	88	%.	25-150		1	11/07/24 13:23	11/08/24 16:39		
13C9-PFNA (S)	86	%.	25-150		1	11/07/24 13:23	11/08/24 16:39		

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(920)469-2436

ANALYTICAL RESULTS

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

Sample: MPZ-3 **Lab ID: 40286024007** Collected: 10/16/24 00:00 Received: 10/18/24 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	90	%.	25-150		1	11/07/24 13:23	11/08/24 16:39		
13C28:2FTS (S)	173	%.	25-150		1	11/07/24 13:23	11/08/24 16:39		S0
d3-MeFOSAA (S)	70	%.	25-150		1	11/07/24 13:23	11/08/24 16:39		
13C7-PFUdA (S)	89	%.	25-150		1	11/07/24 13:23	11/08/24 16:39		
13C8-PFOSA (S)	29	%.	25-150		1	11/07/24 13:23	11/08/24 16:39		
d5-EtFOSAA (S)	94	%.	25-150		1	11/07/24 13:23	11/08/24 16:39		
13C2-PFDoA (S)	81	%.	25-150		1	11/07/24 13:23	11/08/24 16:39		
d3-NMeFOSA (S)	6	%.	10-150		1	11/07/24 13:23	11/08/24 16:39		S0
d7-NMeFOSE (S)	22	%.	10-150		1	11/07/24 13:23	11/08/24 16:39		
13C2-PFTA (S)	70	%.	25-150		1	11/07/24 13:23	11/08/24 16:39		
d9-NEtFOSE (S)	23	%.	10-150		1	11/07/24 13:23	11/08/24 16:39		
d5-NEtFOSA (S)	6	%.	10-150		1	11/07/24 13:23	11/08/24 16:39		S0
13C2PFHxDA (S)	31	%.	25-150		1	11/07/24 13:23	11/08/24 16:39		
13C5-PFHxA (S)	88	%.	25-150		1	11/07/24 13:23	11/08/24 16:39		

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ANALYTICAL RESULTS

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

Sample: FIELD BLANK **Lab ID: 40286024008** Collected: 10/16/24 00:00 Received: 10/18/24 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178								
	Pace Analytical Services - Minneapolis								
11Cl-PF3OUdS	**<0.40**	ng/L	1.9	0.40	1	11/07/24 13:23	11/08/24 16:46	763051-92-9	
4:2 FTS	**<0.36**	ng/L	1.9	0.36	1	11/07/24 13:23	11/08/24 16:46	757124-72-4	
6:2 FTS	**<0.57**	ng/L	1.9	0.57	1	11/07/24 13:23	11/08/24 16:46	27619-97-2	
8:2 FTS	**<0.79**	ng/L	1.9	0.79	1	11/07/24 13:23	11/08/24 16:46	39108-34-4	
9Cl-PF3ONS	**<0.35**	ng/L	1.9	0.35	1	11/07/24 13:23	11/08/24 16:46	756426-58-1	
ADONA	**<0.32**	ng/L	1.9	0.32	1	11/07/24 13:23	11/08/24 16:46	919005-14-4	
HFPO-DA	**<0.25**	ng/L	2.0	0.25	1	11/07/24 13:23	11/08/24 16:46	13252-13-6	
NEtFOSAA	**<0.57**	ng/L	2.0	0.57	1	11/07/24 13:23	11/08/24 16:46	2991-50-6	
NEtFOSA	**<0.45**	ng/L	2.0	0.45	1	11/07/24 13:23	11/08/24 16:46	4151-50-2	
NEtFOSE	**<0.60**	ng/L	2.0	0.60	1	11/07/24 13:23	11/08/24 16:46	1691-99-2	
NMeFOSAA	**<0.78**	ng/L	2.0	0.78	1	11/07/24 13:23	11/08/24 16:46	2355-31-9	
NMeFOSA	**<0.62**	ng/L	2.0	0.62	1	11/07/24 13:23	11/08/24 16:46	31506-32-8	
NMeFOSE	**<0.48**	ng/L	2.0	0.48	1	11/07/24 13:23	11/08/24 16:46	24448-09-7	
PFBS	**<0.20**	ng/L	1.8	0.20	1	11/07/24 13:23	11/08/24 16:46	375-73-5	
PFDA	**<0.25**	ng/L	2.0	0.25	1	11/07/24 13:23	11/08/24 16:46	335-76-2	
PFHxA	**<0.38**	ng/L	2.0	0.38	1	11/07/24 13:23	11/08/24 16:46	307-24-4	
PFBA	**<0.28**	ng/L	2.0	0.28	1	11/07/24 13:23	11/08/24 16:46	375-22-4	
PFDS	**<0.57**	ng/L	1.9	0.57	1	11/07/24 13:23	11/08/24 16:46	335-77-3	
PFDoS	**<0.53**	ng/L	1.9	0.53	1	11/07/24 13:23	11/08/24 16:46	79780-39-5	
PFHpS	**<0.63**	ng/L	1.9	0.63	1	11/07/24 13:23	11/08/24 16:46	375-92-8	
PFNS	**<0.47**	ng/L	1.9	0.47	1	11/07/24 13:23	11/08/24 16:46	68259-12-1	
PFOSA	**<0.40**	ng/L	2.0	0.40	1	11/07/24 13:23	11/08/24 16:46	754-91-6	
PFPeA	**<0.18**	ng/L	2.0	0.18	1	11/07/24 13:23	11/08/24 16:46	2706-90-3	
PFPeS	**<0.25**	ng/L	1.9	0.25	1	11/07/24 13:23	11/08/24 16:46	2706-91-4	
PFDoA	**<0.43**	ng/L	2.0	0.43	1	11/07/24 13:23	11/08/24 16:46	307-55-1	
PFHpA	**<0.23**	ng/L	2.0	0.23	1	11/07/24 13:23	11/08/24 16:46	375-85-9	
PFHxS	**<0.23**	ng/L	1.8	0.23	1	11/07/24 13:23	11/08/24 16:46	355-46-4	
PFNA	**<0.21**	ng/L	2.0	0.21	1	11/07/24 13:23	11/08/24 16:46	375-95-1	
PFOS	**<0.51**	ng/L	1.8	0.51	1	11/07/24 13:23	11/08/24 16:46	1763-23-1	
PFOA	**<0.27**	ng/L	2.0	0.27	1	11/07/24 13:23	11/08/24 16:46	335-67-1	
PFTeDA	**<0.36**	ng/L	2.0	0.36	1	11/07/24 13:23	11/08/24 16:46	376-06-7	
PFTrDA	**<0.28**	ng/L	2.0	0.28	1	11/07/24 13:23	11/08/24 16:46	72629-94-8	
PFUnA	**<0.64**	ng/L	2.0	0.64	1	11/07/24 13:23	11/08/24 16:46	2058-94-8	
Surrogates									
13C4-PFBA (S)	82	%.	25-150		1	11/07/24 13:23	11/08/24 16:46		
13C5-PFPeA (S)	77	%.	25-150		1	11/07/24 13:23	11/08/24 16:46		
13C3-PFBS (S)	85	%.	25-150		1	11/07/24 13:23	11/08/24 16:46		
13C24:2FTS (S)	66	%.	25-150		1	11/07/24 13:23	11/08/24 16:46		
13C3HFPO-DA (S)	70	%.	25-150		1	11/07/24 13:23	11/08/24 16:46		
13C4-PFHpA (S)	87	%.	25-150		1	11/07/24 13:23	11/08/24 16:46		
13C3-PFHxS (S)	81	%.	25-150		1	11/07/24 13:23	11/08/24 16:46		
13C26:2FTS (S)	63	%.	25-150		1	11/07/24 13:23	11/08/24 16:46		
13C8-PFOA (S)	80	%.	25-150		1	11/07/24 13:23	11/08/24 16:46		
13C8-PFOS (S)	67	%.	25-150		1	11/07/24 13:23	11/08/24 16:46		
13C9-PFNA (S)	77	%.	25-150		1	11/07/24 13:23	11/08/24 16:46		

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ANALYTICAL RESULTS

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

Sample: FIELD BLANK **Lab ID: 40286024008** Collected: 10/16/24 00:00 Received: 10/18/24 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WI ID NPW	Analytical Method: ENV-SOP-MIN4-0178 Preparation Method: ENV-SOP-MIN4-0178 Pace Analytical Services - Minneapolis								
Surrogates									
13C6-PFDA (S)	78	%.	25-150		1	11/07/24 13:23	11/08/24 16:46		
13C28:2FTS (S)	156	%.	25-150		1	11/07/24 13:23	11/08/24 16:46		S3
d3-MeFOSAA (S)	81	%.	25-150		1	11/07/24 13:23	11/08/24 16:46		
13C7-PFUdA (S)	73	%.	25-150		1	11/07/24 13:23	11/08/24 16:46		
13C8-PFOSA (S)	70	%.	25-150		1	11/07/24 13:23	11/08/24 16:46		
d5-EtFOSAA (S)	84	%.	25-150		1	11/07/24 13:23	11/08/24 16:46		
13C2-PFDoA (S)	74	%.	25-150		1	11/07/24 13:23	11/08/24 16:46		
d3-NMeFOSA (S)	46	%.	10-150		1	11/07/24 13:23	11/08/24 16:46		
d7-NMeFOSE (S)	55	%.	10-150		1	11/07/24 13:23	11/08/24 16:46		
13C2-PFTA (S)	68	%.	25-150		1	11/07/24 13:23	11/08/24 16:46		
d9-NEtFOSE (S)	54	%.	10-150		1	11/07/24 13:23	11/08/24 16:46		
d5-NEtFOSA (S)	45	%.	10-150		1	11/07/24 13:23	11/08/24 16:46		
13C2PFHxDA (S)	56	%.	25-150		1	11/07/24 13:23	11/08/24 16:46		
13C5-PFHxA (S)	89	%.	25-150		1	11/07/24 13:23	11/08/24 16:46		

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QUALITY CONTROL DATA

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

QC Batch: 977968
QC Batch Method: ENV-SOP-MIN4-0178
Analysis Method: ENV-SOP-MIN4-0178
Analysis Description: WI ID NPW
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 40286024003, 40286024004, 40286024005, 40286024006, 40286024007, 40286024008

METHOD BLANK: 5110990 Matrix: Water
Associated Lab Samples: 40286024003, 40286024004, 40286024005, 40286024006, 40286024007, 40286024008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ng/L	<0.40	1.8	11/08/24 15:48	
4:2 FTS	ng/L	<0.36	1.8	11/08/24 15:48	
6:2 FTS	ng/L	<0.56	1.9	11/08/24 15:48	
8:2 FTS	ng/L	<0.77	1.9	11/08/24 15:48	
9Cl-PF3ONS	ng/L	<0.35	1.8	11/08/24 15:48	
ADONA	ng/L	<0.31	1.8	11/08/24 15:48	
HFPO-DA	ng/L	<0.25	2.0	11/08/24 15:48	
NEtFOSA	ng/L	<0.45	2.0	11/08/24 15:48	
NEtFOSAA	ng/L	<0.56	2.0	11/08/24 15:48	
NEtFOSE	ng/L	<0.59	2.0	11/08/24 15:48	
NMeFOSA	ng/L	<0.61	2.0	11/08/24 15:48	
NMeFOSAA	ng/L	<0.76	2.0	11/08/24 15:48	
NMeFOSE	ng/L	<0.47	2.0	11/08/24 15:48	
PFBA	ng/L	<0.27	2.0	11/08/24 15:48	
PFBS	ng/L	<0.20	1.7	11/08/24 15:48	
PFDA	ng/L	<0.24	2.0	11/08/24 15:48	
PFDoA	ng/L	<0.42	2.0	11/08/24 15:48	
PFDoS	ng/L	<0.52	1.9	11/08/24 15:48	
PFDS	ng/L	<0.56	1.9	11/08/24 15:48	
PFHpA	ng/L	<0.23	2.0	11/08/24 15:48	
PFHpS	ng/L	<0.62	1.9	11/08/24 15:48	
PFHxA	ng/L	<0.37	2.0	11/08/24 15:48	
PFHxS	ng/L	<0.23	1.8	11/08/24 15:48	
PFNA	ng/L	<0.20	2.0	11/08/24 15:48	
PFNS	ng/L	<0.46	1.9	11/08/24 15:48	
PFOA	ng/L	<0.26	2.0	11/08/24 15:48	
PFOS	ng/L	<0.50	1.8	11/08/24 15:48	
PFOSA	ng/L	<0.39	2.0	11/08/24 15:48	
PFPeA	ng/L	<0.18	2.0	11/08/24 15:48	
PFPeS	ng/L	<0.25	1.8	11/08/24 15:48	
PFTeDA	ng/L	<0.35	2.0	11/08/24 15:48	
PFTrDA	ng/L	<0.28	2.0	11/08/24 15:48	
PFUnA	ng/L	<0.63	2.0	11/08/24 15:48	
13C2-PFDoA (S)	%.	71	25-150	11/08/24 15:48	
13C2-PFTA (S)	%.	67	25-150	11/08/24 15:48	
13C24:2FTS (S)	%.	79	25-150	11/08/24 15:48	
13C26:2FTS (S)	%.	67	25-150	11/08/24 15:48	
13C28:2FTS (S)	%.	107	25-150	11/08/24 15:48	
13C2PFHxDA (S)	%.	54	25-150	11/08/24 15:48	
13C3-PFBS (S)	%.	82	25-150	11/08/24 15:48	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

METHOD BLANK: 5110990 Matrix: Water
Associated Lab Samples: 40286024003, 40286024004, 40286024005, 40286024006, 40286024007, 40286024008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C3-PFHxS (S)	%.	80	25-150	11/08/24 15:48	
13C3HFPO-DA (S)	%.	72	25-150	11/08/24 15:48	
13C4-PFBA (S)	%.	79	25-150	11/08/24 15:48	
13C4-PFHpA (S)	%.	80	25-150	11/08/24 15:48	
13C5-PFHxA (S)	%.	84	25-150	11/08/24 15:48	
13C5-PFPeA (S)	%.	76	25-150	11/08/24 15:48	
13C6-PFDA (S)	%.	77	25-150	11/08/24 15:48	
13C7-PFUdA (S)	%.	76	25-150	11/08/24 15:48	
13C8-PFOA (S)	%.	73	25-150	11/08/24 15:48	
13C8-PFOS (S)	%.	68	25-150	11/08/24 15:48	
13C8-PFOSA (S)	%.	68	25-150	11/08/24 15:48	
13C9-PFNA (S)	%.	70	25-150	11/08/24 15:48	
d3-MeFOSAA (S)	%.	74	25-150	11/08/24 15:48	
d3-NMeFOSA (S)	%.	50	20-150	11/08/24 15:48	
d5-EtFOSAA (S)	%.	82	25-150	11/08/24 15:48	
d5-NEtFOSA (S)	%.	52	20-150	11/08/24 15:48	
d7-NMeFOSE (S)	%.	62	20-150	11/08/24 15:48	
d9-NEtFOSE (S)	%.	59	20-150	11/08/24 15:48	

LABORATORY CONTROL SAMPLE & LCSD: 5110991 5110992

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
11Cl-PF3OUdS	ng/L	3.8	4.0	3.5	105	91	50-150	15	30	
4:2 FTS	ng/L	3.8	3.6	3.3	96	87	50-150	10	30	
6:2 FTS	ng/L	3.8	3.5	3.2	92	83	50-150	12	30	
8:2 FTS	ng/L	3.9	3.5	3.3	91	87	50-150	5	30	
9Cl-PF3ONS	ng/L	3.8	3.9	3.6	104	96	50-150	9	30	
ADONA	ng/L	3.8	3.6	3.5	94	92	50-150	4	30	
HFPO-DA	ng/L	4	4.0	3.8	99	95	50-150	5	30	
NEtFOSA	ng/L	4	4.6	3.9	114	97	50-150	17	30	
NEtFOSAA	ng/L	4	3.7	3.2	91	79	50-150	15	30	
NEtFOSE	ng/L	4	4.5	4.3	111	107	50-150	5	30	
NMeFOSA	ng/L	4	3.5	3.4	86	84	50-150	2	30	
NMeFOSAA	ng/L	4	3.6	3.3	88	82	50-150	8	30	
NMeFOSE	ng/L	4	4.9	4.6	121	114	50-150	7	30	
PFBA	ng/L	4	3.7	3.4	91	86	50-150	7	30	
PFBS	ng/L	3.6	3.5	3.2	98	89	50-150	10	30	
PFDA	ng/L	4	4.0	3.8	99	94	50-150	6	30	
PFDoA	ng/L	4	3.8	3.5	94	88	50-150	8	30	
PFDoS	ng/L	3.9	3.8	3.7	96	95	50-150	1	30	
PFDS	ng/L	3.9	3.7	4.1	96	106	50-150	9	30	
PFHpA	ng/L	4	3.7	3.5	91	87	50-150	5	30	
PFHpS	ng/L	3.9	4.1	4.4	106	114	50-150	6	30	
PFHxA	ng/L	4	3.7	3.3	92	82	50-150	12	30	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

LABORATORY CONTROL SAMPLE & LCSD: 5110991 5110992

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PFHxS	ng/L	3.7	3.6	3.3	98	90	50-150	9	30	
PFNA	ng/L	4	3.8	3.3	94	81	50-150	16	30	
PFNS	ng/L	3.9	3.0	3.2	78	84	50-150	7	30	
PFOA	ng/L	4	4.1	3.9	101	98	50-150	4	30	
PFOS	ng/L	3.8	3.6	3.9	95	105	50-150	9	30	
PFOSA	ng/L	4	3.8	3.3	95	82	50-150	16	30	
PFPeA	ng/L	4	3.9	3.6	95	89	50-150	8	30	
PFPeS	ng/L	3.8	3.9	3.8	103	100	50-150	4	30	
PFTeDA	ng/L	4	3.7	3.8	92	94	50-150	1	30	
PFTrDA	ng/L	4	4.0	3.6	99	90	50-150	11	30	
PFUnA	ng/L	4	4.0	3.7	98	93	50-150	6	30	
13C2-PFDoA (S)	%.				74	77	25-150			
13C2-PFTA (S)	%.				72	74	25-150			
13C24:2FTS (S)	%.				80	84	25-150			
13C26:2FTS (S)	%.				66	81	25-150			
13C28:2FTS (S)	%.				91	97	25-150			
13C2PFHxDA (S)	%.				56	53	25-150			
13C3-PFBS (S)	%.				83	88	25-150			
13C3-PFHxS (S)	%.				79	80	25-150			
13C3HFPO-DA (S)	%.				71	77	25-150			
13C4-PFBA (S)	%.				83	88	25-150			
13C4-PFHpA (S)	%.				82	87	25-150			
13C5-PFHxA (S)	%.				87	91	25-150			
13C5-PFPeA (S)	%.				79	84	25-150			
13C6-PFDA (S)	%.				75	80	25-150			
13C7-PFUdA (S)	%.				75	81	25-150			
13C8-PFOA (S)	%.				77	81	25-150			
13C8-PFOS (S)	%.				69	71	25-150			
13C8-PFOSA (S)	%.				73	83	25-150			
13C9-PFNA (S)	%.				75	82	25-150			
d3-MeFOSAA (S)	%.				76	87	25-150			
d3-NMeFOSA (S)	%.				55	56	20-150			
d5-EtFOSAA (S)	%.				84	87	25-150			
d5-NEtFOSA (S)	%.				47	50	20-150			
d7-NMeFOSE (S)	%.				59	65	20-150			
d9-NEtFOSE (S)	%.				57	62	20-150			

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(920)469-2436

QUALITY CONTROL DATA

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

QC Batch: 978971
QC Batch Method: ENV-SOP-MIN4-0178
Analysis Method: ENV-SOP-MIN4-0178
Analysis Description: WI ID NPW
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 40286024001, 40286024002

METHOD BLANK: 5115736 Matrix: Water
Associated Lab Samples: 40286024001, 40286024002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11Cl-PF3OUdS	ng/L	<0.41	1.9	11/13/24 18:56	
4:2 FTS	ng/L	<0.37	1.9	11/13/24 18:56	
6:2 FTS	ng/L	<0.58	1.9	11/13/24 18:56	
8:2 FTS	ng/L	<0.80	2.0	11/13/24 18:56	
9Cl-PF3ONS	ng/L	<0.36	1.9	11/13/24 18:56	
ADONA	ng/L	<0.32	1.9	11/13/24 18:56	
HFPO-DA	ng/L	<0.26	2.0	11/13/24 18:56	
NEtFOSA	ng/L	<0.46	2.0	11/13/24 18:56	
NEtFOSAA	ng/L	<0.58	2.0	11/13/24 18:56	
NEtFOSE	ng/L	<0.61	2.0	11/13/24 18:56	
NMeFOSA	ng/L	<0.63	2.0	11/13/24 18:56	
NMeFOSAA	ng/L	<0.79	2.0	11/13/24 18:56	
NMeFOSE	ng/L	<0.49	2.0	11/13/24 18:56	
PFBA	ng/L	<0.28	2.0	11/13/24 18:56	
PFBS	ng/L	<0.21	1.8	11/13/24 18:56	
PFDA	ng/L	<0.25	2.0	11/13/24 18:56	
PFDoA	ng/L	<0.44	2.0	11/13/24 18:56	
PFDoS	ng/L	<0.54	2.0	11/13/24 18:56	
PFDS	ng/L	<0.58	2.0	11/13/24 18:56	
PFHpA	ng/L	<0.24	2.0	11/13/24 18:56	
PFHpS	ng/L	<0.64	1.9	11/13/24 18:56	
PFHxA	ng/L	<0.38	2.0	11/13/24 18:56	
PFHxS	ng/L	<0.24	1.8	11/13/24 18:56	
PFNA	ng/L	<0.21	2.0	11/13/24 18:56	
PFNS	ng/L	<0.48	1.9	11/13/24 18:56	
PFOA	ng/L	<0.27	2.0	11/13/24 18:56	
PFOS	ng/L	<0.52	1.9	11/13/24 18:56	
PFOSA	ng/L	<0.40	2.0	11/13/24 18:56	
PFPeA	ng/L	<0.19	2.0	11/13/24 18:56	
PFPeS	ng/L	<0.26	1.9	11/13/24 18:56	
PFTeDA	ng/L	<0.37	2.0	11/13/24 18:56	
PFTrDA	ng/L	<0.29	2.0	11/13/24 18:56	
PFUnA	ng/L	<0.65	2.0	11/13/24 18:56	
13C2-PFDoA (S)	%.	85	25-150	11/13/24 18:56	
13C2-PFTA (S)	%.	80	25-150	11/13/24 18:56	
13C24:2FTS (S)	%.	77	25-150	11/13/24 18:56	
13C26:2FTS (S)	%.	68	25-150	11/13/24 18:56	
13C28:2FTS (S)	%.	91	25-150	11/13/24 18:56	
13C2PFHxDA (S)	%.	58	25-150	11/13/24 18:56	
13C3-PFBS (S)	%.	95	25-150	11/13/24 18:56	

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(920)469-2436

QUALITY CONTROL DATA

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

METHOD BLANK: 5115736 Matrix: Water
Associated Lab Samples: 40286024001, 40286024002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C3-PFHxS (S)	%.	89	25-150	11/13/24 18:56	
13C3HFPO-DA (S)	%.	91	25-150	11/13/24 18:56	
13C4-PFBA (S)	%.	87	25-150	11/13/24 18:56	
13C4-PFHpA (S)	%.	88	25-150	11/13/24 18:56	
13C5-PFHxA (S)	%.	92	25-150	11/13/24 18:56	
13C5-PFPeA (S)	%.	91	25-150	11/13/24 18:56	
13C6-PFDA (S)	%.	91	25-150	11/13/24 18:56	
13C7-PFUdA (S)	%.	90	25-150	11/13/24 18:56	
13C8-PFOA (S)	%.	88	25-150	11/13/24 18:56	
13C8-PFOS (S)	%.	89	25-150	11/13/24 18:56	
13C8-PFOSA (S)	%.	81	25-150	11/13/24 18:56	
13C9-PFNA (S)	%.	86	25-150	11/13/24 18:56	
d3-MeFOSAA (S)	%.	77	25-150	11/13/24 18:56	
d3-NMeFOSA (S)	%.	38	20-150	11/13/24 18:56	
d5-EtFOSAA (S)	%.	80	25-150	11/13/24 18:56	
d5-NEtFOSA (S)	%.	36	20-150	11/13/24 18:56	
d7-NMeFOSE (S)	%.	74	20-150	11/13/24 18:56	
d9-NEtFOSE (S)	%.	74	20-150	11/13/24 18:56	

LABORATORY CONTROL SAMPLE & LCSD: 5115737 5115738

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
11Cl-PF3OUdS	ng/L	3.8	3.6	3.3	95	86	50-150	9	30	
4:2 FTS	ng/L	3.8	3.9	3.7	103	96	50-150	5	30	
6:2 FTS	ng/L	3.9	4.2	3.5	110	90	50-150	18	30	
8:2 FTS	ng/L	3.9	4.1	3.2	104	82	50-150	22	30	
9Cl-PF3ONS	ng/L	3.8	3.8	3.3	99	86	50-150	14	30	
ADONA	ng/L	3.8	4.0	3.8	105	98	50-150	6	30	
HFPO-DA	ng/L	4.1	4.4	4.2	110	102	50-150	6	30	
NEtFOSA	ng/L	4.1	4.3	4.2	106	101	50-150	4	30	
NEtFOSAA	ng/L	4.1	4.6	4.2	113	103	50-150	8	30	
NEtFOSE	ng/L	4.1	4.2	4.7	102	116	50-150	13	30	
NMeFOSA	ng/L	4.1	4.6	4.2	114	101	50-150	11	30	
NMeFOSAA	ng/L	4.1	4.5	4.6	111	111	50-150	1	30	
NMeFOSE	ng/L	4.1	4.7	4.0	116	98	50-150	16	30	
PFBA	ng/L	4.1	4.2	5.5	103	135	50-150	28	30	
PFBS	ng/L	3.6	3.9	3.6	108	99	50-150	8	30	
PFDA	ng/L	4.1	3.9	3.8	96	92	50-150	3	30	
PFDoA	ng/L	4.1	4.2	3.9	104	95	50-150	9	30	
PFDoS	ng/L	3.9	3.6	3.2	91	79	50-150	13	30	
PFDS	ng/L	3.9	4.1	3.5	105	88	50-150	17	30	
PFHpA	ng/L	4.1	4.3	4.0	105	97	50-150	7	30	
PFHpS	ng/L	3.9	3.8	3.9	98	99	50-150	2	30	
PFHxA	ng/L	4.1	4.5	4.0	110	97	50-150	12	30	

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(920)469-2436

QUALITY CONTROL DATA

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

LABORATORY CONTROL SAMPLE & LCSD: 5115737 5115738

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PFHxS	ng/L	3.7	3.8	3.5	103	93	50-150	9	30	
PFNA	ng/L	4.1	4.1	3.8	101	94	50-150	6	30	
PFNS	ng/L	3.9	4.1	3.7	104	93	50-150	10	30	
PFOA	ng/L	4.1	4.4	4.1	109	100	50-150	8	30	
PFOS	ng/L	3.8	3.6	3.6	95	94	50-150	0	30	
PFOSA	ng/L	4.1	4.3	4.1	107	99	50-150	6	30	
PFPeA	ng/L	4.1	4.3	4.0	107	97	50-150	9	30	
PFPeS	ng/L	3.8	4.2	3.8	109	98	50-150	10	30	
PFTeDA	ng/L	4.1	4.1	4.1	102	100	50-150	1	30	
PFTrDA	ng/L	4.1	4.4	3.9	109	95	50-150	13	30	
PFUnA	ng/L	4.1	4.2	3.6	103	87	50-150	15	30	
13C2-PFDoA (S)	%.				84	81	25-150			
13C2-PFTA (S)	%.				77	74	25-150			
13C24:2FTS (S)	%.				91	88	25-150			
13C26:2FTS (S)	%.				74	75	25-150			
13C28:2FTS (S)	%.				87	93	25-150			
13C2PFHxDA (S)	%.				55	51	25-150			
13C3-PFBS (S)	%.				98	97	25-150			
13C3-PFHxS (S)	%.				92	93	25-150			
13C3HFPO-DA (S)	%.				102	97	25-150			
13C4-PFBA (S)	%.				90	90	25-150			
13C4-PFHpA (S)	%.				92	91	25-150			
13C5-PFHxA (S)	%.				97	95	25-150			
13C5-PFPeA (S)	%.				94	93	25-150			
13C6-PFDA (S)	%.				95	89	25-150			
13C7-PFUdA (S)	%.				90	88	25-150			
13C8-PFOA (S)	%.				91	90	25-150			
13C8-PFOS (S)	%.				97	95	25-150			
13C8-PFOSA (S)	%.				85	84	25-150			
13C9-PFNA (S)	%.				90	88	25-150			
d3-MeFOSAA (S)	%.				73	76	25-150			
d3-NMeFOSA (S)	%.				43	44	20-150			
d5-EtFOSAA (S)	%.				79	77	25-150			
d5-NEtFOSA (S)	%.				45	42	20-150			
d7-NMeFOSE (S)	%.				75	75	20-150			
d9-NEtFOSE (S)	%.				76	74	20-150			

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QUALIFIERS

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - The reported result is an estimated value.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

DL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

S0	Surrogate recovery outside laboratory control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6078 SAINT FRANCIS AUTO WRECKE
Pace Project No.: 40286024

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40286024001	**MW-2**	ENV-SOP-MIN4-0178	978971	ENV-SOP-MIN4-0178	979735
40286024002	**MW-3B**	ENV-SOP-MIN4-0178	978971	ENV-SOP-MIN4-0178	979735
40286024003	**MW-6**	ENV-SOP-MIN4-0178	977968	ENV-SOP-MIN4-0178	978994
40286024004	**PZ-1**	ENV-SOP-MIN4-0178	977968	ENV-SOP-MIN4-0178	978994
40286024005	**MW-5 DF**	ENV-SOP-MIN4-0178	977968	ENV-SOP-MIN4-0178	978994
40286024006	**MW-6 DF**	ENV-SOP-MIN4-0178	977968	ENV-SOP-MIN4-0178	978994
40286024007	**MPZ-3**	ENV-SOP-MIN4-0178	977968	ENV-SOP-MIN4-0178	978994
40286024008	**FIELD BLANK**	ENV-SOP-MIN4-0178	977968	ENV-SOP-MIN4-0178	978994

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402860 24

(Please Print Clearly)	
Company Name:	Moraine Environmental, Inc.
Branch/Location:	Fredonia, WI
Project Contact:	Dave Lennon
Phone:	(262) 692-3345
Project Number:	6078
Project Name:	Saint Francis Auto Wreckers
Project State:	Wisconsin
Sampled By (Print):	Dave Lennon
Sampled By (Sign):	Dave Lennon
PO #:	Regulatory Program:

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www.pacelabs.com

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

COC No.

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:	
Mail To Company:	Moraine Environmental, Inc.
Mail To Address:	766 Tower Drive Fredonia, WI 53021
Invoice To Contact:	same
Invoice To Company:	as
Invoice To Address:	above
Invoice To Phone:	

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, SI = 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	FILTERED? (YES/NO) Y/N	Analyses Requested: PRESERVATION (CODE)* Pick Letter	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	MW-2	10/16/24		GW	N	A / PFAS: X		001	
	MW-3B	10/16/24		GW	N	A / PFAS: X		002	
	MW-6	10/16/24		GW	N	A / PFAS: X		003	
	PZ-1	10/16/24		GW	N	A / PFAS: X		004	
	MW-5 DF	10/16/24		GW	N	A / PFAS: X		005	
	MW-6 DF	10/16/24		GW	N	A / PFAS: X		006	
	MPZ-3	10/16/24		GW	N	A / PFAS: X		007	
	Field Blank	10/16/24		GW	N	A / PFAS: X		008	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed: **10/21/2024**

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:
Dave Lennon	10/17/2024 8:30		
CS Logistic	10/18/24 0800	[illegible]	10/18/24 0800

PACE Project No.

Receipt Temp = 0.0/0.0°C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present

Intact / Not Intact

Version 6.0 06/14/06

DC#_Title: ENV-FRM-GBAY-0035 v03_Sample Preservation Receipt Form
Effective Date: 8/16/2022

Sample Preservation Receipt Form

Client Name: Moreline Env Project # 40286024

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☑N/A

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted): Initial when completed: Date/ Time:

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	Vials: VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN 1	GN 2	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
002									2																									2.5 / 5
003									2																									2.5 / 5
004									2																									2.5 / 5
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YA 10/18/24

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	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

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Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40286024

Client Name: Moraine Env

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

Tracking #: MA

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 - 127 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 0.0 /Corr: 0.0

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

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

Person examining contents:
Date: 10/18/24 Initials: YN

Labeled By Initials: CF

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
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.
- DI 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.
Correct Type: (Pace Green Bay), Pace IR, Non-Pace		
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☐Yes ☑No ☐N/A	12. no time on all samples YN 10/18/24
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