
PREPARED BY

EnviroForensics, LLC
N16W23390 Stone Ridge Drive, Suite G
Waukesha, WI 53188



October 26, 2022

Jim Jones
Director of Facilities
Goodwill NCW
1800 Appleton Road, Menasha, WI 54952

**Subject: Environmental sampling results
BRTTS #: 02-71-467001**

Dear Mr. Jones:

In accordance with Wisconsin Department of Natural Resources (WDNR) regulation NR 716.14, EnviroForensics, LLC (EnviroForensics) is providing the results of groundwater samples collected on August 11, 2022 from the Goodwill property located at 907 S. Green Bay Road in Neenah, Wisconsin. The sampling activities are part of an environmental investigation being performed for Gunderson Cleaners formerly located at 891 S. Green Bay Road at the direction of the Wisconsin Department of Natural Resources (WDNR). The chemicals of concern for the investigation are the dry cleaning solvent tetrachloroethene (PCE) and its associated breakdown products.

The Responsible Party is:

Gunderson Cleaners
41 Main Street
Menasha, WI 54952
920-727-4000

Groundwater samples were collected from four (4) monitoring wells at the property and analyzed for per- and polyfluoroalkyl substances (PFAS). The wells from which samples were collected are highlighted on the attached **Figure 1**.

Sampling Results

The PFAS analysis results are summarized in **Table 1**. The laboratory analytical report is also attached. Several PFAS were detected in each of the groundwater samples, including PFOA and

Document: 200016-0207



PFOS at concentrations above the proposed preventive action limits but below the proposed enforcement standards. The concentrations of all other detected substances were less than their proposed regulatory criteria.

If you have any questions or concerns, please contact me at 262-745-5054 or by email at bkappen@enviroforensics.com. The WDNR project manager, Kevin McKnight, can be reached at 920-808-0170. We greatly appreciate your help and patience with this matter.

Sincerely,
EnviroForensics, LLC

A handwritten signature in blue ink that reads "Brian Kappen".

Brian Kappen, PG
Project Manager

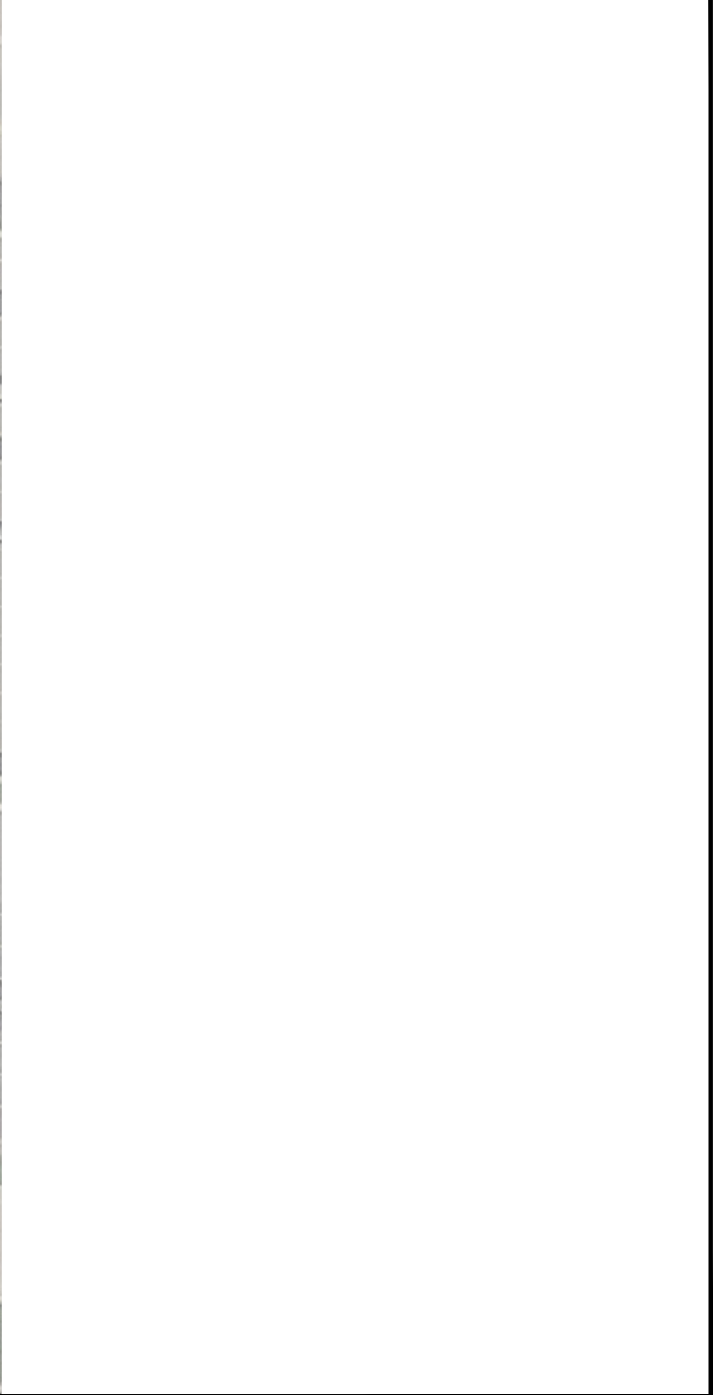
Attachments: Figure 1: Groundwater Monitoring Network and PFAS Sampling Locations
Table 1: Detected PFAS in Groundwater
Laboratory Analytical Report

Copy: Kevin McKnight, Wisconsin Department of Natural Resources



Legend

	Property boundary
	Monitoring Well
	Sump
	PFAS Sample Location



GROUNDWATER MONITORING NETWORK
AND PFAS SAMPLING LOCATIONS

Gundersons Cleaners
891 South Green Bay Road
Neenah, Wisconsin

Date:	6/29/22
Designed:	EB
Drawn:	EB
Checked:	BK
DWG file:	200016-0190



825 North Capitol Avenue • Indianapolis, IN 46204
EnviroForensics.com

Figure	1
Project	200016

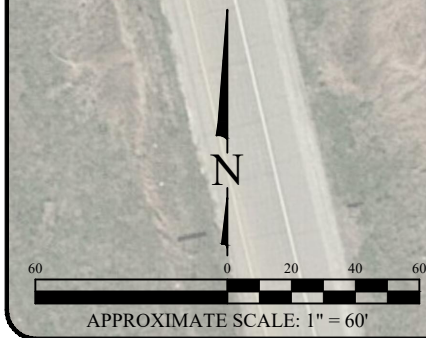


TABLE 1
DETECTED PFAS IN GROUNDWATER

Former Gunderson Cleaners

Neenah, Wisconsin

Monitoring Well/ Sample ID	Sample Date	PFOA	PFOS	PFBA	PFBS	PFDA	PFHxA	PFHxS	PFHpA	PFPeA	PFPeS	6:2 FTS
Proposed Enforcement Standard		20*	20*	10,000	450,000	300	150,000	40	NE	NE	NE	NE
Proposed Preventive Action Limit		2*	2*	2,000	90,000	60	30,000	4	NE	NE	NE	NE
PZ-104	8/11/2022	9.7	<0.66	7.2	2.1	<0.60	4.8	1.2 J	3.3	4.4	0.60 J	1.9 J
MW-105	8/11/2022	3.8	1.5 J	6.1	9.3	<0.61	6.2	0.89 J	1.8 J	7.3	<0.60	0.97 J
MW-116	8/11/2022	1.4 J	3.9	6.9	9.6	0.69 J	1.7 J	<0.54	<0.70	1.6 J	<0.61	2.1
DUP-1 (MW-116)		1.5 J	4.0	6.7	9.4	0.66 J	1.6 J	<0.54	<0.71	1.7 J	<0.62	<0.69
PZ-119	8/11/2022	3.6	3.6	9.6	2.2	<0.64	4.6	2.0	2.0 J	3.1	<0.64	2.2
FB-1 (Field Blank)	8/11/2022	<0.84	<0.65	<0.49	<0.47	<0.60	<0.89	<0.52	<0.67	<0.80	<0.59	<0.66
EB-1 (Equipment Blank)	8/11/2022	<0.85	<0.66	<0.49	<0.48	<0.60	<0.90	<0.52	<0.68	<0.81	<0.59	0.91 J

Notes:

All concentrations reported in units of nanograms per liter (ng/L)

Bolded values are above detection limits

Bolded and blue shaded values are above proposed groundwater preventative action limits

Bolded and orange shaded values are above proposed groundwater enforcement standards

* Proposed groundwater standard applies to individual compound or combined PFOA and PFOS

J = Analyte concentration detected between the laboratory limit of detection and limit of quantification

NE = Not Established

September 29, 2022

Brian Kappen
Enviroforensics
N16 W23390 Stone Ridge Drive
Suite G
Waukesha, WI 53188

RE: Project: GUNDERSON CLEANERS 200016
Pace Project No.: 40249783

Dear Brian Kappen:

Enclosed are the analytical results for sample(s) received by the laboratory on August 12, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: GUNDERSON CLEANERS 200016

Pace Project No.: 40249783

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40249783001	200016-PZ-119	Water	08/11/22 09:52	08/12/22 08:25
40249783002	200016-MW-116	Water	08/11/22 11:00	08/12/22 08:25
40249783003	200016-MW-105	Water	08/11/22 12:28	08/12/22 08:25
40249783004	200016-PZ-104	Water	08/11/22 13:15	08/12/22 08:25
40249783005	200016-DUP-1	Water	08/11/22 12:00	08/12/22 08:25
40249783006	200016-FB-1	Water	08/11/22 12:05	08/12/22 08:25
40249783007	200016-EB-1	Water	08/11/22 13:25	08/12/22 08:25

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

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

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

4024983

ALL SHADED AREAS are for LAB USE ONLY

Company: **EnviroForensics**

Billing Information: **EnviroForensics**

Address: **Waukesha, WI**

accounts payable@enviroforensics.com

Report To: **Brian Kappen**

Email To: **11 11**

Copy To:

Site Collection Info/Address: **Neenah, WI**

Customer Project Name/Number: **Gunderson Cleaners 200016**

State: **1** County/City: **1** Time Zone Collected: **[] PT [] MT [] CT [] ET**

Phone: **262-745-5054**

Site/Facility ID #:

Compliance Monitoring? **[] Yes [X] No**

Collected By (print): **B. Kappen**

Purchase Order #: **Quote #:**

DW PWS ID #: **DW Location Code:**

Collected By (Signature): **B. Kappen**

Turnaround Date Required:

Immediately Packed on Ice: **[X] Yes [] No**

Sample Disposal: **[X] Dispose as appropriate [] Return [] Archive: [] Hold:**

Rush: **[] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day (Expedite Charges Apply)**

Field Filtered (if applicable): **[] Yes [X] No**
Analysis:

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
200016-PZ-119	GW	Grab	8/11/22	952				2
200016-MW-116	GW	Grab		1100				2
200016-MW-105	GW	Grab		1228				2
200016-PZ-104	GW	Grab		1315				2
200016-DUP-1	GW	Grab		1200				2
200016-FB-1	W	Grab		1205				1
200016-FB-1	W	Grab		1325				1

XXXXXX PEAS ID 33 WDNR

Container Preservative Type **

Lab Project Manager:

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

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA

Custody Signatures Present Y N NA

Collector Signature Present Y N NA

Bottles Intact Y N NA

Correct Bottles Y N NA

Sufficient Volume Y N NA

Samples Received on Ice Y N NA

VOA - Headspace Acceptable Y N NA

USDA Regulated Soils Y N NA

Samples in Holding Time Y N NA

Residual Chlorine Present Y N NA

Cl Strips: Y N NA

Sample pH Acceptable Y N NA

pH Strips: Y N NA

Sulfide Present Y N NA

Lead Acetate Strips: Y N NA

LAB USE ONLY: Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

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

Packing Material Used: **1**

Lab Tracking #: **2824941**

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

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: _____

Cooler 1 Temp Upon Receipt: _____ oC

Cooler 1 Therm Corr. Factor: _____ oC

Cooler 1 Corrected Temp: _____ oC

Comments:

Relinquished by/Company (Signature): **B. Kappen**

Date/Time: **8/11/22 1540**

Received by/Company (Signature): **CS Logistics**

Date/Time: **8/11/22 1540**

MTJL LAB USE ONLY

Relinquished by/Company (Signature): **CS Logistics**

Date/Time: **8/12/22 0825**

Received by/Company (Signature): **Anthony Herdel**

Date/Time: **8/12/22 0825**

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: **3** of **54**

Effective Date: 8/3/2022

Sample Preservation Receipt Form

Client Name: Enviroforensics

Project # 40249783

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							Plastic					Vials					Jars				General			VOA Vials (>6mm)	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)			
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC								GN		
001																																		2.5 / 5 / 10
002																																		2.5 / 5 / 10
003																																		2.5 / 5 / 10
004																																		2.5 / 5 / 10
005																																		2.5 / 5 / 10
006																																		2.5 / 5 / 10
007																																		2.5 / 5 / 10
008																																		2.5 / 5 / 10
009																																		2.5 / 5 / 10
010																																		2.5 / 5 / 10
011																																		2.5 / 5 / 10
012																																		2.5 / 5 / 10
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014																																		2.5 / 5 / 10
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016																																		2.5 / 5 / 10
017																																		2.5 / 5 / 10
018																																		2.5 / 5 / 10
019																																		2.5 / 5 / 10
020																																		2.5 / 5 / 10


8/12/22
AL

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	VG9A 40 mL clear ascorbic	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
AG4U 120 mL amber glass unpres	BP3S 250 mL plastic H2SO4	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG5U 100 mL amber glass unpres		VG9D 40 mL clear vial DI	ZPLC ziploc bag
AG2S 500 mL amber glass H2SO4			GN
BG3U 250 mL clear glass unpres			

Sample Condition Upon Receipt Form (SCUR)

Client Name: Enviroforensics

Project #: WO#: 40249783

 40249783

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

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no ^{8/12/22 AW} 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-115 Type of Ice: Wet Blue Dry None Samples on ice

Cooler Temperature Uncorr: 5 / Corr: 4.6

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: 8/12/22 / Initials: AW
 Labeled By Initials: MP

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>+CC 8/12/22 AW</u>
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>no paff, collect dates 8/12/22 AW</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. <u>also received one empty BP30 8/12/22 AW</u>
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>002-007: "8/11/22" 8/12/22 AW</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: Dust seal present, not signed/dated 8/12/22 AW

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

Report Prepared for:

Dan Milewsky
PACE Wisconsin
1241 Bellevue Street
Green Bay WI 54302

**REPORT OF
LABORATORY
ANALYSIS
FOR PFAAs**

Report Prepared Date:

September 28, 2022

Report Information:

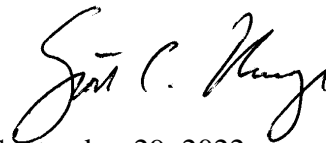
Pace Project #: 10621301
Sample Receipt Date: 08/13/2022
Client Project #: 40249783 Enviroforensics
Client Sub PO #: N/A
State Cert #: N/A

Invoicing & Reporting Options:

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

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

This report has been reviewed by:



September 29, 2022

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com



Report of Laboratory Analysis

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.

DISCUSSION

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

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank was free of the target perfluorinated compounds at the reporting limits. This indicates that the sample processing procedures did not significantly contribute to the analyte content determined for the sample material.

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

Diminished extracted internal standard (EIS) recovery ("R" flagged) were present in samples, however, the use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard.

Several samples have elevated EIS recoveries ("R" flagged) for FTS. While the use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard, in the case of the FTS compounds, the recoveries are anomalously high, and are adversely impacted by matrix. The results for these native compounds should be considered estimated.

Several samples and BLANK-100899 have recoveries less than 1% for selected EIS. The results for these native compounds should be considered estimated.

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

Concentrations below the calibration range were flagged "J" and should be regarded as estimates.

Minnesota Laboratory Certifications

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

REPORT OF LABORATORY ANALYSIS

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

Appendix A

Sample Management

REPORT OF LABORATORY ANALYSIS

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Sample ID Cross Reference

<u>Client Sample ID</u>	<u>Pace Sample ID</u>	<u>Date Received</u>	<u>Sample Type</u>
200016-PZ-119	40249783001	08/13/2022	Water
200016-MW-116	40249783002	08/13/2022	Water
200016-MW-105	40249783003	08/13/2022	Water
200016-PZ-104	40249783004	08/13/2022	Water
200016-DUP-1	40249783005	08/13/2022	Water
200016-FB-1	40249783006	08/13/2022	Water
200016-EB-1	40249783007	08/13/2022	Water

REPORT OF LABORATORY ANALYSIS

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Internal Transfer Chain of Custody



Report No.: 10621301_ID36_DFR

Samples Pre-Logged into eCOC.

State Of Origin: WI
 Cert. Needed: Yes No

Workorder: 40249783 Workorder Name: GUNDERSON CLEANERS 200016 Results Requested By: 9/13/2022

Dan Milewsky
 Pace Analytical Green Bay
 1241 Bellevue Street
 Suite 9
 Green Bay, WI 54302
 Phone (920)469-2436

Pace Analytical Minnesota
 1700 Elm Street SE
 Suite 200
 Minneapolis, MN 55414
 Phone (612)607-1700

Requester Analysts

WO#: 10621301

Item / Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers		Date/Time	Comments
					Unpreserved	Preserved		
1	PS	8/11/2022 09:52	40249783001	Water	2			
2	PS	8/11/2022 11:00	40249783002	Water	2			
3	PS	8/11/2022 12:28	40249783003	Water	2			
4	PS	8/11/2022 13:15	40249783004	Water	2			
5	PS	8/11/2022 12:00	40249783005	Water	2			
6	PS	8/11/2022 12:05	40249783006	Water	1			
7	PS	8/11/2022 13:25	40249783007	Water	1			

Transfers	Released By	Received By	Date/Time	Received on Ice	Y	or	N	Samples Intact	Y	or	N
1	<i>[Signature]</i>	<i>[Signature]</i>	8/12/2022 7:14 AM	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			
2											
3											

Cooler Temperature on Receipt: 16 °C Custody Seal: Y N Received on Ice: Y N Samples Intact: Y N

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



DC#_Title: ENV-FRM-MIN4-0150 v05_Sample Condition Upon Receipt (SCUR)

Effective Date: 04/12/2022

Sample Condition Upon Receipt

Client Name:

P.A. Green Bay

Project #:

WO#: 10621301

Courier:

FedEx, UPS, USPS, Client, Pace, SpeeDee, Commercial

PM: KNH

Due Date: 09/13/22

CLIENT: PASI-WI

Tracking Number:

See Exceptions ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present? Yes No

Seals Intact? Yes No

Biological Tissue Frozen? Yes No N/A

Packing Material: Bubble Wrap, Bubble Bags, None, Other: Ziplock

Temp Blank? Yes No

Thermometer: T1(0461), T2(1336), T3(0459), T4(0254), T5(0489), T6(0235), T7(0042), 01339252/1710, 122639816, 140792808

Type of Ice: Wet, Blue, None, Dry, Melted

Did Samples Originate in West Virginia? Were All Container Temps Taken?

Temp should be above freezing to 6°C

Cooler Temp Read w/temp blank: 1.6 °C

Average Corrected Temp (no temp blank only): °C

Correction Factor: True Cooler Temp Corrected w/temp blank: 1.6 °C

USDA Regulated Soil: N/A, water sample/Other

Date/Initials of Person Examining Contents: 08/13/22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?

If Yes to either question, fill out a Regulated Soil Checklist ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.

Table with 14 rows of questions and checkboxes regarding sample handling, custody, and analysis. Includes sections for 'Chain of Custody', 'Short Hold Time Analysis', 'Rush Turn Around Time', 'Field Filtered Volume', 'Is sufficient information available', 'All containers needing acid/base preservation', 'Exceptions: VOA, Coliform, TOC/DOC Oil and Grease', 'Headspace in Methyl Mercury Container', 'Extra labels present on soil VOA or WIDRO containers', 'Trip Blank Present?'

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: Comments/Resolution:

Date/Time: Field Data Required? Yes No

Project Manager Review: [Signature]

Date: 08/15/22

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

Labeled by: [Signature]



CHAIN-OF-CUSTODY Analytical Request Document

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

Company: Enviroforensics
Address: Waukesha, WI
Report To: Brian Kappen
Copy To:
Billing Information: Enviroforensics
accounts payable@enviroforensics.com
Email To: 11
Site Collection Info/Address: Meenah, WI

Customer Project Name/Number: Gunderson Cleaners 200016
Phone: 262-745-5054
Site/Facility ID #:
Purchase Order #:
Collected By (print): B. Kappen
Turnaround Date Required:
Rush:
Sample Disposal:
Matrix Codes (insert in Matrix box below): Drinking Water (GW), Ground Water (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Table with columns: Customer Sample ID, Matrix, Comp / Grab, Date, Time, Collected (or Composite Start), Composite End, Date, Time, Res CI, # of Ctns

Customer Remarks / Special Conditions / Possible Hazards:
Type of Ice Used: Wet Blue Dry None
Packing Material Used:
Raddchem sample(s) screened (<500 cpm): Y N NA

Relinquished by Company (Signature):
Date/Time: 8/12/22 1540
Received by Company (Signature): CS Logistics
Date/Time: 8/12/22 0825

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTIL Log-in Number Here
40 249 83

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

Table with columns: Lab Profile/Line, Lab Sample Receipt Checklist, Custody Seals Present/Intact, Collector Signatures Present, Bottles - Intact, Correct Bottles, Sufficient Volume, Samples Received On, VOA - Headspace Testable, USDA Regulated Solids, Samples in Holding Tank, Residual Chlorine Present, Cl Strips, pH Strips, Sulfide Strips, Lead Acetate Strips, LAB USE ONLY, Lab Sample # / Comments

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: °C
Cooler 1 Thermost Factor: °C
Cooler 1 Corrected Temp: °C
Comments:
Trip Blank Received: Y N NA
HCL MeOH TSP Other
Non Conformance(s): YES / NO

Client Name: Enicospensics Project # 249783

All containers needing preservation have been checked and noted below: Yes No

Lab Lot# of pH paper: N/A

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

Initial when completed:

Date/Time:

Pace Lab #	Glass					Plastic					Vials					Jars					General					VOA Vials (>6mm)	H2SO4 pH <2	NaOH+Zn Act pH <9	NaOH pH <12	HNO3 pH <2	pH after adjusted	Volume (mL)
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC							
001																												2.5/5/10				
002																												2.5/5/10				
003																												2.5/5/10				
004																												2.5/5/10				
005																												2.5/5/10				
006																												2.5/5/10				
007																												2.5/5/10				
008																												2.5/5/10				
009																												2.5/5/10				
010																												2.5/5/10				
011																												2.5/5/10				
012																												2.5/5/10				
013																												2.5/5/10				
014																												2.5/5/10				
015																												2.5/5/10				
016																												2.5/5/10				
017																												2.5/5/10				
018																												2.5/5/10				
019																												2.5/5/10				
020																												2.5/5/10				

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: Yes No

AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU	SP5T	ZPLC	GN
1 liter amber glass	1 liter clear glass	1 liter amber glass HCL	125 mL amber glass H2SO4	120 mL amber glass unpres	100 mL amber glass unpres	500 mL amber glass H2SO4	250 mL clear glass unpres	1 liter plastic unpres	250 mL plastic unpres	250 mL plastic NaOH	250 mL plastic HNO3	250 mL plastic H2SO4	40 mL clear ascorbic	40 mL amber Na Thio	40 mL clear vial unpres	40 mL clear vial HCL	40 mL clear vial MeOH	40 mL clear vial DI	4 oz amber jar unpres	9 oz amber jar unpres	4 oz clear jar unpres	4 oz plastic jar unpres	120 mL plastic Na Thiosulfate	ZPLC	GN

Sample Condition Upon Receipt Form (SCUR)

Project #: _____

Client Name: Enviroforensics

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____

WO#: **40249783**



Tracking #: _____

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-115 Type of Ice: Wet Blue Dry None Samples on ice

Cooler Temperature Uncorr: 3 /Corr: 4.6

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 8/12/22 /Initials: AW
 Labeled By Initials: _____

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. xCC 8/12/22 AW
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. no path, collect dates 8/12/22 AW
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. also received one empty BP3U 8/12/22 AW
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. 002-007: "8/11/22" 8/12/22 AW
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: Dust seal present, not signed/dated 8/12/22 AW

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40249783001	200016-PZ-119	SW3535	33768	PFAS-36	B220908A_01
40249783002	200016-MW-116	SW3535	33768	PFAS-36	B220908A_01
40249783003	200016-MW-105	SW3535	33768	PFAS-36	B220908A_01
40249783004	200016-PZ-104	SW3535	33768	PFAS-36	B220908A_01
40249783005	200016-DUP-1	SW3535	33768	PFAS-36	B220908A_01
40249783006	200016-FB-1	SW3535	33768	PFAS-36	B220908A_01
40249783007	200016-EB-1	SW3535	33768	PFAS-36	B220908A_01



Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
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Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID 200016-PZ-119
 Lab Sample ID 40249783001
 Lab File ID B220908A_014
 Matrix Non_Potable_Water
 Collected 08/11/2022 09:52
 Received 08/13/2022 11:55
 Extraction Date 08/31/2022 12:48

Total Amount Extracted 236mL
 Ical ID 220831A02
 CCal File B220908A_013
 Ending CCal File B220908A_024
 Blank File B220916B_004

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	9.6	2.1	0.53	0.53	1	375-22-4		09/08/2022 12:51
PFPeA	3.1	2.1	0.87	0.87	1	2706-90-3		09/08/2022 12:51
HFPO-DA	ND	2.1	0.52	0.52	1	13252-13-6		09/08/2022 12:51
PFBS	2.2	1.9	0.51	0.51	1	375-73-5		09/08/2022 12:51
PFHxA	4.6	2.1	0.96	0.96	1	307-24-4		09/08/2022 12:51
4:2 FTS	ND	2.0	0.49	0.49	1	757124-72-4		09/08/2022 12:51
PFPeS	ND	2.0	0.64	0.64	1	2706-91-4		09/08/2022 12:51
PFHpA	2.0 J	2.1	0.73	0.73	1	375-85-9		09/08/2022 12:51
DONA	ND	2.0	0.97	0.97	1	919005-14-4		09/08/2022 12:51
PFHxS	2.0	1.9	0.56	0.56	1	355-46-4		09/08/2022 12:51
PFOA	3.6	2.1	0.91	0.91	1	335-67-1		09/08/2022 12:51
6:2 FTS	2.2	2.0	0.71	0.71	1	27619-97-2		09/08/2022 12:51
PFHpS	ND	2.0	0.71	0.71	1	375-92-8		09/08/2022 12:51
PFNA	ND	2.1	0.84	0.84	1	375-95-1		09/08/2022 12:51
PFOSAm	ND	2.1	0.76	0.76	1	754-91-6		09/08/2022 12:51
PFOS	3.6	2.0	0.70	0.70	1	1763-23-1		09/08/2022 12:51
MeFOSA	ND	2.1	0.58	0.58	1	31506-32-8		09/08/2022 12:51
PFDA	ND	2.1	0.64	0.64	1	335-76-2		09/08/2022 12:51
EtFOSAm	ND	2.1	0.61	0.61	1	4151-50-2		09/08/2022 12:51
8:2 FTS	ND	2.0	0.53	0.53	1	39108-34-4		09/08/2022 12:51
9-CI-PF3ON	ND	2.0	0.50	0.50	1	756426-58-1		09/08/2022 12:51
PFNS	ND	2.0	0.62	0.62	1	68259-12-1		09/08/2022 12:51
PFUnDA	ND	2.1	0.51	0.51	1	2058-94-8		09/08/2022 12:51
NMeFOSAA	ND	2.1	0.73	0.73	1	2355-31-9		09/08/2022 12:51
NEtFOSAA	ND	2.1	0.86	0.86	1	2991-50-6		09/08/2022 12:51
PFDS	ND	2.0	0.68	0.68	1	335-77-3		09/08/2022 12:51
PFDOA	ND	2.1	0.51	0.51	1	307-55-1		09/08/2022 12:51
MeFOSE	ND	2.1	0.55	0.55	1	24448-09-7		09/08/2022 12:51
EtFOSE	ND	2.1	0.94	0.94	1	1691-99-2		09/08/2022 12:51
11-CI-PF3OUdS	ND	2.0	0.59	0.59	1	763051-92-9		09/08/2022 12:51
PFTTrDA	ND	2.1	0.66	0.66	1	72629-94-8		09/08/2022 12:51
PFDoS	ND	2.0	0.63	0.63	1	79780-39-5		09/08/2022 12:51
PFTDA	ND	2.1	0.64	0.64	1	376-06-7		09/08/2022 12:51

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID 200016-PZ-119
 Lab Sample ID 40249783001
 Lab File ID B220908A_014
 Matrix Non_Potable_Water
 Collected 08/11/2022 09:52
 Received 08/13/2022 11:55
 Extraction Date 08/31/2022 12:48

Total Amount Extracted 236mL
 Ical ID 220831A02
 CCal File B220908A_013
 Ending CCal File B220908A_024
 Blank File B220916B_004

Injection Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	21	21	102	50-150		09/08/2022 12:51
13C4 PFOA	21	20	97	50-150		09/08/2022 12:51
13C2 PFDA	21	24	113	50-150		09/08/2022 12:51
13C4 PFOS	20	22	108	50-150		09/08/2022 12:51

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	21	19	92	25-150		09/08/2022 12:51
13C5 PFPeA	21	21	100	25-150		09/08/2022 12:51
13C3 PFBS	20	18	94	25-150		09/08/2022 12:51
13C2 4:2FTS	20	29	144	25-150		09/08/2022 12:51
13C5 PFHxA	21	21	100	25-150		09/08/2022 12:51
13C4 PFHpA	21	22	106	25-150		09/08/2022 12:51
13C3 PFHxS	20	19	93	25-150		09/08/2022 12:51
13C2 6:2FTS	20	21	104	25-150		09/08/2022 12:51
13C8 PFOA	21	20	96	25-150		09/08/2022 12:51
13C9 PFNA	21	22	103	25-150		09/08/2022 12:51
13C8 PFOS	20	19	94	25-150		09/08/2022 12:51
13C2 8:2FTS	20	18	89	25-150		09/08/2022 12:51
13C6 PFDA	21	18	87	25-150		09/08/2022 12:51
d3-MeFOSAA	21	16	74	25-150		09/08/2022 12:51
13C8 PFOSA	21	10.0	47	25-150		09/08/2022 12:51
d5-EtFOSAA	21	16	78	25-150		09/08/2022 12:51
13C7 PFUdA	21	17	82	25-150		09/08/2022 12:51
13C2 PFDoA	21	18	85	25-150		09/08/2022 12:51
13C2 PFTeDA	21	15	71	25-150		09/08/2022 12:51
13C3 HFPO-DA	21	19	92	25-150		09/08/2022 12:51
d7-N-MeFOSE	21	2.7	13	10-150		09/08/2022 12:51
d9-N-EtFOSE	21	1.8	8	10-150	R	09/08/2022 12:51
d3-N-MeFOSA	21	0.059	0	10-150	R	09/08/2022 12:51
d5-N-EtFOSA	21	0.040	0	10-150	R	09/08/2022 12:51

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID 200016-PZ-119
 Lab Sample ID 40249783001
 Lab File ID B220908A_014
 Matrix Non_Potable_Water
 Collected 08/11/2022 09:52
 Received 08/13/2022 11:55
 Extraction Date 08/31/2022 12:48

Total Amount Extracted 236mL
 Ical ID 220831A02
 CCal File B220908A_013
 Ending CCal File B220908A_024
 Blank File B220916B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.82	5.85	13		09/08/2022 12:51
13C4 PFOA	N/A	N/A	7.05	7.12	18		09/08/2022 12:51
13C2 PFDA	N/A	N/A	8.38	8.47	13		09/08/2022 12:51
13C4 PFOS	N/A	N/A	8.88	8.93	16		09/08/2022 12:51

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.36	4.26	28		09/08/2022 12:51
13C5 PFPeA	N/A	N/A	5.19	5.16	20		09/08/2022 12:51
13C3 PFBS	N/A	N/A	6.08	6.09	75		09/08/2022 12:51
13C2 4:2FTS	N/A	N/A	5.57	5.57	19		09/08/2022 12:51
13C5 PFHxA	N/A	N/A	5.82	5.85	11		09/08/2022 12:51
13C4 PFHpA	N/A	N/A	6.43	6.49	16		09/08/2022 12:51
13C3 PFHxS	N/A	N/A	7.49	7.55	17		09/08/2022 12:51
13C2 6:2FTS	N/A	N/A	6.72	6.79	54		09/08/2022 12:51
13C8 PFOA	N/A	N/A	7.05	7.12	17		09/08/2022 12:51
13C9 PFNA	N/A	N/A	7.70	7.80	19		09/08/2022 12:51
13C8 PFOS	N/A	N/A	8.88	8.93	16		09/08/2022 12:51
13C2 8:2FTS	N/A	N/A	7.99	8.09	93		09/08/2022 12:51
13C6 PFDA	N/A	N/A	8.38	8.47	12		09/08/2022 12:51
d3-MeFOSAA	N/A	N/A	8.23	8.33	16		09/08/2022 12:51
13C8 PFOSA	N/A	N/A	10.63	10.34	31		09/08/2022 12:51
d5-EtFOSAA	N/A	N/A	8.52	8.61	92		09/08/2022 12:51
13C7 PFUdA	N/A	N/A	9.04	9.12	20		09/08/2022 12:51
13C2 PFDoA	N/A	N/A	9.71	9.77	11		09/08/2022 12:51
13C2 PFTeDA	N/A	N/A	11.02	11.06	14		09/08/2022 12:51
13C3 HFPO-DA	N/A	N/A	6.07	6.11	17		09/08/2022 12:51
d7-N-MeFOSE	N/A	N/A	12.50	12.48	52		09/08/2022 12:51
d9-N-EtFOSE	N/A	N/A	12.97	12.95	27	R	09/08/2022 12:51
d3-N-MeFOSA	N/A	N/A	12.71	12.69	42	R	09/08/2022 12:51
d5-N-EtFOSA	N/A	N/A	13.14	13.11	36	R	09/08/2022 12:51

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	200016-PZ-119	Total Amount Extracted	236mL
Lab Sample ID	40249783001	Ical ID	220831A02
Lab File ID	B220908A_014	CCal File	B220908A_013
Matrix	Non_Potable_Water	Ending CCal File	B220908A_024
Collected	08/11/2022 09:52	Blank File	B220916B_004
Received	08/13/2022 11:55		
Extraction Date	08/31/2022 12:48		

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.37	4.27	17		09/08/2022 12:51
PFPeA	N/A	N/A	5.20	5.16	12		09/08/2022 12:51
HFPO-DA	0.46	0.28	6.09	6.12	ND		09/08/2022 12:51
PFBS	0.46	0.46	6.09	6.10	18		09/08/2022 12:51
PFHxA	0.08	0.07	5.83	5.86	13		09/08/2022 12:51
4:2 FTS	0.00	0.80	0.00	5.58	ND		09/08/2022 12:51
PFPeS	0.44	0.42	6.80	6.83	ND		09/08/2022 12:51
PFHpA	0.30	0.31	6.44	6.49	20	J	09/08/2022 12:51
DONA	0.00	0.57	0.00	6.72	ND		09/08/2022 12:51
PFHxS	0.34	0.36	7.49	7.55	40		09/08/2022 12:51
PFOA	0.44	0.39	7.06	7.13	12		09/08/2022 12:51
6:2 FTS	0.81	0.91	6.73	6.79	35		09/08/2022 12:51
PFHpS	0.39	0.40	8.21	8.27	ND		09/08/2022 12:51
PFNA	0.14	0.15	7.70	7.80	ND		09/08/2022 12:51
PFOSAm	N/A	N/A	10.63	10.63	ND		09/08/2022 12:51
PFOS	0.33	0.36	8.86	8.94	44		09/08/2022 12:51
MeFOSA	0.00	0.55	0.00	12.71	ND		09/08/2022 12:51
PFDA	0.14	0.18	8.39	8.48	ND		09/08/2022 12:51
EtFOSAm	0.00	0.55	0.00	13.13	ND		09/08/2022 12:51
8:2 FTS	0.83	0.97	7.98	8.09	ND		09/08/2022 12:51
9-CI-PF3ON	0.00	0.05	0.00	9.42	ND		09/08/2022 12:51
PFNS	0.00	0.48	0.00	9.60	ND		09/08/2022 12:51
PFUnDA	0.24	0.12	9.05	9.12	ND		09/08/2022 12:51
NMeFOSAA	1.40	0.82	8.24	8.34	ND		09/08/2022 12:51
NEtFOSAA	0.00	0.64	0.00	8.62	ND		09/08/2022 12:51
PFDS	0.00	0.30	0.00	10.25	ND		09/08/2022 12:51
PFDOA	0.00	0.18	0.00	9.78	ND		09/08/2022 12:51
MeFOSE	N/A	N/A	0.00	12.53	ND		09/08/2022 12:51
EtFOSE	0.00	0.00	0.00	12.99	ND		09/08/2022 12:51
11-CI-PF3OUdS	0.00	0.02	0.00	10.71	ND		09/08/2022 12:51
PFTTrDA	0.00	0.15	0.00	10.43	ND		09/08/2022 12:51
PFDoS	0.00	0.45	0.00	11.46	ND		09/08/2022 12:51
PFTDA	0.00	0.22	0.00	11.06	ND		09/08/2022 12:51

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID 200016-MW-116
 Lab Sample ID 40249783002
 Lab File ID B220908A_015
 Matrix Non_Potable_Water
 Collected 08/11/2022 11:00
 Received 08/13/2022 11:55
 Extraction Date 08/31/2022 12:48

Total Amount Extracted 247mL
 Ical ID 220831A02
 CCal File B220908A_013
 Ending CCal File B220908A_024
 Blank File B220916B_004

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	6.9	2.0	0.50	0.50	1	375-22-4		09/08/2022 13:11
PFPeA	1.6 J	2.0	0.83	0.83	1	2706-90-3		09/08/2022 13:11
HFPO-DA	ND	2.0	0.50	0.50	1	13252-13-6		09/08/2022 13:11
PFBS	9.6	1.8	0.49	0.49	1	375-73-5		09/08/2022 13:11
PFHxA	1.7 J	2.0	0.92	0.92	1	307-24-4		09/08/2022 13:11
4:2 FTS	ND	1.9	0.47	0.47	1	757124-72-4		09/08/2022 13:11
PFPeS	ND	1.9	0.61	0.61	1	2706-91-4		09/08/2022 13:11
PFHpA	ND	2.0	0.70	0.70	1	375-85-9		09/08/2022 13:11
DONA	ND	1.9	0.93	0.93	1	919005-14-4		09/08/2022 13:11
PFHxS	ND	1.8	0.54	0.54	1	355-46-4		09/08/2022 13:11
PFOA	1.4 J	2.0	0.87	0.87	1	335-67-1		09/08/2022 13:11
6:2 FTS	2.1	1.9	0.68	0.68	1	27619-97-2		09/08/2022 13:11
PFHpS	ND	1.9	0.68	0.68	1	375-92-8		09/08/2022 13:11
PFNA	ND	2.0	0.80	0.80	1	375-95-1		09/08/2022 13:11
PFOSAm	ND	2.0	0.73	0.73	1	754-91-6		09/08/2022 13:11
PFOS	3.9	1.9	0.68	0.68	1	1763-23-1		09/08/2022 13:11
MeFOSA	ND	2.0	0.56	0.56	1	31506-32-8		09/08/2022 13:11
PFDA	0.69 J	2.0	0.62	0.62	1	335-76-2		09/08/2022 13:11
EtFOSAm	ND	2.0	0.58	0.58	1	4151-50-2		09/08/2022 13:11
8:2 FTS	ND	1.9	0.51	0.51	1	39108-34-4		09/08/2022 13:11
9-CI-PF3ON	ND	1.9	0.48	0.48	1	756426-58-1		09/08/2022 13:11
PFNS	ND	1.9	0.59	0.59	1	68259-12-1		09/08/2022 13:11
PFUnDA	ND	2.0	0.49	0.49	1	2058-94-8		09/08/2022 13:11
NMeFOSAA	ND	2.0	0.70	0.70	1	2355-31-9		09/08/2022 13:11
NEtFOSAA	ND	2.0	0.83	0.83	1	2991-50-6		09/08/2022 13:11
PFDS	ND	2.0	0.65	0.65	1	335-77-3		09/08/2022 13:11
PFDOA	ND	2.0	0.49	0.49	1	307-55-1		09/08/2022 13:11
MeFOSE	ND	2.0	0.53	0.53	1	24448-09-7		09/08/2022 13:11
EtFOSE	ND	2.0	0.90	0.90	1	1691-99-2		09/08/2022 13:11
11-CI-PF3OUdS	ND	1.9	0.56	0.56	1	763051-92-9		09/08/2022 13:11
PFTTrDA	ND	2.0	0.63	0.63	1	72629-94-8		09/08/2022 13:11
PFDoS	ND	2.0	0.60	0.60	1	79780-39-5		09/08/2022 13:11
PFTDA	ND	2.0	0.61	0.61	1	376-06-7		09/08/2022 13:11

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID 200016-MW-116
 Lab Sample ID 40249783002
 Lab File ID B220908A_015
 Matrix Non_Potable_Water
 Collected 08/11/2022 11:00
 Received 08/13/2022 11:55
 Extraction Date 08/31/2022 12:48

Total Amount Extracted 247mL
 Ical ID 220831A02
 CCal File B220908A_013
 Ending CCal File B220908A_024
 Blank File B220916B_004

Injection Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	20	22	107	50-150		09/08/2022 13:11
13C4 PFOA	20	20	100	50-150		09/08/2022 13:11
13C2 PFDA	20	25	124	50-150		09/08/2022 13:11
13C4 PFOS	19	23	118	50-150		09/08/2022 13:11

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	20	21	101	25-150		09/08/2022 13:11
13C5 PFPeA	20	20	100	25-150		09/08/2022 13:11
13C3 PFBS	19	20	105	25-150		09/08/2022 13:11
13C2 4:2FTS	19	28	146	25-150		09/08/2022 13:11
13C5 PFHxA	20	21	101	25-150		09/08/2022 13:11
13C4 PFHpA	20	22	110	25-150		09/08/2022 13:11
13C3 PFHxS	19	19	98	25-150		09/08/2022 13:11
13C2 6:2FTS	19	21	107	25-150		09/08/2022 13:11
13C8 PFOA	20	20	100	25-150		09/08/2022 13:11
13C9 PFNA	20	21	103	25-150		09/08/2022 13:11
13C8 PFOS	19	20	105	25-150		09/08/2022 13:11
13C2 8:2FTS	19	18	94	25-150		09/08/2022 13:11
13C6 PFDA	20	20	101	25-150		09/08/2022 13:11
d3-MeFOSAA	20	18	90	25-150		09/08/2022 13:11
13C8 PFOSA	20	6.3	31	25-150		09/08/2022 13:11
d5-EtFOSAA	20	18	89	25-150		09/08/2022 13:11
13C7 PFUdA	20	18	90	25-150		09/08/2022 13:11
13C2 PFDoA	20	18	90	25-150		09/08/2022 13:11
13C2 PFTeDA	20	16	77	25-150		09/08/2022 13:11
13C3 HFPO-DA	20	19	93	25-150		09/08/2022 13:11
d7-N-MeFOSE	20	1.3	6	10-150	R	09/08/2022 13:11
d9-N-EtFOSE	20	0.84	4	10-150	R	09/08/2022 13:11
d3-N-MeFOSA	20	0.027	0	10-150	R	09/08/2022 13:11
d5-N-EtFOSA	20	0.021	0	10-150	R	09/08/2022 13:11

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID 200016-MW-116
 Lab Sample ID 40249783002
 Lab File ID B220908A_015
 Matrix Non_Potable_Water
 Collected 08/11/2022 11:00
 Received 08/13/2022 11:55
 Extraction Date 08/31/2022 12:48

Total Amount Extracted 247mL
 Ical ID 220831A02
 CCal File B220908A_013
 Ending CCal File B220908A_024
 Blank File B220916B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.83	5.85	17		09/08/2022 13:11
13C4 PFOA	N/A	N/A	7.05	7.12	20		09/08/2022 13:11
13C2 PFDA	N/A	N/A	8.37	8.47	16		09/08/2022 13:11
13C4 PFOS	N/A	N/A	8.88	8.93	16		09/08/2022 13:11

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.37	4.26	26		09/08/2022 13:11
13C5 PFPeA	N/A	N/A	5.20	5.16	21		09/08/2022 13:11
13C3 PFBS	N/A	N/A	6.08	6.09	92		09/08/2022 13:11
13C2 4:2FTS	N/A	N/A	5.57	5.57	25		09/08/2022 13:11
13C5 PFHxA	N/A	N/A	5.83	5.85	12		09/08/2022 13:11
13C4 PFHpA	N/A	N/A	6.43	6.49	15		09/08/2022 13:11
13C3 PFHxS	N/A	N/A	7.49	7.55	22		09/08/2022 13:11
13C2 6:2FTS	N/A	N/A	6.73	6.79	50		09/08/2022 13:11
13C8 PFOA	N/A	N/A	7.05	7.12	22		09/08/2022 13:11
13C9 PFNA	N/A	N/A	7.69	7.80	21		09/08/2022 13:11
13C8 PFOS	N/A	N/A	8.88	8.93	18		09/08/2022 13:11
13C2 8:2FTS	N/A	N/A	7.97	8.09	84		09/08/2022 13:11
13C6 PFDA	N/A	N/A	8.38	8.47	14		09/08/2022 13:11
d3-MeFOSAA	N/A	N/A	8.23	8.33	14		09/08/2022 13:11
13C8 PFOSA	N/A	N/A	10.64	10.34	21		09/08/2022 13:11
d5-EtFOSAA	N/A	N/A	8.52	8.61	90		09/08/2022 13:11
13C7 PFUdA	N/A	N/A	9.05	9.12	15		09/08/2022 13:11
13C2 PFDoA	N/A	N/A	9.71	9.77	12		09/08/2022 13:11
13C2 PFTeDA	N/A	N/A	11.02	11.06	16		09/08/2022 13:11
13C3 HFPO-DA	N/A	N/A	6.08	6.11	16		09/08/2022 13:11
d7-N-MeFOSE	N/A	N/A	12.50	12.48	57	R	09/08/2022 13:11
d9-N-EtFOSE	N/A	N/A	12.97	12.95	15	R	09/08/2022 13:11
d3-N-MeFOSA	N/A	N/A	12.71	12.69	46	R	09/08/2022 13:11
d5-N-EtFOSA	N/A	N/A	13.13	13.11	20	R	09/08/2022 13:11

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	200016-MW-116	Total Amount Extracted	247mL
Lab Sample ID	40249783002	Ical ID	220831A02
Lab File ID	B220908A_015	CCal File	B220908A_013
Matrix	Non_Potable_Water	Ending CCal File	B220908A_024
Collected	08/11/2022 11:00	Blank File	B220916B_004
Received	08/13/2022 11:55		
Extraction Date	08/31/2022 12:48		

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.37	4.27	22		09/08/2022 13:11
PFPeA	N/A	N/A	5.20	5.16	13	J	09/08/2022 13:11
HFPO-DA	0.00	0.28	0.00	6.12	ND		09/08/2022 13:11
PFBS	0.40	0.46	6.09	6.10	46		09/08/2022 13:11
PFHxA	0.07	0.07	5.84	5.86	86	J	09/08/2022 13:11
4:2 FTS	0.00	0.80	0.00	5.58	ND		09/08/2022 13:11
PFPeS	0.47	0.42	6.80	6.83	ND		09/08/2022 13:11
PFHpA	0.35	0.31	6.44	6.49	ND		09/08/2022 13:11
DONA	0.56	0.57	6.67	6.72	ND		09/08/2022 13:11
PFHxS	0.33	0.36	7.49	7.55	ND		09/08/2022 13:11
PFOA	0.38	0.39	7.06	7.13	82	J	09/08/2022 13:11
6:2 FTS	0.87	0.91	6.73	6.79	36		09/08/2022 13:11
PFHpS	0.39	0.40	8.19	8.27	ND		09/08/2022 13:11
PFNA	0.16	0.15	7.70	7.80	ND		09/08/2022 13:11
PFOSAm	N/A	N/A	10.65	10.65	ND		09/08/2022 13:11
PFOS	0.29	0.36	8.88	8.94	60		09/08/2022 13:11
MeFOSA	0.00	0.55	0.00	12.71	ND		09/08/2022 13:11
PFDA	0.22	0.18	8.38	8.48	11	J	09/08/2022 13:11
EtFOSAm	0.00	0.55	0.00	13.13	ND		09/08/2022 13:11
8:2 FTS	0.78	0.97	7.98	8.09	ND		09/08/2022 13:11
9-CI-PF3ON	0.00	0.05	0.00	9.42	ND		09/08/2022 13:11
PFNS	0.00	0.48	0.00	9.60	ND		09/08/2022 13:11
PFUnDA	0.12	0.12	9.05	9.12	ND		09/08/2022 13:11
NMeFOSAA	0.00	0.82	8.26	8.34	ND		09/08/2022 13:11
NEtFOSAA	0.00	0.64	0.00	8.62	ND		09/08/2022 13:11
PFDS	0.00	0.30	0.00	10.25	ND		09/08/2022 13:11
PFDOA	0.21	0.18	9.72	9.78	ND		09/08/2022 13:11
MeFOSE	N/A	N/A	0.00	12.53	ND		09/08/2022 13:11
EtFOSE	0.00	0.00	0.00	12.99	ND		09/08/2022 13:11
11-CI-PF3OUdS	0.00	0.02	0.00	10.71	ND		09/08/2022 13:11
PFTTrDA	0.00	0.15	0.00	10.43	ND		09/08/2022 13:11
PFDoS	0.00	0.45	0.00	11.46	ND		09/08/2022 13:11
PFTDA	0.00	0.22	0.00	11.06	ND		09/08/2022 13:11

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID 200016-MW-105
 Lab Sample ID 40249783003
 Lab File ID B220908A_016
 Matrix Non_Potable_Water
 Collected 08/11/2022 12:28
 Received 08/13/2022 11:55
 Extraction Date 08/31/2022 12:48

Total Amount Extracted 249mL
 Ical ID 220831A02
 CCal File B220908A_013
 Ending CCal File B220908A_024
 Blank File B220916B_004

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	6.1	2.0	0.50	0.50	1	375-22-4		09/08/2022 13:31
PFPeA	7.3	2.0	0.82	0.82	1	2706-90-3		09/08/2022 13:31
HFPO-DA	ND	2.0	0.49	0.49	1	13252-13-6		09/08/2022 13:31
PFBS	9.3	1.8	0.49	0.49	1	375-73-5		09/08/2022 13:31
PFHxA	6.2	2.0	0.91	0.91	1	307-24-4		09/08/2022 13:31
4:2 FTS	ND	1.9	0.47	0.47	1	757124-72-4		09/08/2022 13:31
PFPeS	ND	1.9	0.60	0.60	1	2706-91-4		09/08/2022 13:31
PFHpA	1.8 J	2.0	0.69	0.69	1	375-85-9		09/08/2022 13:31
DONA	ND	1.9	0.92	0.92	1	919005-14-4		09/08/2022 13:31
PFHxS	0.89 J	1.8	0.53	0.53	1	355-46-4		09/08/2022 13:31
PFOA	3.8	2.0	0.86	0.86	1	335-67-1		09/08/2022 13:31
6:2 FTS	0.97 J	1.9	0.68	0.68	1	27619-97-2		09/08/2022 13:31
PFHpS	ND	1.9	0.67	0.67	1	375-92-8		09/08/2022 13:31
PFNA	ND	2.0	0.80	0.80	1	375-95-1		09/08/2022 13:31
PFOSAm	ND	2.0	0.72	0.72	1	754-91-6		09/08/2022 13:31
PFOS	1.5 J	1.9	0.67	0.67	1	1763-23-1		09/08/2022 13:31
MeFOSA	ND	2.0	0.55	0.55	1	31506-32-8		09/08/2022 13:31
PFDA	ND	2.0	0.61	0.61	1	335-76-2		09/08/2022 13:31
EtFOSAm	ND	2.0	0.58	0.58	1	4151-50-2		09/08/2022 13:31
8:2 FTS	ND	1.9	0.51	0.51	1	39108-34-4		09/08/2022 13:31
9-CI-PF3ON	ND	1.9	0.47	0.47	1	756426-58-1		09/08/2022 13:31
PFNS	ND	1.9	0.59	0.59	1	68259-12-1		09/08/2022 13:31
PFUnDA	ND	2.0	0.49	0.49	1	2058-94-8		09/08/2022 13:31
NMeFOSAA	ND	2.0	0.70	0.70	1	2355-31-9		09/08/2022 13:31
NEtFOSAA	ND	2.0	0.82	0.82	1	2991-50-6		09/08/2022 13:31
PFDS	ND	1.9	0.64	0.64	1	335-77-3		09/08/2022 13:31
PFDOA	ND	2.0	0.48	0.48	1	307-55-1		09/08/2022 13:31
MeFOSE	ND	2.0	0.52	0.52	1	24448-09-7		09/08/2022 13:31
EtFOSE	ND	2.0	0.89	0.89	1	1691-99-2		09/08/2022 13:31
11-CI-PF3OUdS	ND	1.9	0.56	0.56	1	763051-92-9		09/08/2022 13:31
PFTTrDA	ND	2.0	0.62	0.62	1	72629-94-8		09/08/2022 13:31
PFDoS	ND	1.9	0.59	0.59	1	79780-39-5		09/08/2022 13:31
PFTDA	ND	2.0	0.60	0.60	1	376-06-7		09/08/2022 13:31

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID 200016-MW-105
 Lab Sample ID 40249783003
 Lab File ID B220908A_016
 Matrix Non_Potable_Water
 Collected 08/11/2022 12:28
 Received 08/13/2022 11:55
 Extraction Date 08/31/2022 12:48

Total Amount Extracted 249mL
 Ical ID 220831A02
 CCal File B220908A_013
 Ending CCal File B220908A_024
 Blank File B220916B_004

Injection Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	20	21	103	50-150		09/08/2022 13:31
13C4 PFOA	20	23	114	50-150		09/08/2022 13:31
13C2 PFDA	20	28	140	50-150		09/08/2022 13:31
13C4 PFOS	19	22	116	50-150		09/08/2022 13:31

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	20	17	84	25-150		09/08/2022 13:31
13C5 PFPeA	20	18	90	25-150		09/08/2022 13:31
13C3 PFBS	19	20	105	25-150		09/08/2022 13:31
13C2 4:2FTS	19	42	224	25-150	R	09/08/2022 13:31
13C5 PFHxA	20	21	103	25-150		09/08/2022 13:31
13C4 PFHpA	20	22	110	25-150		09/08/2022 13:31
13C3 PFHxS	19	19	101	25-150		09/08/2022 13:31
13C2 6:2FTS	19	28	148	25-150		09/08/2022 13:31
13C8 PFOA	20	21	105	25-150		09/08/2022 13:31
13C9 PFNA	20	23	114	25-150		09/08/2022 13:31
13C8 PFOS	19	20	104	25-150		09/08/2022 13:31
13C2 8:2FTS	19	24	123	25-150		09/08/2022 13:31
13C6 PFDA	20	21	105	25-150		09/08/2022 13:31
d3-MeFOSAA	20	16	77	25-150		09/08/2022 13:31
13C8 PFOSA	20	7.6	38	25-150		09/08/2022 13:31
d5-EtFOSAA	20	15	76	25-150		09/08/2022 13:31
13C7 PFUdA	20	21	104	25-150		09/08/2022 13:31
13C2 PFDaA	20	17	82	25-150		09/08/2022 13:31
13C2 PFTeDA	20	13	66	25-150		09/08/2022 13:31
13C3 HFPO-DA	20	19	93	25-150		09/08/2022 13:31
d7-N-MeFOSE	20	1.4	7	10-150	R	09/08/2022 13:31
d9-N-EtFOSE	20	0.79	4	10-150	R	09/08/2022 13:31
d3-N-MeFOSA	20	0.038	0	10-150	R	09/08/2022 13:31
d5-N-EtFOSA	20	0.025	0	10-150	R	09/08/2022 13:31

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID 200016-MW-105
 Lab Sample ID 40249783003
 Lab File ID B220908A_016
 Matrix Non_Potable_Water
 Collected 08/11/2022 12:28
 Received 08/13/2022 11:55
 Extraction Date 08/31/2022 12:48

Total Amount Extracted 249mL
 Ical ID 220831A02
 CCal File B220908A_013
 Ending CCal File B220908A_024
 Blank File B220916B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.82	5.85	14		09/08/2022 13:31
13C4 PFOA	N/A	N/A	7.05	7.12	20		09/08/2022 13:31
13C2 PFDA	N/A	N/A	8.38	8.47	14		09/08/2022 13:31
13C4 PFOS	N/A	N/A	8.88	8.93	97		09/08/2022 13:31

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.36	4.26	22		09/08/2022 13:31
13C5 PFPeA	N/A	N/A	5.20	5.16	13		09/08/2022 13:31
13C3 PFBS	N/A	N/A	6.08	6.09	46		09/08/2022 13:31
13C2 4:2FTS	N/A	N/A	5.57	5.57	17	R	09/08/2022 13:31
13C5 PFHxA	N/A	N/A	5.83	5.85	10		09/08/2022 13:31
13C4 PFHpA	N/A	N/A	6.43	6.49	13		09/08/2022 13:31
13C3 PFHxS	N/A	N/A	7.49	7.55	94		09/08/2022 13:31
13C2 6:2FTS	N/A	N/A	6.72	6.79	29		09/08/2022 13:31
13C8 PFOA	N/A	N/A	7.05	7.12	19		09/08/2022 13:31
13C9 PFNA	N/A	N/A	7.70	7.80	21		09/08/2022 13:31
13C8 PFOS	N/A	N/A	8.88	8.93	10		09/08/2022 13:31
13C2 8:2FTS	N/A	N/A	7.98	8.09	56		09/08/2022 13:31
13C6 PFDA	N/A	N/A	8.38	8.47	12		09/08/2022 13:31
d3-MeFOSAA	N/A	N/A	8.23	8.33	11		09/08/2022 13:31
13C8 PFOSA	N/A	N/A	10.64	10.34	26		09/08/2022 13:31
d5-EtFOSAA	N/A	N/A	8.52	8.61	11		09/08/2022 13:31
13C7 PFUdA	N/A	N/A	9.05	9.12	20		09/08/2022 13:31
13C2 PFDoA	N/A	N/A	9.71	9.77	89		09/08/2022 13:31
13C2 PFTeDA	N/A	N/A	11.02	11.06	15		09/08/2022 13:31
13C3 HFPO-DA	N/A	N/A	6.08	6.11	11		09/08/2022 13:31
d7-N-MeFOSE	N/A	N/A	12.50	12.48	60	R	09/08/2022 13:31
d9-N-EtFOSE	N/A	N/A	12.97	12.95	11	R	09/08/2022 13:31
d3-N-MeFOSA	N/A	N/A	12.71	12.69	52	R	09/08/2022 13:31
d5-N-EtFOSA	N/A	N/A	13.13	13.11	21	R	09/08/2022 13:31

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	200016-MW-105	Total Amount Extracted	249mL
Lab Sample ID	40249783003	Ical ID	220831A02
Lab File ID	B220908A_016	CCal File	B220908A_013
Matrix	Non_Potable_Water	Ending CCal File	B220908A_024
Collected	08/11/2022 12:28	Blank File	B220916B_004
Received	08/13/2022 11:55		
Extraction Date	08/31/2022 12:48		

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.37	4.37	11		09/08/2022 13:31
PFPeA	N/A	N/A	5.20	5.16	86		09/08/2022 13:31
HFPO-DA	0.44	0.28	6.09	6.12	ND		09/08/2022 13:31
PFBS	0.45	0.46	6.09	6.10	18		09/08/2022 13:31
PFHxA	0.07	0.07	5.83	5.86	85		09/08/2022 13:31
4:2 FTS	0.00	0.80	0.00	5.58	ND		09/08/2022 13:31
PFPeS	0.37	0.42	6.79	6.83	ND		09/08/2022 13:31
PFHpA	0.32	0.31	6.44	6.49	28	J	09/08/2022 13:31
DONA	0.00	0.57	0.00	6.72	ND		09/08/2022 13:31
PFHxS	0.30	0.36	7.49	7.55	11	J	09/08/2022 13:31
PFOA	0.42	0.39	7.06	7.13	12		09/08/2022 13:31
6:2 FTS	0.82	0.91	6.73	6.79	26	J	09/08/2022 13:31
PFHpS	0.00	0.40	0.00	8.27	ND		09/08/2022 13:31
PFNA	0.13	0.15	7.70	7.80	ND		09/08/2022 13:31
PFOSAm	N/A	N/A	10.65	10.65	ND		09/08/2022 13:31
PFOS	0.35	0.36	8.89	8.94	32	J	09/08/2022 13:31
MeFOSA	0.00	0.55	0.00	12.71	ND		09/08/2022 13:31
PFDA	0.23	0.18	8.39	8.48	ND		09/08/2022 13:31
EtFOSAm	0.00	0.55	0.00	13.13	ND		09/08/2022 13:31
8:2 FTS	1.10	0.97	7.99	8.09	ND		09/08/2022 13:31
9-CI-PF3ON	0.00	0.05	0.00	9.42	ND		09/08/2022 13:31
PFNS	0.00	0.48	0.00	9.60	ND		09/08/2022 13:31
PFUnDA	0.13	0.12	9.06	9.12	ND		09/08/2022 13:31
NMeFOSAA	0.44	0.82	8.24	8.34	ND		09/08/2022 13:31
NEtFOSAA	0.00	0.64	0.00	8.62	ND		09/08/2022 13:31
PFDS	0.00	0.30	0.00	10.25	ND		09/08/2022 13:31
PFDOA	0.14	0.18	9.72	9.78	ND		09/08/2022 13:31
MeFOSE	N/A	N/A	0.00	12.53	ND		09/08/2022 13:31
EtFOSE	0.00	0.00	0.00	12.99	ND		09/08/2022 13:31
11-CI-PF3OUdS	0.00	0.02	0.00	10.71	ND		09/08/2022 13:31
PFTTrDA	0.00	0.15	0.00	10.43	ND		09/08/2022 13:31
PFDoS	0.00	0.45	0.00	11.46	ND		09/08/2022 13:31
PFTDA	0.00	0.22	0.00	11.06	ND		09/08/2022 13:31

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID 200016-PZ-104
 Lab Sample ID 40249783004
 Lab File ID B220908A_017
 Matrix Non_Potable_Water
 Collected 08/11/2022 13:15
 Received 08/13/2022 11:55
 Extraction Date 08/31/2022 12:48

Total Amount Extracted 254mL
 Ical ID 220831A02
 CCal File B220908A_013
 Ending CCal File B220908A_024
 Blank File B220916B_004

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	7.2	2.0	0.49	0.49	1	375-22-4		09/08/2022 13:51
PFPeA	4.4	2.0	0.81	0.81	1	2706-90-3		09/08/2022 13:51
HFPO-DA	ND	2.0	0.49	0.49	1	13252-13-6		09/08/2022 13:51
PFBS	2.1	1.7	0.48	0.48	1	375-73-5		09/08/2022 13:51
PFHxA	4.8	2.0	0.90	0.90	1	307-24-4		09/08/2022 13:51
4:2 FTS	ND	1.8	0.46	0.46	1	757124-72-4		09/08/2022 13:51
PFPeS	0.60 J	1.9	0.59	0.59	1	2706-91-4		09/08/2022 13:51
PFHpA	3.3	2.0	0.68	0.68	1	375-85-9		09/08/2022 13:51
DONA	ND	1.9	0.90	0.90	1	919005-14-4		09/08/2022 13:51
PFHxS	1.2 J	1.8	0.52	0.52	1	355-46-4		09/08/2022 13:51
PFOA	9.7	2.0	0.85	0.85	1	335-67-1		09/08/2022 13:51
6:2 FTS	1.9 J	1.9	0.67	0.67	1	27619-97-2		09/08/2022 13:51
PFHpS	ND	1.9	0.66	0.66	1	375-92-8		09/08/2022 13:51
PFNA	ND	2.0	0.78	0.78	1	375-95-1		09/08/2022 13:51
PFOSAm	ND	2.0	0.71	0.71	1	754-91-6		09/08/2022 13:51
PFOS	ND	1.8	0.66	0.66	1	1763-23-1		09/08/2022 13:51
MeFOSA	ND	2.0	0.54	0.54	1	31506-32-8		09/08/2022 13:51
PFDA	ND	2.0	0.60	0.60	1	335-76-2		09/08/2022 13:51
EtFOSAm	ND	2.0	0.57	0.57	1	4151-50-2		09/08/2022 13:51
8:2 FTS	ND	1.9	0.50	0.50	1	39108-34-4		09/08/2022 13:51
9-CI-PF3ON	ND	1.8	0.46	0.46	1	756426-58-1		09/08/2022 13:51
PFNS	ND	1.9	0.58	0.58	1	68259-12-1		09/08/2022 13:51
PFUnDA	ND	2.0	0.48	0.48	1	2058-94-8		09/08/2022 13:51
NMeFOSAA	ND	2.0	0.68	0.68	1	2355-31-9		09/08/2022 13:51
NEtFOSAA	ND	2.0	0.80	0.80	1	2991-50-6		09/08/2022 13:51
PFDS	ND	1.9	0.63	0.63	1	335-77-3		09/08/2022 13:51
PFDOA	ND	2.0	0.47	0.47	1	307-55-1		09/08/2022 13:51
MeFOSE	ND	2.0	0.51	0.51	1	24448-09-7		09/08/2022 13:51
EtFOSE	ND	2.0	0.88	0.88	1	1691-99-2		09/08/2022 13:51
11-CI-PF3OUdS	ND	1.9	0.55	0.55	1	763051-92-9		09/08/2022 13:51
PFTTrDA	ND	2.0	0.61	0.61	1	72629-94-8		09/08/2022 13:51
PFDoS	ND	1.9	0.58	0.58	1	79780-39-5		09/08/2022 13:51
PFTDA	ND	2.0	0.59	0.59	1	376-06-7		09/08/2022 13:51

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID 200016-PZ-104
 Lab Sample ID 40249783004
 Lab File ID B220908A_017
 Matrix Non_Potable_Water
 Collected 08/11/2022 13:15
 Received 08/13/2022 11:55
 Extraction Date 08/31/2022 12:48

Total Amount Extracted 254mL
 Ical ID 220831A02
 CCal File B220908A_013
 Ending CCal File B220908A_024
 Blank File B220916B_004

Injection Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	20	19	94	50-150		09/08/2022 13:51
13C4 PFOA	20	18	93	50-150		09/08/2022 13:51
13C2 PFDA	20	21	104	50-150		09/08/2022 13:51
13C4 PFOS	19	17	92	50-150		09/08/2022 13:51

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	20	17	87	25-150		09/08/2022 13:51
13C5 PFPeA	20	18	90	25-150		09/08/2022 13:51
13C3 PFBS	18	16	87	25-150		09/08/2022 13:51
13C2 4:2FTS	18	22	121	25-150		09/08/2022 13:51
13C5 PFHxA	20	18	90	25-150		09/08/2022 13:51
13C4 PFHpA	20	17	87	25-150		09/08/2022 13:51
13C3 PFHxS	19	15	82	25-150		09/08/2022 13:51
13C2 6:2FTS	19	18	95	25-150		09/08/2022 13:51
13C8 PFOA	20	16	81	25-150		09/08/2022 13:51
13C9 PFNA	20	17	88	25-150		09/08/2022 13:51
13C8 PFOS	19	15	82	25-150		09/08/2022 13:51
13C2 8:2FTS	19	15	82	25-150		09/08/2022 13:51
13C6 PFDA	20	16	81	25-150		09/08/2022 13:51
d3-MeFOSAA	20	11	58	25-150		09/08/2022 13:51
13C8 PFOSA	20	2.2	11	25-150	R	09/08/2022 13:51
d5-EtFOSAA	20	11	56	25-150		09/08/2022 13:51
13C7 PFUdA	20	13	67	25-150		09/08/2022 13:51
13C2 PFDoA	20	12	62	25-150		09/08/2022 13:51
13C2 PFTeDA	20	11	56	25-150		09/08/2022 13:51
13C3 HFPO-DA	20	15	78	25-150		09/08/2022 13:51
d7-N-MeFOSE	20	0.31	2	10-150	R	09/08/2022 13:51
d9-N-EtFOSE	20	0.29	1	10-150	R	09/08/2022 13:51
d3-N-MeFOSA	20	0.0023	0	10-150	R	09/08/2022 13:51
d5-N-EtFOSA	20	0.00	0	10-150	R	09/08/2022 13:51

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID 200016-PZ-104
 Lab Sample ID 40249783004
 Lab File ID B220908A_017
 Matrix Non_Potable_Water
 Collected 08/11/2022 13:15
 Received 08/13/2022 11:55
 Extraction Date 08/31/2022 12:48

Total Amount Extracted 254mL
 Ical ID 220831A02
 CCal File B220908A_013
 Ending CCal File B220908A_024
 Blank File B220916B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.83	5.85	17		09/08/2022 13:51
13C4 PFOA	N/A	N/A	7.05	7.12	19		09/08/2022 13:51
13C2 PFDA	N/A	N/A	8.38	8.47	17		09/08/2022 13:51
13C4 PFOS	N/A	N/A	8.89	8.93	17		09/08/2022 13:51

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.37	4.26	26		09/08/2022 13:51
13C5 PFPeA	N/A	N/A	5.20	5.16	16		09/08/2022 13:51
13C3 PFBS	N/A	N/A	6.09	6.09	67		09/08/2022 13:51
13C2 4:2FTS	N/A	N/A	5.57	5.57	20		09/08/2022 13:51
13C5 PFHxA	N/A	N/A	5.83	5.85	12		09/08/2022 13:51
13C4 PFHpA	N/A	N/A	6.44	6.49	15		09/08/2022 13:51
13C3 PFHxS	N/A	N/A	7.49	7.55	16		09/08/2022 13:51
13C2 6:2FTS	N/A	N/A	6.73	6.79	41		09/08/2022 13:51
13C8 PFOA	N/A	N/A	7.05	7.12	21		09/08/2022 13:51
13C9 PFNA	N/A	N/A	7.70	7.80	16		09/08/2022 13:51
13C8 PFOS	N/A	N/A	8.89	8.93	15		09/08/2022 13:51
13C2 8:2FTS	N/A	N/A	7.98	8.09	10		09/08/2022 13:51
13C6 PFDA	N/A	N/A	8.38	8.47	15		09/08/2022 13:51
d3-MeFOSAA	N/A	N/A	8.23	8.33	98		09/08/2022 13:51
13C8 PFOSA	N/A	N/A	10.65	10.34	13	R	09/08/2022 13:51
d5-EtFOSAA	N/A	N/A	8.52	8.61	94		09/08/2022 13:51
13C7 PFUdA	N/A	N/A	9.05	9.12	13		09/08/2022 13:51
13C2 PFDoA	N/A	N/A	9.72	9.77	10		09/08/2022 13:51
13C2 PFTeDA	N/A	N/A	11.03	11.06	13		09/08/2022 13:51
13C3 HFPO-DA	N/A	N/A	6.08	6.11	12		09/08/2022 13:51
d7-N-MeFOSE	N/A	N/A	12.50	12.48	32	R	09/08/2022 13:51
d9-N-EtFOSE	N/A	N/A	12.97	12.95	74	R	09/08/2022 13:51
d3-N-MeFOSA	N/A	N/A	12.68	12.69	12	R	09/08/2022 13:51
d5-N-EtFOSA	N/A	N/A	0.00	13.11	ND	R	09/08/2022 13:51

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	200016-PZ-104	Total Amount Extracted	254mL
Lab Sample ID	40249783004	Ical ID	220831A02
Lab File ID	B220908A_017	CCal File	B220908A_013
Matrix	Non_Potable_Water	Ending CCal File	B220908A_024
Collected	08/11/2022 13:15	Blank File	B220916B_004
Received	08/13/2022 11:55		
Extraction Date	08/31/2022 12:48		

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.37	4.27	15		09/08/2022 13:51
PFPeA	N/A	N/A	5.21	5.16	15		09/08/2022 13:51
HFPO-DA	0.00	0.28	0.00	6.12	ND		09/08/2022 13:51
PFBS	0.42	0.46	6.09	6.10	14		09/08/2022 13:51
PFHxA	0.08	0.07	5.84	5.86	10		09/08/2022 13:51
4:2 FTS	0.00	0.80	0.00	5.58	ND		09/08/2022 13:51
PFPeS	0.43	0.42	6.80	6.83	10	J	09/08/2022 13:51
PFHpA	0.34	0.31	6.44	6.49	16		09/08/2022 13:51
DONA	0.00	0.57	0.00	6.72	ND		09/08/2022 13:51
PFHxS	0.30	0.36	7.50	7.55	24	J	09/08/2022 13:51
PFOA	0.45	0.39	7.06	7.13	16		09/08/2022 13:51
6:2 FTS	0.79	0.91	6.73	6.79	40	J	09/08/2022 13:51
PFHpS	0.00	0.40	0.00	8.27	ND		09/08/2022 13:51
PFNA	0.11	0.15	7.71	7.80	ND		09/08/2022 13:51
PFOSAm	N/A	N/A	0.00	10.35	ND		09/08/2022 13:51
PFOS	0.43	0.36	8.90	8.94	ND		09/08/2022 13:51
MeFOSA	0.00	0.55	0.00	12.71	ND		09/08/2022 13:51
PFDA	0.35	0.18	8.39	8.48	ND		09/08/2022 13:51
EtFOSAm	0.00	0.55	0.00	13.13	ND		09/08/2022 13:51
8:2 FTS	0.91	0.97	7.98	8.09	ND		09/08/2022 13:51
9-CI-PF3ON	0.00	0.05	0.00	9.42	ND		09/08/2022 13:51
PFNS	0.00	0.48	0.00	9.60	ND		09/08/2022 13:51
PFUnDA	0.00	0.12	0.00	9.12	ND		09/08/2022 13:51
NMeFOSAA	0.00	0.82	0.00	8.34	ND		09/08/2022 13:51
NEtFOSAA	0.00	0.64	0.00	8.62	ND		09/08/2022 13:51
PFDS	0.00	0.30	0.00	10.25	ND		09/08/2022 13:51
PFDOA	0.09	0.18	9.73	9.78	ND		09/08/2022 13:51
MeFOSE	N/A	N/A	0.00	12.53	ND		09/08/2022 13:51
EtFOSE	0.00	0.00	0.00	12.99	ND		09/08/2022 13:51
11-CI-PF3OUdS	0.00	0.02	0.00	10.71	ND		09/08/2022 13:51
PFTTrDA	0.00	0.15	0.00	10.43	ND		09/08/2022 13:51
PFDoS	0.00	0.45	0.00	11.46	ND		09/08/2022 13:51
PFTDA	0.00	0.22	0.00	11.06	ND		09/08/2022 13:51

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID 200016-DUP-1
 Lab Sample ID 40249783005
 Lab File ID B220908A_018
 Matrix Non_Potable_Water
 Collected 08/11/2022 12:00
 Received 08/13/2022 11:55
 Extraction Date 08/31/2022 12:48

Total Amount Extracted 244mL
 Ical ID 220831A02
 CCal File B220908A_013
 Ending CCal File B220908A_024
 Blank File B220916B_004

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	6.7	2.0	0.51	0.51	1	375-22-4		09/08/2022 14:11
PFPeA	1.7 J	2.0	0.84	0.84	1	2706-90-3		09/08/2022 14:11
HFPO-DA	ND	2.0	0.50	0.50	1	13252-13-6		09/08/2022 14:11
PFBS	9.4	1.8	0.50	0.50	1	375-73-5		09/08/2022 14:11
PFHxA	1.6 J	2.0	0.93	0.93	1	307-24-4		09/08/2022 14:11
4:2 FTS	ND	1.9	0.48	0.48	1	757124-72-4		09/08/2022 14:11
PFPeS	ND	1.9	0.62	0.62	1	2706-91-4		09/08/2022 14:11
PFHpA	ND	2.0	0.71	0.71	1	375-85-9		09/08/2022 14:11
DONA	ND	1.9	0.94	0.94	1	919005-14-4		09/08/2022 14:11
PFHxS	ND	1.9	0.54	0.54	1	355-46-4		09/08/2022 14:11
PFOA	1.5 J	2.0	0.88	0.88	1	335-67-1		09/08/2022 14:11
6:2 FTS	ND	1.9	0.69	0.69	1	27619-97-2		09/08/2022 14:11
PFHpS	ND	1.9	0.68	0.68	1	375-92-8		09/08/2022 14:11
PFNA	ND	2.0	0.81	0.81	1	375-95-1		09/08/2022 14:11
PFOSAm	ND	2.0	0.73	0.73	1	754-91-6		09/08/2022 14:11
PFOS	4.0	1.9	0.68	0.68	1	1763-23-1		09/08/2022 14:11
MeFOSA	ND	2.0	0.56	0.56	1	31506-32-8		09/08/2022 14:11
PFDA	0.66 J	2.0	0.62	0.62	1	335-76-2		09/08/2022 14:11
EtFOSAm	ND	2.0	0.59	0.59	1	4151-50-2		09/08/2022 14:11
8:2 FTS	ND	2.0	0.52	0.52	1	39108-34-4		09/08/2022 14:11
9-CI-PF3ON	ND	1.9	0.48	0.48	1	756426-58-1		09/08/2022 14:11
PFNS	ND	2.0	0.60	0.60	1	68259-12-1		09/08/2022 14:11
PFUnDA	ND	2.0	0.50	0.50	1	2058-94-8		09/08/2022 14:11
NMeFOSAA	ND	2.0	0.71	0.71	1	2355-31-9		09/08/2022 14:11
NEtFOSAA	ND	2.0	0.83	0.83	1	2991-50-6		09/08/2022 14:11
PFDS	ND	2.0	0.66	0.66	1	335-77-3		09/08/2022 14:11
PFDOA	ND	2.0	0.49	0.49	1	307-55-1		09/08/2022 14:11
MeFOSE	ND	2.0	0.53	0.53	1	24448-09-7		09/08/2022 14:11
EtFOSE	ND	2.0	0.91	0.91	1	1691-99-2		09/08/2022 14:11
11-CI-PF3OUdS	ND	1.9	0.57	0.57	1	763051-92-9		09/08/2022 14:11
PFTTrDA	ND	2.0	0.64	0.64	1	72629-94-8		09/08/2022 14:11
PFDoS	ND	2.0	0.60	0.60	1	79780-39-5		09/08/2022 14:11
PFTDA	ND	2.0	0.61	0.61	1	376-06-7		09/08/2022 14:11

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID 200016-DUP-1
 Lab Sample ID 40249783005
 Lab File ID B220908A_018
 Matrix Non_Potable_Water
 Collected 08/11/2022 12:00
 Received 08/13/2022 11:55
 Extraction Date 08/31/2022 12:48

Total Amount Extracted 244mL
 Ical ID 220831A02
 CCal File B220908A_013
 Ending CCal File B220908A_024
 Blank File B220916B_004

Injection Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	20	24	117	50-150		09/08/2022 14:11
13C4 PFOA	20	23	113	50-150		09/08/2022 14:11
13C2 PFDA	20	26	129	50-150		09/08/2022 14:11
13C4 PFOS	20	24	121	50-150		09/08/2022 14:11

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	20	23	114	25-150		09/08/2022 14:11
13C5 PFPeA	20	23	114	25-150		09/08/2022 14:11
13C3 PFBS	19	21	110	25-150		09/08/2022 14:11
13C2 4:2FTS	19	30	156	25-150	R	09/08/2022 14:11
13C5 PFHxA	20	24	118	25-150		09/08/2022 14:11
13C4 PFHpA	20	24	116	25-150		09/08/2022 14:11
13C3 PFHxS	19	21	107	25-150		09/08/2022 14:11
13C2 6:2FTS	19	24	123	25-150		09/08/2022 14:11
13C8 PFOA	20	23	112	25-150		09/08/2022 14:11
13C9 PFNA	20	25	120	25-150		09/08/2022 14:11
13C8 PFOS	20	22	113	25-150		09/08/2022 14:11
13C2 8:2FTS	20	20	101	25-150		09/08/2022 14:11
13C6 PFDA	20	22	106	25-150		09/08/2022 14:11
d3-MeFOSAA	20	17	84	25-150		09/08/2022 14:11
13C8 PFOSA	20	1.3	6	25-150	R	09/08/2022 14:11
d5-EtFOSAA	20	16	78	25-150		09/08/2022 14:11
13C7 PFUdA	20	18	89	25-150		09/08/2022 14:11
13C2 PFDoA	20	17	83	25-150		09/08/2022 14:11
13C2 PFTeDA	20	16	77	25-150		09/08/2022 14:11
13C3 HFPO-DA	20	21	101	25-150		09/08/2022 14:11
d7-N-MeFOSE	20	0.31	1	10-150	R	09/08/2022 14:11
d9-N-EtFOSE	20	0.38	2	10-150	R	09/08/2022 14:11
d3-N-MeFOSA	20	0.0081	0	10-150	R	09/08/2022 14:11
d5-N-EtFOSA	20	0.00	0	10-150	R	09/08/2022 14:11

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID 200016-DUP-1
 Lab Sample ID 40249783005
 Lab File ID B220908A_018
 Matrix Non_Potable_Water
 Collected 08/11/2022 12:00
 Received 08/13/2022 11:55
 Extraction Date 08/31/2022 12:48

Total Amount Extracted 244mL
 Ical ID 220831A02
 CCal File B220908A_013
 Ending CCal File B220908A_024
 Blank File B220916B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.83	5.85	16		09/08/2022 14:11
13C4 PFOA	N/A	N/A	7.05	7.12	19		09/08/2022 14:11
13C2 PFDA	N/A	N/A	8.38	8.47	15		09/08/2022 14:11
13C4 PFOS	N/A	N/A	8.88	8.93	18		09/08/2022 14:11

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.37	4.26	27		09/08/2022 14:11
13C5 PFPeA	N/A	N/A	5.20	5.16	25		09/08/2022 14:11
13C3 PFBS	N/A	N/A	6.08	6.09	80		09/08/2022 14:11
13C2 4:2FTS	N/A	N/A	5.57	5.57	26	R	09/08/2022 14:11
13C5 PFHxA	N/A	N/A	5.83	5.85	15		09/08/2022 14:11
13C4 PFHpA	N/A	N/A	6.44	6.49	14		09/08/2022 14:11
13C3 PFHxS	N/A	N/A	7.49	7.55	16		09/08/2022 14:11
13C2 6:2FTS	N/A	N/A	6.73	6.79	64		09/08/2022 14:11
13C8 PFOA	N/A	N/A	7.05	7.12	19		09/08/2022 14:11
13C9 PFNA	N/A	N/A	7.70	7.80	19		09/08/2022 14:11
13C8 PFOS	N/A	N/A	8.88	8.93	24		09/08/2022 14:11
13C2 8:2FTS	N/A	N/A	7.98	8.09	11		09/08/2022 14:11
13C6 PFDA	N/A	N/A	8.38	8.47	19		09/08/2022 14:11
d3-MeFOSAA	N/A	N/A	8.22	8.33	13		09/08/2022 14:11
13C8 PFOSA	N/A	N/A	10.64	10.34	38	R	09/08/2022 14:11
d5-EtFOSAA	N/A	N/A	8.52	8.61	10		09/08/2022 14:11
13C7 PFUdA	N/A	N/A	9.05	9.12	21		09/08/2022 14:11
13C2 PFDoA	N/A	N/A	9.72	9.77	10		09/08/2022 14:11
13C2 PFTeDA	N/A	N/A	11.03	11.06	13		09/08/2022 14:11
13C3 HFPO-DA	N/A	N/A	6.08	6.11	14		09/08/2022 14:11
d7-N-MeFOSE	N/A	N/A	12.50	12.48	35	R	09/08/2022 14:11
d9-N-EtFOSE	N/A	N/A	12.97	12.95	81	R	09/08/2022 14:11
d3-N-MeFOSA	N/A	N/A	12.73	12.69	42	R	09/08/2022 14:11
d5-N-EtFOSA	N/A	N/A	0.00	13.11	ND	R	09/08/2022 14:11

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	200016-DUP-1	Total Amount Extracted	244mL
Lab Sample ID	40249783005	Ical ID	220831A02
Lab File ID	B220908A_018	CCal File	B220908A_013
Matrix	Non_Potable_Water	Ending CCal File	B220908A_024
Collected	08/11/2022 12:00	Blank File	B220916B_004
Received	08/13/2022 11:55		
Extraction Date	08/31/2022 12:48		

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.37	4.27	22		09/08/2022 14:11
PFPeA	N/A	N/A	5.20	5.16	12	J	09/08/2022 14:11
HFPO-DA	0.43	0.28	6.09	6.12	ND		09/08/2022 14:11
PFBS	0.43	0.46	6.09	6.10	43		09/08/2022 14:11
PFHxA	0.08	0.07	5.84	5.86	83	J	09/08/2022 14:11
4:2 FTS	0.00	0.80	0.00	5.58	ND		09/08/2022 14:11
PFPeS	0.50	0.42	6.79	6.83	ND		09/08/2022 14:11
PFHpA	0.29	0.31	6.44	6.49	ND		09/08/2022 14:11
DONA	0.00	0.57	0.00	6.72	ND		09/08/2022 14:11
PFHxS	0.33	0.36	7.50	7.55	ND		09/08/2022 14:11
PFOA	0.36	0.39	7.06	7.13	90	J	09/08/2022 14:11
6:2 FTS	0.92	0.91	6.73	6.79	ND		09/08/2022 14:11
PFHpS	0.00	0.40	8.20	8.27	ND		09/08/2022 14:11
PFNA	0.13	0.15	7.70	7.80	ND		09/08/2022 14:11
PFOSAm	N/A	N/A	0.00	10.35	ND		09/08/2022 14:11
PFOS	0.30	0.36	8.88	8.94	55		09/08/2022 14:11
MeFOSA	0.00	0.55	0.00	12.71	ND		09/08/2022 14:11
PFDA	0.21	0.18	8.38	8.48	12	J	09/08/2022 14:11
EtFOSAm	0.00	0.55	0.00	13.13	ND		09/08/2022 14:11
8:2 FTS	0.00	0.97	7.98	8.09	ND		09/08/2022 14:11
9-CI-PF3ON	0.00	0.05	0.00	9.42	ND		09/08/2022 14:11
PFNS	0.00	0.48	0.00	9.60	ND		09/08/2022 14:11
PFUnDA	0.12	0.12	9.05	9.12	ND		09/08/2022 14:11
NMeFOSAA	0.00	0.82	0.00	8.34	ND		09/08/2022 14:11
NEtFOSAA	0.00	0.64	0.00	8.62	ND		09/08/2022 14:11
PFDS	0.00	0.30	0.00	10.25	ND		09/08/2022 14:11
PFDOA	0.21	0.18	9.72	9.78	ND		09/08/2022 14:11
MeFOSE	N/A	N/A	0.00	12.53	ND		09/08/2022 14:11
EtFOSE	0.00	0.00	0.00	12.99	ND		09/08/2022 14:11
11-CI-PF3OUdS	0.00	0.02	0.00	10.71	ND		09/08/2022 14:11
PFTTrDA	0.00	0.15	0.00	10.43	ND		09/08/2022 14:11
PFDoS	0.00	0.45	0.00	11.46	ND		09/08/2022 14:11
PFTDA	0.00	0.22	0.00	11.06	ND		09/08/2022 14:11

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID 200016-FB-1
 Lab Sample ID 40249783006
 Lab File ID B220908A_019
 Matrix Non_Potable_Water
 Collected 08/11/2022 12:05
 Received 08/13/2022 11:55
 Extraction Date 08/31/2022 12:48

Total Amount Extracted 255mL
 Ical ID 220831A02
 CCal File B220908A_013
 Ending CCal File B220908A_024
 Blank File B220916B_004

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	2.0	0.49	0.49	1	375-22-4		09/08/2022 14:31
PFPeA	ND	2.0	0.80	0.80	1	2706-90-3		09/08/2022 14:31
HFPO-DA	ND	2.0	0.48	0.48	1	13252-13-6		09/08/2022 14:31
PFBS	ND	1.7	0.47	0.47	1	375-73-5		09/08/2022 14:31
PFHxA	ND	2.0	0.89	0.89	1	307-24-4		09/08/2022 14:31
4:2 FTS	ND	1.8	0.46	0.46	1	757124-72-4		09/08/2022 14:31
PFPeS	ND	1.8	0.59	0.59	1	2706-91-4		09/08/2022 14:31
PFHpA	ND	2.0	0.67	0.67	1	375-85-9		09/08/2022 14:31
DONA	ND	1.9	0.90	0.90	1	919005-14-4		09/08/2022 14:31
PFHxS	ND	1.8	0.52	0.52	1	355-46-4		09/08/2022 14:31
PFOA	ND	2.0	0.84	0.84	1	335-67-1		09/08/2022 14:31
6:2 FTS	ND	1.9	0.66	0.66	1	27619-97-2		09/08/2022 14:31
PFHpS	ND	1.9	0.65	0.65	1	375-92-8		09/08/2022 14:31
PFNA	ND	2.0	0.78	0.78	1	375-95-1		09/08/2022 14:31
PFOSAm	ND	2.0	0.70	0.70	1	754-91-6		09/08/2022 14:31
PFOS	ND	1.8	0.65	0.65	1	1763-23-1		09/08/2022 14:31
MeFOSA	ND	2.0	0.54	0.54	1	31506-32-8		09/08/2022 14:31
PFDA	ND	2.0	0.60	0.60	1	335-76-2		09/08/2022 14:31
EtFOSAm	ND	2.0	0.56	0.56	1	4151-50-2		09/08/2022 14:31
8:2 FTS	ND	1.9	0.49	0.49	1	39108-34-4		09/08/2022 14:31
9-CI-PF3ON	ND	1.8	0.46	0.46	1	756426-58-1		09/08/2022 14:31
PFNS	ND	1.9	0.57	0.57	1	68259-12-1		09/08/2022 14:31
PFUnDA	ND	2.0	0.47	0.47	1	2058-94-8		09/08/2022 14:31
NMeFOSAA	ND	2.0	0.68	0.68	1	2355-31-9		09/08/2022 14:31
NEtFOSAA	ND	2.0	0.80	0.80	1	2991-50-6		09/08/2022 14:31
PFDS	ND	1.9	0.63	0.63	1	335-77-3		09/08/2022 14:31
PFDOA	ND	2.0	0.47	0.47	1	307-55-1		09/08/2022 14:31
MeFOSE	ND	2.0	0.51	0.51	1	24448-09-7		09/08/2022 14:31
EtFOSE	ND	2.0	0.87	0.87	1	1691-99-2		09/08/2022 14:31
11-CI-PF3OUdS	ND	1.8	0.54	0.54	1	763051-92-9		09/08/2022 14:31
PFTTrDA	ND	2.0	0.61	0.61	1	72629-94-8		09/08/2022 14:31
PFDoS	ND	1.9	0.58	0.58	1	79780-39-5		09/08/2022 14:31
PFTDA	ND	2.0	0.59	0.59	1	376-06-7		09/08/2022 14:31

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID 200016-FB-1
 Lab Sample ID 40249783006
 Lab File ID B220908A_019
 Matrix Non_Potable_Water
 Collected 08/11/2022 12:05
 Received 08/13/2022 11:55
 Extraction Date 08/31/2022 12:48

Total Amount Extracted 255mL
 Ical ID 220831A02
 CCal File B220908A_013
 Ending CCal File B220908A_024
 Blank File B220916B_004

Injection Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	20	21	108	50-150		09/08/2022 14:31
13C4 PFOA	20	21	106	50-150		09/08/2022 14:31
13C2 PFDA	20	23	119	50-150		09/08/2022 14:31
13C4 PFOS	19	20	109	50-150		09/08/2022 14:31

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	20	20	101	25-150		09/08/2022 14:31
13C5 PFPeA	20	19	98	25-150		09/08/2022 14:31
13C3 PFBS	18	18	97	25-150		09/08/2022 14:31
13C2 4:2FTS	18	18	98	25-150		09/08/2022 14:31
13C5 PFHxA	20	21	105	25-150		09/08/2022 14:31
13C4 PFHpA	20	19	98	25-150		09/08/2022 14:31
13C3 PFHxS	19	18	99	25-150		09/08/2022 14:31
13C2 6:2FTS	19	19	100	25-150		09/08/2022 14:31
13C8 PFOA	20	18	92	25-150		09/08/2022 14:31
13C9 PFNA	20	18	93	25-150		09/08/2022 14:31
13C8 PFOS	19	15	79	25-150		09/08/2022 14:31
13C2 8:2FTS	19	14	75	25-150		09/08/2022 14:31
13C6 PFDA	20	15	78	25-150		09/08/2022 14:31
d3-MeFOSAA	20	10	51	25-150		09/08/2022 14:31
13C8 PFOSA	20	2.2	11	25-150	R	09/08/2022 14:31
d5-EtFOSAA	20	8.9	46	25-150		09/08/2022 14:31
13C7 PFUdA	20	10	53	25-150		09/08/2022 14:31
13C2 PFDaA	20	11	57	25-150		09/08/2022 14:31
13C2 PFTeDA	20	9.4	48	25-150		09/08/2022 14:31
13C3 HFPO-DA	20	17	89	25-150		09/08/2022 14:31
d7-N-MeFOSE	20	0.21	1	10-150	R	09/08/2022 14:31
d9-N-EtFOSE	20	0.17	1	10-150	R	09/08/2022 14:31
d3-N-MeFOSA	20	0.0077	0	10-150	R	09/08/2022 14:31
d5-N-EtFOSA	20	0.00	0	10-150	R	09/08/2022 14:31

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID 200016-FB-1
 Lab Sample ID 40249783006
 Lab File ID B220908A_019
 Matrix Non_Potable_Water
 Collected 08/11/2022 12:05
 Received 08/13/2022 11:55
 Extraction Date 08/31/2022 12:48

Total Amount Extracted 255mL
 Ical ID 220831A02
 CCal File B220908A_013
 Ending CCal File B220908A_024
 Blank File B220916B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.83	5.85	20		09/08/2022 14:31
13C4 PFOA	N/A	N/A	7.05	7.12	18		09/08/2022 14:31
13C2 PFDA	N/A	N/A	8.37	8.47	15		09/08/2022 14:31
13C4 PFOS	N/A	N/A	8.88	8.93	20		09/08/2022 14:31

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.37	4.26	31		09/08/2022 14:31
13C5 PFPeA	N/A	N/A	5.20	5.16	27		09/08/2022 14:31
13C3 PFBS	N/A	N/A	6.09	6.09	30		09/08/2022 14:31
13C2 4:2FTS	N/A	N/A	5.57	5.57	80		09/08/2022 14:31
13C5 PFHxA	N/A	N/A	5.83	5.85	15		09/08/2022 14:31
13C4 PFHpA	N/A	N/A	6.44	6.49	16		09/08/2022 14:31
13C3 PFHxS	N/A	N/A	7.49	7.55	18		09/08/2022 14:31
13C2 6:2FTS	N/A	N/A	6.72	6.79	25		09/08/2022 14:31
13C8 PFOA	N/A	N/A	7.05	7.12	20		09/08/2022 14:31
13C9 PFNA	N/A	N/A	7.69	7.80	15		09/08/2022 14:31
13C8 PFOS	N/A	N/A	8.88	8.93	26		09/08/2022 14:31
13C2 8:2FTS	N/A	N/A	7.97	8.09	56		09/08/2022 14:31
13C6 PFDA	N/A	N/A	8.37	8.47	26		09/08/2022 14:31
d3-MeFOSAA	N/A	N/A	8.22	8.33	89		09/08/2022 14:31
13C8 PFOSA	N/A	N/A	10.64	10.34	54	R	09/08/2022 14:31
d5-EtFOSAA	N/A	N/A	8.52	8.61	77		09/08/2022 14:31
13C7 PFUdA	N/A	N/A	9.04	9.12	20		09/08/2022 14:31
13C2 PFDoA	N/A	N/A	9.71	9.77	10		09/08/2022 14:31
13C2 PFTeDA	N/A	N/A	11.03	11.06	93		09/08/2022 14:31
13C3 HFPO-DA	N/A	N/A	6.08	6.11	18		09/08/2022 14:31
d7-N-MeFOSE	N/A	N/A	12.50	12.48	23	R	09/08/2022 14:31
d9-N-EtFOSE	N/A	N/A	12.97	12.95	72	R	09/08/2022 14:31
d3-N-MeFOSA	N/A	N/A	12.74	12.69	11	R	09/08/2022 14:31
d5-N-EtFOSA	N/A	N/A	0.00	13.11	ND	R	09/08/2022 14:31

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	200016-FB-1	Total Amount Extracted	255mL
Lab Sample ID	40249783006	Ical ID	220831A02
Lab File ID	B220908A_019	CCal File	B220908A_013
Matrix	Non_Potable_Water	Ending CCal File	B220908A_024
Collected	08/11/2022 12:05	Blank File	B220916B_004
Received	08/13/2022 11:55		
Extraction Date	08/31/2022 12:48		

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.37	4.27	ND		09/08/2022 14:31
PFPeA	N/A	N/A	5.21	5.16	ND		09/08/2022 14:31
HFPO-DA	0.00	0.28	0.00	6.12	ND		09/08/2022 14:31
PFBS	0.49	0.46	6.09	6.10	ND		09/08/2022 14:31
PFHxA	0.11	0.07	5.84	5.86	ND		09/08/2022 14:31
4:2 FTS	0.00	0.80	0.00	5.58	ND		09/08/2022 14:31
PFPeS	0.00	0.42	0.00	6.83	ND		09/08/2022 14:31
PFHpA	0.42	0.31	6.44	6.49	ND		09/08/2022 14:31
DONA	0.00	0.57	0.00	6.72	ND		09/08/2022 14:31
PFHxS	0.00	0.36	0.00	7.55	ND		09/08/2022 14:31
PFOA	0.00	0.39	0.00	7.13	ND		09/08/2022 14:31
6:2 FTS	0.96	0.91	6.73	6.79	ND		09/08/2022 14:31
PFHpS	0.00	0.40	0.00	8.27	ND		09/08/2022 14:31
PFNA	0.09	0.15	7.70	7.80	ND		09/08/2022 14:31
PFOSAm	N/A	N/A	0.00	10.35	ND		09/08/2022 14:31
PFOS	0.64	0.36	8.89	8.94	ND		09/08/2022 14:31
MeFOSA	0.00	0.55	0.00	12.71	ND		09/08/2022 14:31
PFDA	0.00	0.18	0.00	8.48	ND		09/08/2022 14:31
EtFOSAm	0.00	0.55	0.00	13.13	ND		09/08/2022 14:31
8:2 FTS	0.85	0.97	7.98	8.09	ND		09/08/2022 14:31
9-CI-PF3ON	0.00	0.05	0.00	9.42	ND		09/08/2022 14:31
PFNS	0.00	0.48	0.00	9.60	ND		09/08/2022 14:31
PFUnDA	0.00	0.12	0.00	9.12	ND		09/08/2022 14:31
NMeFOSAA	0.00	0.82	0.00	8.34	ND		09/08/2022 14:31
NEtFOSAA	0.00	0.64	0.00	8.62	ND		09/08/2022 14:31
PFDS	0.00	0.30	0.00	10.25	ND		09/08/2022 14:31
PFDOA	0.00	0.18	0.00	9.78	ND		09/08/2022 14:31
MeFOSE	N/A	N/A	0.00	12.53	ND		09/08/2022 14:31
EtFOSE	0.00	0.00	0.00	12.99	ND		09/08/2022 14:31
11-CI-PF3OUdS	0.00	0.02	0.00	10.71	ND		09/08/2022 14:31
PFTTrDA	0.00	0.15	0.00	10.43	ND		09/08/2022 14:31
PFDoS	0.00	0.45	0.00	11.46	ND		09/08/2022 14:31
PFTDA	0.00	0.22	0.00	11.06	ND		09/08/2022 14:31

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID 200016-EB-1
 Lab Sample ID 40249783007
 Lab File ID B220908A_020
 Matrix Non_Potable_Water
 Collected 08/11/2022 13:25
 Received 08/13/2022 11:55
 Extraction Date 08/31/2022 12:48

Total Amount Extracted 254mL
 Ical ID 220831A02
 CCal File B220908A_013
 Ending CCal File B220908A_024
 Blank File B220916B_004

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	2.0	0.49	0.49	1	375-22-4		09/08/2022 14:51
PFPeA	ND	2.0	0.81	0.81	1	2706-90-3		09/08/2022 14:51
HFPO-DA	ND	2.0	0.48	0.48	1	13252-13-6		09/08/2022 14:51
PFBS	ND	1.7	0.48	0.48	1	375-73-5		09/08/2022 14:51
PFHxA	ND	2.0	0.90	0.90	1	307-24-4		09/08/2022 14:51
4:2 FTS	ND	1.8	0.46	0.46	1	757124-72-4		09/08/2022 14:51
PFPeS	ND	1.8	0.59	0.59	1	2706-91-4		09/08/2022 14:51
PFHpA	ND	2.0	0.68	0.68	1	375-85-9		09/08/2022 14:51
DONA	ND	1.9	0.90	0.90	1	919005-14-4		09/08/2022 14:51
PFHxS	ND	1.8	0.52	0.52	1	355-46-4		09/08/2022 14:51
PFOA	ND	2.0	0.85	0.85	1	335-67-1		09/08/2022 14:51
6:2 FTS	0.91 J	1.9	0.66	0.66	1	27619-97-2		09/08/2022 14:51
PFHpS	ND	1.9	0.66	0.66	1	375-92-8		09/08/2022 14:51
PFNA	ND	2.0	0.78	0.78	1	375-95-1		09/08/2022 14:51
PFOSAm	ND	2.0	0.71	0.71	1	754-91-6		09/08/2022 14:51
PFOS	ND	1.8	0.66	0.66	1	1763-23-1		09/08/2022 14:51
MeFOSA	ND	2.0	0.54	0.54	1	31506-32-8		09/08/2022 14:51
PFDA	ND	2.0	0.60	0.60	1	335-76-2		09/08/2022 14:51
EtFOSAm	ND	2.0	0.56	0.56	1	4151-50-2		09/08/2022 14:51
8:2 FTS	ND	1.9	0.50	0.50	1	39108-34-4		09/08/2022 14:51
9-CI-PF3ON	ND	1.8	0.46	0.46	1	756426-58-1		09/08/2022 14:51
PFNS	ND	1.9	0.58	0.58	1	68259-12-1		09/08/2022 14:51
PFUnDA	ND	2.0	0.48	0.48	1	2058-94-8		09/08/2022 14:51
NMeFOSAA	ND	2.0	0.68	0.68	1	2355-31-9		09/08/2022 14:51
NEtFOSAA	ND	2.0	0.80	0.80	1	2991-50-6		09/08/2022 14:51
PFDS	ND	1.9	0.63	0.63	1	335-77-3		09/08/2022 14:51
PFDOA	ND	2.0	0.47	0.47	1	307-55-1		09/08/2022 14:51
MeFOSE	ND	2.0	0.51	0.51	1	24448-09-7		09/08/2022 14:51
EtFOSE	ND	2.0	0.87	0.87	1	1691-99-2		09/08/2022 14:51
11-CI-PF3OUdS	ND	1.9	0.55	0.55	1	763051-92-9		09/08/2022 14:51
PFTTrDA	ND	2.0	0.61	0.61	1	72629-94-8		09/08/2022 14:51
PFDoS	ND	1.9	0.58	0.58	1	79780-39-5		09/08/2022 14:51
PFTDA	ND	2.0	0.59	0.59	1	376-06-7		09/08/2022 14:51

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID 200016-EB-1
 Lab Sample ID 40249783007
 Lab File ID B220908A_020
 Matrix Non_Potable_Water
 Collected 08/11/2022 13:25
 Received 08/13/2022 11:55
 Extraction Date 08/31/2022 12:48

Total Amount Extracted 254mL
 Ical ID 220831A02
 CCal File B220908A_013
 Ending CCal File B220908A_024
 Blank File B220916B_004

Injection Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	20	19	98	50-150		09/08/2022 14:51
13C4 PFOA	20	18	93	50-150		09/08/2022 14:51
13C2 PFDA	20	23	116	50-150		09/08/2022 14:51
13C4 PFOS	19	22	116	50-150		09/08/2022 14:51

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	20	19	96	25-150		09/08/2022 14:51
13C5 PFPeA	20	19	95	25-150		09/08/2022 14:51
13C3 PFBS	18	17	95	25-150		09/08/2022 14:51
13C2 4:2FTS	18	16	88	25-150		09/08/2022 14:51
13C5 PFHxA	20	19	99	25-150		09/08/2022 14:51
13C4 PFHpA	20	19	98	25-150		09/08/2022 14:51
13C3 PFHxS	19	17	94	25-150		09/08/2022 14:51
13C2 6:2FTS	19	18	94	25-150		09/08/2022 14:51
13C8 PFOA	20	18	92	25-150		09/08/2022 14:51
13C9 PFNA	20	18	90	25-150		09/08/2022 14:51
13C8 PFOS	19	18	95	25-150		09/08/2022 14:51
13C2 8:2FTS	19	15	80	25-150		09/08/2022 14:51
13C6 PFDA	20	16	81	25-150		09/08/2022 14:51
d3-MeFOSAA	20	9.7	49	25-150		09/08/2022 14:51
13C8 PFOSA	20	12	63	25-150		09/08/2022 14:51
d5-EtFOSAA	20	8.8	45	25-150		09/08/2022 14:51
13C7 PFUdA	20	14	71	25-150		09/08/2022 14:51
13C2 PFDaA	20	13	66	25-150		09/08/2022 14:51
13C2 PFTeDA	20	11	55	25-150		09/08/2022 14:51
13C3 HFPO-DA	20	17	88	25-150		09/08/2022 14:51
d7-N-MeFOSE	20	4.6	23	10-150		09/08/2022 14:51
d9-N-EtFOSE	20	2.8	14	10-150		09/08/2022 14:51
d3-N-MeFOSA	20	0.23	1	10-150	R	09/08/2022 14:51
d5-N-EtFOSA	20	0.096	0	10-150	R	09/08/2022 14:51

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	200016-EB-1	Total Amount Extracted	254mL
Lab Sample ID	40249783007	Ical ID	220831A02
Lab File ID	B220908A_020	CCal File	B220908A_013
Matrix	Non_Potable_Water	Ending CCal File	B220908A_024
Collected	08/11/2022 13:25	Blank File	B220916B_004
Received	08/13/2022 11:55		
Extraction Date	08/31/2022 12:48		

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.83	5.85	17		09/08/2022 14:51
13C4 PFOA	N/A	N/A	7.06	7.12	17		09/08/2022 14:51
13C2 PFDA	N/A	N/A	8.38	8.47	17		09/08/2022 14:51
13C4 PFOS	N/A	N/A	8.88	8.93	21		09/08/2022 14:51

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.36	4.26	26		09/08/2022 14:51
13C5 PFPeA	N/A	N/A	5.20	5.16	29		09/08/2022 14:51
13C3 PFBS	N/A	N/A	6.09	6.09	22		09/08/2022 14:51
13C2 4:2FTS	N/A	N/A	5.57	5.57	74		09/08/2022 14:51
13C5 PFHxA	N/A	N/A	5.83	5.85	16		09/08/2022 14:51
13C4 PFHpA	N/A	N/A	6.44	6.49	15		09/08/2022 14:51
13C3 PFHxS	N/A	N/A	7.49	7.55	22		09/08/2022 14:51
13C2 6:2FTS	N/A	N/A	6.73	6.79	63		09/08/2022 14:51
13C8 PFOA	N/A	N/A	7.06	7.12	19		09/08/2022 14:51
13C9 PFNA	N/A	N/A	7.70	7.80	21		09/08/2022 14:51
13C8 PFOS	N/A	N/A	8.88	8.93	22		09/08/2022 14:51
13C2 8:2FTS	N/A	N/A	7.98	8.09	37		09/08/2022 14:51
13C6 PFDA	N/A	N/A	8.38	8.47	18		09/08/2022 14:51
d3-MeFOSAA	N/A	N/A	8.23	8.33	14		09/08/2022 14:51
13C8 PFOSA	N/A	N/A	10.64	10.34	76		09/08/2022 14:51
d5-EtFOSAA	N/A	N/A	8.52	8.61	60		09/08/2022 14:51
13C7 PFUdA	N/A	N/A	9.05	9.12	21		09/08/2022 14:51
13C2 PFDaA	N/A	N/A	9.71	9.77	14		09/08/2022 14:51
13C2 PFTeDA	N/A	N/A	11.03	11.06	11		09/08/2022 14:51
13C3 HFPO-DA	N/A	N/A	6.08	6.11	20		09/08/2022 14:51
d7-N-MeFOSE	N/A	N/A	12.50	12.48	54		09/08/2022 14:51
d9-N-EtFOSE	N/A	N/A	12.98	12.95	27		09/08/2022 14:51
d3-N-MeFOSA	N/A	N/A	12.72	12.69	11	R	09/08/2022 14:51
d5-N-EtFOSA	N/A	N/A	13.13	13.11	10	R	09/08/2022 14:51

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	200016-EB-1	Total Amount Extracted	254mL
Lab Sample ID	40249783007	Ical ID	220831A02
Lab File ID	B220908A_020	CCal File	B220908A_013
Matrix	Non_Potable_Water	Ending CCal File	B220908A_024
Collected	08/11/2022 13:25	Blank File	B220916B_004
Received	08/13/2022 11:55		
Extraction Date	08/31/2022 12:48		

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.37	4.27	ND		09/08/2022 14:51
PFPeA	N/A	N/A	5.21	5.16	ND		09/08/2022 14:51
HFPO-DA	0.00	0.28	0.00	6.12	ND		09/08/2022 14:51
PFBS	0.41	0.46	6.09	6.10	ND		09/08/2022 14:51
PFHxA	0.08	0.07	5.84	5.86	ND		09/08/2022 14:51
4:2 FTS	0.00	0.80	0.00	5.58	ND		09/08/2022 14:51
PFPeS	0.00	0.42	0.00	6.83	ND		09/08/2022 14:51
PFHpA	0.38	0.31	6.45	6.49	ND		09/08/2022 14:51
DONA	0.00	0.57	0.00	6.72	ND		09/08/2022 14:51
PFHxS	0.00	0.36	0.00	7.55	ND		09/08/2022 14:51
PFOA	0.00	0.39	0.00	7.13	ND		09/08/2022 14:51
6:2 FTS	0.84	0.91	6.73	6.79	47	J	09/08/2022 14:51
PFHpS	0.00	0.40	0.00	8.27	ND		09/08/2022 14:51
PFNA	0.00	0.15	0.00	7.80	ND		09/08/2022 14:51
PFOSAm	N/A	N/A	0.00	10.35	ND		09/08/2022 14:51
PFOS	0.39	0.36	8.89	8.94	ND		09/08/2022 14:51
MeFOSA	0.00	0.55	0.00	12.71	ND		09/08/2022 14:51
PFDA	0.00	0.18	0.00	8.48	ND		09/08/2022 14:51
EtFOSAm	0.00	0.55	0.00	13.13	ND		09/08/2022 14:51
8:2 FTS	1.20	0.97	7.97	8.09	ND		09/08/2022 14:51
9-CI-PF3ON	0.00	0.05	0.00	9.42	ND		09/08/2022 14:51
PFNS	0.00	0.48	0.00	9.60	ND		09/08/2022 14:51
PFUnDA	0.00	0.12	0.00	9.12	ND		09/08/2022 14:51
NMeFOSAA	0.00	0.82	0.00	8.34	ND		09/08/2022 14:51
NEtFOSAA	0.00	0.64	0.00	8.62	ND		09/08/2022 14:51
PFDS	0.00	0.30	0.00	10.25	ND		09/08/2022 14:51
PFDOA	0.00	0.18	0.00	9.78	ND		09/08/2022 14:51
MeFOSE	N/A	N/A	0.00	12.53	ND		09/08/2022 14:51
EtFOSE	0.00	0.00	0.00	12.99	ND		09/08/2022 14:51
11-CI-PF3OUdS	0.00	0.02	0.00	10.71	ND		09/08/2022 14:51
PFTTrDA	0.00	0.15	0.00	10.43	ND		09/08/2022 14:51
PFDoS	0.00	0.45	0.00	11.46	ND		09/08/2022 14:51
PFTDA	0.00	0.22	0.00	11.06	ND		09/08/2022 14:51

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKCF
 Lab Sample ID BLANK-100899
 Lab File ID B220916B_004
 Matrix Water
 Collected 08/25/2022 19:25
 Received 08/25/2022 19:25
 Extraction Date 08/31/2022 12:48

Total Amount Extracted 250mL
 Ical ID 220916A02
 CCal File B220916B_002
 Ending CCal File B220916B_014
 Blank File

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	2.0	0.50	0.50	1	375-22-4		09/16/2022 14:32
PFPeA	ND	2.0	0.82	0.82	1	2706-90-3		09/16/2022 14:32
HFPO-DA	ND	2.0	0.49	0.49	1	13252-13-6		09/16/2022 14:32
PFBS	ND	1.8	0.48	0.48	1	375-73-5		09/16/2022 14:32
PFHxA	ND	2.0	0.91	0.91	1	307-24-4		09/16/2022 14:32
4:2 FTS	ND	1.9	0.47	0.47	1	757124-72-4		09/16/2022 14:32
PFPeS	ND	1.9	0.60	0.60	1	2706-91-4		09/16/2022 14:32
PFHpA	ND	2.0	0.69	0.69	1	375-85-9		09/16/2022 14:32
DONA	ND	1.9	0.92	0.92	1	919005-14-4		09/16/2022 14:32
PFHxS	ND	1.8	0.53	0.53	1	355-46-4		09/16/2022 14:32
PFOA	ND	2.0	0.86	0.86	1	335-67-1		09/16/2022 14:32
6:2 FTS	ND	1.9	0.68	0.68	1	27619-97-2		09/16/2022 14:32
PFHpS	ND	1.9	0.67	0.67	1	375-92-8		09/16/2022 14:32
PFNA	ND	2.0	0.79	0.79	1	375-95-1		09/16/2022 14:32
PFOSAm	ND	2.0	0.72	0.72	1	754-91-6		09/16/2022 14:32
PFOS	ND	1.8	0.67	0.67	1	1763-23-1		09/16/2022 14:32
MeFOSA	ND	2.0	0.55	0.55	1	31506-32-8		09/16/2022 14:32
PFDA	ND	2.0	0.61	0.61	1	335-76-2		09/16/2022 14:32
EtFOSAm	ND	2.0	0.57	0.57	1	4151-50-2		09/16/2022 14:32
8:2 FTS	ND	1.9	0.50	0.50	1	39108-34-4		09/16/2022 14:32
9-CI-PF3ON	ND	1.9	0.47	0.47	1	756426-58-1		09/16/2022 14:32
PFNS	ND	1.9	0.59	0.59	1	68259-12-1		09/16/2022 14:32
PFUnDA	ND	2.0	0.48	0.48	1	2058-94-8		09/16/2022 14:32
NMeFOSAA	ND	2.0	0.69	0.69	1	2355-31-9		09/16/2022 14:32
NEtFOSAA	ND	2.0	0.81	0.81	1	2991-50-6		09/16/2022 14:32
PFDS	ND	1.9	0.64	0.64	1	335-77-3		09/16/2022 14:32
PFDOA	ND	2.0	0.48	0.48	1	307-55-1		09/16/2022 14:32
MeFOSE	ND	2.0	0.52	0.52	1	24448-09-7		09/16/2022 14:32
EtFOSE	ND	2.0	0.89	0.89	1	1691-99-2		09/16/2022 14:32
11-CI-PF3OUdS	ND	1.9	0.56	0.56	1	763051-92-9		09/16/2022 14:32
PFTTrDA	ND	2.0	0.62	0.62	1	72629-94-8		09/16/2022 14:32
PFDoS	ND	1.9	0.59	0.59	1	79780-39-5		09/16/2022 14:32
PFTDA	ND	2.0	0.60	0.60	1	376-06-7		09/16/2022 14:32

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKCF	Total Amount Extracted	250mL
Lab Sample ID	BLANK-100899	Ical ID	220916A02
Lab File ID	B220916B_004	CCal File	B220916B_002
Matrix	Water	Ending CCal File	B220916B_014
Collected	08/25/2022 19:25	Blank File	
Received	08/25/2022 19:25		
Extraction Date	08/31/2022 12:48		

Injection Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	20	19	95	50-150		09/16/2022 14:32
13C4 PFOA	20	22	110	50-150		09/16/2022 14:32
13C2 PFDA	20	20	99	50-150		09/16/2022 14:32
13C4 PFOS	19	20	104	50-150		09/16/2022 14:32

Extracted Internal Standards

Compound	Known Conc. (ng/L)	Conc.Found (ng/L)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	20	21	104	50-150		09/16/2022 14:32
13C5 PFPeA	20	21	104	50-150		09/16/2022 14:32
13C3 PFBS	19	17	91	50-150		09/16/2022 14:32
13C2 4:2FTS	19	18	95	50-150		09/16/2022 14:32
13C5 PFHxA	20	21	105	50-150		09/16/2022 14:32
13C4 PFHpA	20	20	99	50-150		09/16/2022 14:32
13C3 PFHxS	19	19	99	50-150		09/16/2022 14:32
13C2 6:2FTS	19	19	100	50-150		09/16/2022 14:32
13C8 PFOA	20	20	101	50-150		09/16/2022 14:32
13C9 PFNA	20	21	106	50-150		09/16/2022 14:32
13C8 PFOS	19	19	100	50-150		09/16/2022 14:32
13C2 8:2FTS	19	18	92	50-150		09/16/2022 14:32
13C6 PFDA	20	22	112	50-150		09/16/2022 14:32
d3-MeFOSAA	20	11	57	50-150		09/16/2022 14:32
13C8 PFOSA	20	9.6	48	50-150	R	09/16/2022 14:32
d5-EtFOSAA	20	12	58	50-150		09/16/2022 14:32
13C7 PFUdA	20	16	81	50-150		09/16/2022 14:32
13C2 PFDoA	20	15	77	50-150		09/16/2022 14:32
13C2 PFTeDA	20	12	60	50-150		09/16/2022 14:32
13C3 HFPO-DA	20	21	103	50-150		09/16/2022 14:32
d7-N-MeFOSE	20	3.0	15	20-150	R	09/16/2022 14:32
d9-N-EtFOSE	20	1.8	9	20-150	R	09/16/2022 14:32
d3-N-MeFOSA	20	0.050	0	20-150	R	09/16/2022 14:32
d5-N-EtFOSA	20	0.044	0	20-150	R	09/16/2022 14:32

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKCF
 Lab Sample ID BLANK-100899
 Lab File ID B220916B_004
 Matrix Water
 Collected 08/25/2022 19:25
 Received 08/25/2022 19:25
 Extraction Date 08/31/2022 12:48

Total Amount Extracted 250mL
 Ical ID 220916A02
 CCal File B220916B_002
 Ending CCal File B220916B_014
 Blank File

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.71	5.72	19		09/16/2022 14:32
13C4 PFOA	N/A	N/A	6.86	6.87	22		09/16/2022 14:32
13C2 PFDA	N/A	N/A	8.07	8.08	14		09/16/2022 14:32
13C4 PFOS	N/A	N/A	8.48	8.49	23		09/16/2022 14:32

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.26	4.26	26		09/16/2022 14:32
13C5 PFPeA	N/A	N/A	5.10	5.10	26		09/16/2022 14:32
13C3 PFBS	N/A	N/A	5.90	5.90	23		09/16/2022 14:32
13C2 4:2FTS	N/A	N/A	5.48	5.47	74		09/16/2022 14:32
13C5 PFHxA	N/A	N/A	5.71	5.70	17		09/16/2022 14:32
13C4 PFHpA	N/A	N/A	6.29	6.27	15		09/16/2022 14:32
13C3 PFHxS	N/A	N/A	7.20	7.17	23		09/16/2022 14:32
13C2 6:2FTS	N/A	N/A	6.58	6.56	75		09/16/2022 14:32
13C8 PFOA	N/A	N/A	6.86	6.84	23		09/16/2022 14:32
13C9 PFNA	N/A	N/A	7.46	7.43	23		09/16/2022 14:32
13C8 PFOS	N/A	N/A	8.49	8.47	65		09/16/2022 14:32
13C2 8:2FTS	N/A	N/A	7.74	7.71	71		09/16/2022 14:32
13C6 PFDA	N/A	N/A	8.07	8.05	19		09/16/2022 14:32
d3-MeFOSAA	N/A	N/A	7.99	8.33	40		09/16/2022 14:32
13C8 PFOSA	N/A	N/A	10.64	10.64	12	R	09/16/2022 14:32
d5-EtFOSAA	N/A	N/A	8.26	8.27	49		09/16/2022 14:32
13C7 PFUdA	N/A	N/A	8.71	8.73	24		09/16/2022 14:32
13C2 PFDoA	N/A	N/A	9.36	9.36	10		09/16/2022 14:32
13C2 PFTeDA	N/A	N/A	10.57	10.57	12		09/16/2022 14:32
13C3 HFPO-DA	N/A	N/A	5.94	5.94	23		09/16/2022 14:32
d7-N-MeFOSE	N/A	N/A	12.48	12.45	34	R	09/16/2022 14:32
d9-N-EtFOSE	N/A	N/A	12.95	12.93	74	R	09/16/2022 14:32
d3-N-MeFOSA	N/A	N/A	12.67	12.75	51	R	09/16/2022 14:32
d5-N-EtFOSA	N/A	N/A	13.10	13.10	47	R	09/16/2022 14:32

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKCF	Total Amount Extracted	250mL
Lab Sample ID	BLANK-100899	Ical ID	220916A02
Lab File ID	B220916B_004	CCal File	B220916B_002
Matrix	Water	Ending CCal File	B220916B_014
Collected	08/25/2022 19:25	Blank File	
Received	08/25/2022 19:25		
Extraction Date	08/31/2022 12:48		

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.27	4.26	ND		09/16/2022 14:32
PFPeA	N/A	N/A	5.11	5.11	ND		09/16/2022 14:32
HFPO-DA	0.56	0.28	5.96	5.97	ND		09/16/2022 14:32
PFBS	0.24	0.44	5.92	5.92	ND		09/16/2022 14:32
PFHxA	0.00	0.08	0.00	5.73	ND		09/16/2022 14:32
4:2 FTS	0.00	1.00	0.00	5.49	ND		09/16/2022 14:32
PFPeS	0.00	0.42	6.57	6.58	ND		09/16/2022 14:32
PFHpA	0.29	0.30	6.30	6.31	ND		09/16/2022 14:32
DONA	0.00	0.52	0.00	6.52	ND		09/16/2022 14:32
PFHxS	0.00	0.36	0.00	7.21	ND		09/16/2022 14:32
PFOA	0.00	0.40	0.00	6.88	ND		09/16/2022 14:32
6:2 FTS	0.96	0.93	6.58	6.58	ND		09/16/2022 14:32
PFHpS	0.00	0.41	0.00	7.87	ND		09/16/2022 14:32
PFNA	0.00	0.11	0.00	7.47	ND		09/16/2022 14:32
PFOSAm	N/A	N/A	0.00	10.67	ND		09/16/2022 14:32
PFOS	0.29	0.36	8.50	8.51	ND		09/16/2022 14:32
MeFOSA	0.00	0.51	0.00	12.69	ND		09/16/2022 14:32
PFDA	0.00	0.21	0.00	8.09	ND		09/16/2022 14:32
EtFOSAm	0.00	0.53	0.00	13.12	ND		09/16/2022 14:32
8:2 FTS	0.00	0.90	0.00	7.75	ND		09/16/2022 14:32
9-CI-PF3ON	0.00	0.06	0.00	9.00	ND		09/16/2022 14:32
PFNS	0.00	0.44	0.00	9.18	ND		09/16/2022 14:32
PFUnDA	0.00	0.13	0.00	8.74	ND		09/16/2022 14:32
NMeFOSAA	0.00	0.91	0.00	8.01	ND		09/16/2022 14:32
NEtFOSAA	0.00	0.63	0.00	8.29	ND		09/16/2022 14:32
PFDS	0.00	0.36	0.00	9.80	ND		09/16/2022 14:32
PFDOA	0.00	0.14	0.00	9.39	ND		09/16/2022 14:32
MeFOSE	N/A	N/A	0.00	12.52	ND		09/16/2022 14:32
EtFOSE	0.00	0.00	0.00	12.98	ND		09/16/2022 14:32
11-CI-PF3OUdS	0.00	0.02	0.00	10.23	ND		09/16/2022 14:32
PFTTrDA	0.00	0.14	0.00	10.00	ND		09/16/2022 14:32
PFDoS	0.00	0.43	0.00	10.95	ND		09/16/2022 14:32
PFTDA	0.00	0.27	0.00	10.59	ND		09/16/2022 14:32

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID	LCS-100900	Instrument ID	10LCMS02
Run File Name	B220916B_005	Column ID	125GA90033
Analyzed	09/16/2022 14:52	Ical ID	220916A02
Injected By	NH	Level	L

Injection Internal Standards

Compound	Known Conc. ng/L	Conc. Found ng/L	%Recovery	Recovery Limits	Qualifiers
13C2 PFHxA	20	20	99	50-150	
13C4 PFOA	20	22	110	50-150	
13C2 PFDA	20	23	117	50-150	
13C4 PFOS	19	19	98	50-150	

Extracted Internal Standards

Compound	Known Conc. ng/L	Conc. Found ng/L	%Recovery	Recovery Limits	Qualifiers
13C4 PFBA	20	21	107	50-150	
13C5 PFPeA	20	21	107	50-150	
13C3 PFBS	19	18	98	50-150	
13C2 4:2FTS	19	19	99	50-150	
13C5 PFHxA	20	21	103	50-150	
13C4 PFHpA	20	19	97	50-150	
13C3 PFHxS	19	19	99	50-150	
13C2 6:2FTS	19	19	99	50-150	
13C8 PFOA	20	21	103	50-150	
13C9 PFNA	20	22	110	50-150	
13C8 PFOS	19	20	106	50-150	
13C2 8:2FTS	19	17	88	50-150	
13C6 PFDA	20	21	105	50-150	
d3-MeFOSAA	20	14	70	50-150	
13C8 PFOSA	20	14	71	50-150	
d5-EtFOSAA	20	14	72	50-150	
13C7 PFUdA	20	17	84	50-150	
13C2 PFDoA	20	19	93	50-150	
13C2 PFTeDA	20	14	70	50-150	
13C3 HFPO-DA	20	21	105	50-150	
d7-N-MeFOSE	20	12	58	20-150	
d9-N-EtFOSE	20	10	51	20-150	
d3-N-MeFOSA	20	5.2	26	20-150	
d5-N-EtFOSA	20	4.3	21	20-150	

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-100900
 Run File Name B220916B_005
 Analyzed 09/16/2022 14:52
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220916A02
 Level L

Native Analytes

Compound	Known Conc. ng/L	Conc. Found ng/L	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	4.0	4.2	106	50-150		375-22-4
PFPeA	4.0	4.4	110	50-150		2706-90-3
HFPO-DA	4.0	3.5	88	50-150		13252-13-6
PFBS	3.5	3.9	111	50-150		375-73-5
PFHxA	4.0	4.2	104	50-150		307-24-4
4:2 FTS	3.7	3.7	98	50-150		757124-72-4
PFPeS	3.8	3.9	103	50-150		2706-91-4
PFHpA	4.0	4.2	106	50-150		375-85-9
DONA	3.8	3.9	104	50-150		919005-14-4
PFHxS	3.6	3.7	102	50-150		355-46-4
PFOA	4.0	4.3	107	50-150		335-67-1
6:2 FTS	3.8	3.9	104	50-150		27619-97-2
PFHpS	3.8	4.0	105	50-150		375-92-8
PFNA	4.0	4.1	102	50-150		375-95-1
PFOSAm	4.0	4.2	105	50-150		754-91-6
PFOS	3.7	3.8	102	50-150		1763-23-1
MeFOSA	4.0	3.9	97	50-150		31506-32-8
PFDA	4.0	3.9	96	50-150		335-76-2
EtFOSAm	4.0	3.6	89	50-150		4151-50-2
8:2 FTS	3.8	4.4	114	50-150		39108-34-4
9-CI-PF3ON	3.7	3.6	97	50-150		756426-58-1
PFNS	3.8	3.7	96	50-150		68259-12-1
PFUnDA	4.0	4.5	114	50-150		2058-94-8
NMeFOSAA	4.0	3.7	91	50-150		2355-31-9
NEtFOSAA	4.0	3.8	96	50-150		2991-50-6
PFDS	3.9	3.2	84	50-150		335-77-3
PFDOA	4.0	3.4	86	50-150		307-55-1
MeFOSE	4.0	3.7	92	50-150		24448-09-7
EtFOSE	4.0	4.0	100	50-150		1691-99-2
11-CI-PF3OUdS	3.8	3.2	84	50-150		763051-92-9
PFTrDA	4.0	3.4	86	50-150		72629-94-8
PFDoS	3.9	3.0	77	50-150		79780-39-5
PFTDA	4.0	3.9	98	50-150		376-06-7

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-100900
 Run File Name B220916B_005
 Analyzed 09/16/2022 14:52
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220916A02
 Level L

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.71	5.72	1986	
13C4 PFOA	N/A	N/A	6.87	6.87	2505	
13C2 PFDA	N/A	N/A	8.07	8.08	2095	
13C4 PFOS	N/A	N/A	8.49	8.49	2503	

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.26	4.26	2377	
13C5 PFPeA	N/A	N/A	5.10	5.10	2812	
13C3 PFBS	N/A	N/A	5.90	5.90	2933	
13C2 4:2FTS	N/A	N/A	5.47	5.47	600	
13C5 PFHxA	N/A	N/A	5.71	5.70	1782	
13C4 PFHpA	N/A	N/A	6.29	6.27	2162	
13C3 PFHxS	N/A	N/A	7.20	7.17	2658	
13C2 6:2FTS	N/A	N/A	6.58	6.56	2846	
13C8 PFOA	N/A	N/A	6.87	6.84	3290	
13C9 PFNA	N/A	N/A	7.46	7.43	2277	
13C8 PFOS	N/A	N/A	8.49	8.47	2607	
13C2 8:2FTS	N/A	N/A	7.74	7.71	708	
13C6 PFDA	N/A	N/A	8.07	8.05	1902	
d3-MeFOSAA	N/A	N/A	7.99	8.33	2578	
13C8 PFOSA	N/A	N/A	10.64	10.64	1133	
d5-EtFOSAA	N/A	N/A	8.27	8.27	1460	
13C7 PFUdA	N/A	N/A	8.72	8.73	2026	
13C2 PFDoA	N/A	N/A	9.37	9.36	1285	
13C2 PFTeDA	N/A	N/A	10.58	10.57	1418	
13C3 HFPO-DA	N/A	N/A	5.94	5.94	2703	
d7-N-MeFOSE	N/A	N/A	12.49	12.45	29	
d9-N-EtFOSE	N/A	N/A	12.96	12.93	113	
d3-N-MeFOSA	N/A	N/A	12.69	12.75	642	
d5-N-EtFOSA	N/A	N/A	13.12	13.10	607	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-100900
 Run File Name B220916B_005
 Analyzed 09/16/2022 14:52
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220916A02
 Level L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.27	4.26	169	
PFPeA	N/A	N/A	5.11	5.11	326	
HFPO-DA	0.29	0.28	5.96	5.97	725	
PFBS	0.41	0.44	5.91	5.92	1347	
PFHxA	0.08	0.08	5.72	5.73	185	
4:2 FTS	0.88	1.00	5.48	5.49	285050	
PFPeS	0.41	0.42	6.57	6.58	2370	
PFHpA	0.33	0.30	6.30	6.31	22	
DONA	0.55	0.52	6.51	6.52	1208	
PFHxS	0.36	0.36	7.21	7.21	1274	
PFOA	0.40	0.40	6.88	6.88	226	
6:2 FTS	1.00	0.93	6.58	6.58	724	
PFHpS	0.41	0.41	7.85	7.87	2531	
PFNA	0.12	0.11	7.47	7.47	587	
PFOSAm	N/A	N/A	10.65	10.67	175	
PFOS	0.38	0.36	8.50	8.51	493	
MeFOSA	0.50	0.51	12.71	12.69	347	
PFDA	0.19	0.21	8.08	8.09	403	
EtFOSAm	0.66	0.53	13.14	13.12	395	
8:2 FTS	0.86	0.90	7.74	7.75	887	
9-CI-PF3ON	0.06	0.06	8.99	9.00	720	
PFNS	0.50	0.44	9.17	9.18	1136	
PFUnDA	0.13	0.13	8.72	8.74	328	
NMeFOSAA	0.87	0.91	8.00	8.01	150	
NEtFOSAA	0.76	0.63	8.29	8.29	155	
PFDS	0.37	0.36	9.79	9.80	1631	
PFDOA	0.20	0.14	9.37	9.39	220	
MeFOSE	N/A	N/A	12.53	12.52	279	
EtFOSE	0.00	0.00	13.00	12.98	316	
11-CI-PF3OUdS	0.02	0.02	10.22	10.23	550	
PFTrDA	0.17	0.14	9.99	10.00	189	
PFDoS	0.43	0.43	10.94	10.95	1349	
PFTDA	0.30	0.27	10.59	10.59	197	

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