750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

ACCREDITED
CERTIFICATE #'s 5890.01 & 5890.02

Laboratory Report

for

State of Hawaii DOH
Hazard Evaluation and Emergency Response
Office (HEER)
2385 Waimano Home Road
Pearl City, HI 96782
Attention: Diana Felton, MD

Date of Issue
01/04/2022
EUROFINS EATON
ANALYTICAL, LLC

NELAP ACCREDITED TNI LABORATORY
Utah ELCP CA00006

Report: 976957
Project: NAVY
Group: RUSH Red Hill 2021 - PFAS 40 TA-SAC 5bd

DEB: Debbie L Frank

Project Manager

* Accredited in accordance with TNI 2016 and ISO/IEC 17025:2017.
* Laboratory certifies that the test results meet all **TNI 2016 and ISO/IEC 17025:2017** requirements unless noted under the individual analysis.
* As applicable, this report consists of the cover page, State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms.
* Test results relate only to the sample(s) tested.
* Test results apply to the sample(s) as received, unless otherwise noted in the comments report (ISO/IEC 17025:2017).
* This report shall not be reproduced except in full, without the written approval of the laboratory.
* This report includes ISO/IEC 17025 and non-ISO 17025 accredited methods.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Montana	Cert 0035
Arizona	AZ0778	Nebraska	NE-OS-21-13
Arkansas	CA00006	Nevada	CA00006
California	2813	New Hampshire *	2959
Colorado	CA00006	New Jersey *	CA 008
Connecticut	PH-0107	New Mexico	CA00006
Delaware	CA 006	New York *	11320
Florida *	E871024	North Carolina	06701
Georgia	947	North Dakota	R-009
Guam	21-008R	Ohio - 537.1	87786
Hawaii	CA00006	Oregon *	4034
Idaho	CA00006	Pennsylvania *	68-00565
Illinois	200033	Puerto Rico	CA00006
Indiana	C-CA-01	Rhode Island	LAO00326
Iowa – Asbestos	413	South Carolina	87016
Kansas *	E-10268	South Dakota	CA11320
Kentucky	90107	Tennessee	TN02839
Louisiana *	LA008	Texas *	T104704230-20-18
Maine	CA00006	Utah (Primary AB) *	CA00006
Maryland	224	Vermont	VT0114
Marianas Islands	MP0004	Virginia *	460260
Massachusetts	M-CA006	Washington	C838
Michigan	9906	EPA Region 5	CA00006
Mississippi	CA00006	Los Angeles County Sanitation Districts	10264

* NELAP/TNI Recognized Accreditation Bodies

ISO/IEC 17025:2917 Accredited Method List

The test listed below are accredited and met the requirements of ISO/IEC 17025 as verify by A2LA.

Refer to our certificates and scope of accreditations (no. 5890-1 and 5890-2) found at:

https://www.eurofinsus.com/Eaton

Test(s)	Method(s)	Potable Water *	Waste Water
Enterococci	Enterolert	x	x
Escherichia coli (Enumeration)	SM 9221 B.1 SM 9221 F	x	
Fecal Coliform (P/A and Enumeration)	SM 9221 C (MTF/EC), SM 9221 E (MTF/EC)	x	x
Fecal Streptococci and Enterococci	SM 9230 B	x	x
Heterotrophic Bacteria	SM 9215 B	x	
Legionella	Legiolert®	x	
Pseudomonas aeruginosa	Idexx Pseudalert	x	
Total Coliform (P/A and Enumeration)	SM 9221A, SM 9221B, SM 9221 C	x	x
Total Coliform, Total Coliform with Chlorine Present	SM 9221 B	x	x
Total Coliform/E. coli (P/A and Enumeration, Idexx Colilert, Idexx Colilert 18, Colisure)	SM 9223	x	
Total Microcystins and Nodularins	EPA 546	X	
Yeast and Mold	SM 9610	x	
1,2,3-Trichloropropane (TCP) at 5 PPT	CA SRL 524M-TCP	x	
1,4-Dioxane	EPA 522	x	
2,3,7,8-TCDD	Modified EPA 1613 B	X	
Acrylamide	+LCMS 2440)	x	
Algal Toxins/Microcystin	+ LCMS 3570	x	
Alkalinity	SM 2320B	x	x
Ammonia	EPA 350.1, SM 4500-NH3 H		x
Asbestos	EPA 100.2	x	x
Bicarbonate Alkalinity as HCO3	SM 2330 B	x	x
BOD/CBOD	SM 5210 B		x
Bromate	+LCMS- 2447	x	
Carbonate as CO3	SM 2330 B	x	x
Carbonyls	EPA 556	x	x
Chemical Oxygen Demand	EPA 410.4, SM 5220D		x
Chlorinated Acids	EPA 515.4	x	
Chlorine Dioxide	Palin Test Chlordio X Plus, SM 4500-CLO2 D	x	
Chlorine, Free, Combined, Total Residual, Chloramines	SM 4500-Cl G	x	
Color	SM2120B	x	
Conductivity	EPA 120.1, SM 2510B	x	x
Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated	SM 2330 B	x	
Cyanide (Amenable)	SM 4500-CN G	x	x
Cyanide (Free)	SM 4500CN F	x	x
Cyanide (Total)	EPA 335.4	x	x
Cyanogen Chloride (Screen)	+335 Mod (WC-24467)	x	
Diquat and Paraquat	EPA 549.2	x	
DBP and HAA	SM 6251 B	x	
Dissolved Organic Carbon	SM 5310 C	x	
Dissolved Oxygen	SM 4500-O G		x
EDB/DCBP/TCP	EPA 504.1	x	
EDB/DBCP and Disinfection Byproducts	EPA 551.1	x	
EDTA and NTA	+ WC-2454	x	
Endothall	EPA 548.1, +(LCMS-2445)	x	
Fluoride	SM 4500F C	x	x
Glyphosate	EPA 547	x	
Glyphosate and AMPA	+LCMS-3618	x	
Gross Alpha and Gross Beta	EPA 900.0	x	x

Test(s)	Method(s)	Potable Water *	Waste Water
Gross Alpha coprecipitation	SM 7110 C	x	x
Hardness	SM 2340 B	x	x
Hexavalent Chromium	EPA 218.6,	x	x
Hexavalent Chromium	EPA 218.7,	x	
Hexavalent Chromium	SM 3500-Cr B		x
Inorganic Anions and DBPs	EPA 300.0	x	x
Norganic Anions and DBPs	EPA 300.1	x	
Kjeldahl Nitrogen	EPA 351.2		x
Metals	EPA 200.7, EPA200.8	x	x
Nitrosamines	EEA-Agilent 521.1 (GCMS-24250)	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x
Odor	SM2150B	x	
Organohalide Pesticides and PCB	EPA 505	x	
Ortho Phosphate	SM 4500P E	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	
Perchlorate	EPA 331.0	x	
Perchlorate (Low and High Levels)	EPA 314.0	x	
Perfluorinated Alkyl Acids	EPA 533, EPA 537, EPA 537.1	x	
PPCP and EDC	+LCMS-2443	x	
pH	EPA 150.1 SM 4500-H+ B	x	x
Phenolics – Low Level	+WC 2493 (EPA 420.2 and EPA 420.4 MOD)	x	x
Phenylurea Pesticides/Herbicides	+LCMS-2448	x	
Radium-226, Radium-228	GA Tech (Rad-2374)	x	
Radon-222	SM 7500RN	x	
Residue (Filterable)	SM 2540C	x	x
Residue (Non-Filterable)	SM 2540D		x
Residue (Total)	SM 2540B		x
Residue (Volatile)	EPA 160.4		x
Semi-Volatile Compounds	EPA 525.2	x	
Silica	SM 4500-SiO2 C	x	x
Sulfide	SM 4500-S D		x
Sulfite	SM 4500-SO3 B	x	x
Surfactants	SM 5540C	x	x
Taste and Odor	SM 6040 E	x	
Total Organic Carbon	SM 5310 C	x	x
Total Phenols	EPA 420.1		x
Total Phenols	EPA 420.4	x	x
Triazine Pesticides and their Degradates	+LCMS-3617	x	
Turbidity	EPA 180.1	x	x
Uranium by ICP/MS	EPA 200.8	x	
UV 254 Organic Constituents	SM 5910B	x	
VOCs	EPA 524.2	x	
VOCs	+(GCMS 2412) by EPA 524.2 modified	x	

(*) includes: Bottled Water, Drinking Water and Water as Component of Food & Beverage.

(+) In-House Method

eurofins | Eaton Analytical

Acknowledgement of Samples Received

Addr: **State of Hawaii DOH**
Hazard Evaluation and Emergency Response Office
(HEER)
2385 Waimano Home Road
Pearl City, HI 96782
Attn: Diana Felton, MD
Phone: 808-586-0963

Client ID: HAWAII-DOH
Folder #: 976957
Project: NAVY
Sample Group: RUSH Red Hill 2021 - PFAS 40
TA-SAC 5bd
Project Manager: Debbie L Frank
Phone: (626) 386-1149

The following samples were received from you on **December 22, 2021** at **1110**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

Sample #	Sample ID		Sample Date
202112260030	RUSH		12/18/2021 0930
	Static ID: PFAS 1633 40 analytes		
	RUSH		
202112260031	RADFORD TERRACE COMMUNITY CENTER (MURRAY STREET)		12/18/2021 0930
	Matrix Surcharge	PFAS 537 mod with 1633 list	
202112260032	619 POOLE STREET		12/18/2021 0959
	Matrix Surcharge	PFAS 537 mod with 1633 list	
202112260033	OTHANA NAVY COMMUNITIES		12/18/2021 1015
	Matrix Surcharge	PFAS 537 mod with 1633 list	
202112260034	4999 KIDD COURT		12/18/2021 1050
	Matrix Surcharge	PFAS 537 mod with 1633 list	

Test Description

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

>> Select a Laboratory or Service Center <<
#N/A
#N/A
#N/A
##

Chain of Custody Record

976957 deb122621

eurofins | Environment Testing America

Regulatory Program: ☑ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact	Project Manager: Diana Felton	Site Contact:	Date:	COC No:
Hawaii Dept of Health	Email: diana.felton@doh.hawaii.gov	Lab Contact:	Carrier:	_____ of _____ COCs
2385 Waimano Home Rd #100	Tel/Fax: 530-386-1571			TALS Project #:
Pearl City, HI 96782	Analysis Turnaround Time			Sampler:
808-586-4249	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(xxx) xxx-xxxx FAX	TAT if different from Below ____5____			Walk-in Client:
Project Name: Red Hill 2021- PFAS	☐ 2 weeks			Lab Sampling:
Site:	☐ 1 week			
P O #	☐ 2 days			Job / SDG No.:
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Sample Specific Notes:
Radford Terrace Community Center(Murray Street)	12/18/21	0930	G	water		N	N	Fitness center outside spigot
619 Poole Street	12/18/21	0959	G	water		N	N	620 Poole Street outside spigot
Ohana Navy Communities	12/18/21	1015	G	water		N	N	outside spigot
4999 Kidd Court	12/18/21	1050	G	water		N	N	Bathroom sink outside spigot

320-83312 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 2.6 Corr'd: 2.6 | Therm ID No.: 1-01

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
S Watanabe	Hawaii Dept of Health	12/18/21 1223	[illegible]	Hawaii Dept of Health	12/18/21 1223
David Fawcett	Hawaii Dept of Health	12/21/21 1000	[illegible]	EFI	12/21/21 1000
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

to The lab 1025. DK

Form No. CA-C-WI-002, Rev. 4.35, dated 10/6/2020

eurofins | Eaton Analytical

Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Hits

Report: 976957
Project: NAVY
Group: RUSH Red Hill 2021 - PFAS 40
TA-SAC 5bd

State of Hawaii DOH
Diana Felton, MD
Hazard Evaluation and Emergency Response Office (HEER)
2385 Waimano Home Road
Pearl City, HI 96782

Samples Received on:
12/22/2021 1110

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL

SUMMARY OF POSITIVE DATA ONLY

eurofins | Eaton Analytical

Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Data

Report: 976957
Project: NAVY
Group: RUSH Red Hill 2021 - PFAS 40
TA-SAC 5bd

State of Hawaii DOH
Diana Felton, MD
Hazard Evaluation and Emergency Response Office (HEER)
2385 Waimano Home Road
Pearl City, HI 96782

Samples Received on:
12/22/2021 1110

Prepared	Analyzed	Prep Batch	Analyze Batch	Method	Analyte	Result	Units	MDL	MRL	Dilution
RADFORD TERRACE COMMUNITY CENTER (MURRAY STREET) (202112260031)							**Sampled on 12/18/2021 0930**			
	EPA 537 Modified - PFAS 537 mod with 1633 list									
	12/28/21 00:13			(EPA 537 Modified)	see attached	See Attached				1
619 POOLE STREET (202112260032)							**Sampled on 12/18/2021 0959**			
	EPA 537 Modified - PFAS 537 mod with 1633 list									
	12/28/21 00:23			(EPA 537 Modified)	see attached	See Attached				1
OTHANA NAVY COMMUNITIES (202112260033)							**Sampled on 12/18/2021 1015**			
	EPA 537 Modified - PFAS 537 mod with 1633 list									
	12/28/21 00:34			(EPA 537 Modified)	see attached	See Attached				1
4999 KIDD COURT (202112260034)							**Sampled on 12/18/2021 1050**			
	EPA 537 Modified - PFAS 537 mod with 1633 list									
	12/28/21 00:44			(EPA 537 Modified)	see attached	See Attached				1

ND - Analyte was not detected at the calculated MDL.
J - The analyte was either detected at or greater than the MDL and less than the MRL, or did not meet any one of the required QC criteria.
(c) - indicates calculated results. Analysis is a calculated result. Reported results are not rounded until the final step before reporting. Therefore methods that use a test result with further calculation may have slight differences in final result than the component analyses.

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Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Comments

Report: 976957
Project: NAVY
Group: RUSH Red Hill 2021 - PFAS 40
TA-SAC 5bd

State of Hawaii DOH
Diana Felton, MD
Hazard Evaluation and Emergency Response Office (HEER)
2385 Waimano Home Road
Pearl City, HI 96782

Folder Comments

Analytical results for PFAS by 537 modified are submitted by Eurofins TestAmerica, Sacramento, CA.

Sample receipt temperature:
3 coolers: 4.0, 2.8. 3.6 per Laura Turpen 12/23/21. Temperature noted for all 3 associated folders is 4.0 (highest of the 3 temperatures noted).
Associated folders: 976779, 976757, 976958

Sample Time:
202112260033 OTHANA NAVY COMMUNITIES
COC notes ti,e sampled as 10:15. The container label for this site indicates time sampled as 10:25, EEA Logged per COC. Testing requested is not time specific for Holding time but is calendar day specific. There is no impact due to this time discrepancy.

The Comments Report may be blank if there are no comments for this report.

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-83312-1
Client Project/Site: Folder# 976957, Job# 1000014

For:
Eurofins Eaton Analytical
750 Royal Oaks Drive
Suite 100
Monrovia, California 91016

Attn: Debbie Frank

Authorized for release by:
12/28/2021 10:18:50 AM

Linda C. Laver, Senior Project Manager
(916)374-4362
Linda.Laver@Eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 320-83312-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative
320-83312-1

Receipt
The samples were received on 12/22/2021 11:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8º C.

Receipt Exceptions
The Eurofins Eaton Chain-of-Custody (COC) was not received with these samples. Samples were initially logged in with client sample IDs. The Eaton COC was received via email on December 27, 2021 and sample IDs were changed to match Eaton's IDs: 202112260031 (320-83312-1), 202112260032 (320-83312-2), 202112260033 (320-83312-3) and 202112260034 (320-83312-4).

The container label lists the collection time 10:25 for the following sample, which does not match the time listed on the Chain-of-Custody (COC) as 10:15. Client confirmed in email on 12/26/21 that correct time is 10:15: 202112260033 (320-83312-3).

LCMS
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-554046.

Method 3535: The SOP is based on a 250 mL volume of sample, but the following samples were received in 500 mL bottle. A 250 mL aliquot was taken but the container could not be solvent rinsed, thus there is potential for a low biased result. Client was aware of this SOP deviation and approved the analyses. 202112260031 (320-83312-1), 202112260032 (320-83312-2), 202112260033 (320-83312-3) and 202112260034 (320-83312-4).
preparation batch 320-554046.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Eurofins Eaton Analytical
Project/Site: Folder# 976957, Job# 1000014

Job ID: 320-83312-1

Client Sample ID: 202112260031 — Lab Sample ID: 320-83312-1

No Detections.

Client Sample ID: 202112260032 — Lab Sample ID: 320-83312-2

No Detections.

Client Sample ID: 202112260033 — Lab Sample ID: 320-83312-3

No Detections.

Client Sample ID: 202112260034 — Lab Sample ID: 320-83312-4

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Eurofins Eaton Analytical
Project/Site: Folder# 976957, Job# 1000014

Job ID: 320-83312-1

Client Sample ID: 202112260031

Date Collected: 12/18/21 09:30
Date Received: 12/22/21 11:10

Lab Sample ID: 320-83312-1

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.9		ng/L		12/27/21 12:38	12/28/21 00:13	1
Perfluoropentanoic acid (PFPeA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
Perfluorohexanoic acid (PFHxA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
Perfluorodecanoic acid (PFDA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
Perfluorododecanoic acid (PFDoA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
Perfluorooctanesulfonamide (FOSA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
NMeFOSAA	ND		4.9		ng/L		12/27/21 12:38	12/28/21 00:13	1
NEtFOSAA	ND		4.9		ng/L		12/27/21 12:38	12/28/21 00:13	1
4:2 FTS	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
6:2 FTS	ND		4.9		ng/L		12/27/21 12:38	12/28/21 00:13	1
8:2 FTS	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
NEtFOSA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
NMeFOSA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
NMeFOSE	ND		4.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
NEtFOSE	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
9Cl-PF3ONS	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
HFPO-DA (GenX)	ND		4.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
11Cl-PF3OUdS	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
3:3 FTCA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
5:3 FTCA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
7:3 FTCA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
NFDHA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
PFMBA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
PFMPA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1
PFEESA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:13	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*66*		*25 - 150*	*12/27/21 12:38*	*12/28/21 00:13*	*1*
13C4 PFBA	*88*		*25 - 150*	*12/27/21 12:38*	*12/28/21 00:13*	*1*
13C5 PFPeA	*89*		*25 - 150*	*12/27/21 12:38*	*12/28/21 00:13*	*1*
13C2 PFHxA	*87*		*25 - 150*	*12/27/21 12:38*	*12/28/21 00:13*	*1*
13C4 PFHpA	*91*		*25 - 150*	*12/27/21 12:38*	*12/28/21 00:13*	*1*

Client: Eurofins Eaton Analytical
Project/Site: Folder# 976957, Job# 1000014

Job ID: 320-83312-1

Client Sample ID: 202112260031

Date Collected: 12/18/21 09:30
Date Received: 12/22/21 11:10

Lab Sample ID: 320-83312-1

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	99		25 - 150	12/27/21 12:38	12/28/21 00:13	1
13C5 PFNA	87		25 - 150	12/27/21 12:38	12/28/21 00:13	1
13C2 PFDA	85		25 - 150	12/27/21 12:38	12/28/21 00:13	1
13C2 PFUnA	90		25 - 150	12/27/21 12:38	12/28/21 00:13	1
13C2 PFDoA	92		25 - 150	12/27/21 12:38	12/28/21 00:13	1
13C2 PFTeDA	94		25 - 150	12/27/21 12:38	12/28/21 00:13	1
13C3 PFBS	90		25 - 150	12/27/21 12:38	12/28/21 00:13	1
18O2 PFHxS	92		25 - 150	12/27/21 12:38	12/28/21 00:13	1
13C4 PFOS	88		25 - 150	12/27/21 12:38	12/28/21 00:13	1
d3-NMeFOSAA	94		25 - 150	12/27/21 12:38	12/28/21 00:13	1
d5-NEtFOSAA	101		25 - 150	12/27/21 12:38	12/28/21 00:13	1
M2-4:2 FTS	94		25 - 150	12/27/21 12:38	12/28/21 00:13	1
M2-6:2 FTS	97		25 - 150	12/27/21 12:38	12/28/21 00:13	1
M2-8:2 FTS	83		25 - 150	12/27/21 12:38	12/28/21 00:13	1
d-N-MeFOSA-M	64		20 - 150	12/27/21 12:38	12/28/21 00:13	1
d-N-EtFOSA-M	66		20 - 150	12/27/21 12:38	12/28/21 00:13	1
d7-N-MeFOSE-M	95		10 - 120	12/27/21 12:38	12/28/21 00:13	1
d9-N-EtFOSE-M	94		10 - 120	12/27/21 12:38	12/28/21 00:13	1
13C3 HFPO-DA	84		25 - 150	12/27/21 12:38	12/28/21 00:13	1
13C-6:2 FTCA	109		25 - 150	12/27/21 12:38	12/28/21 00:13	1
13C-8:2 FTCA	97		25 - 150	12/27/21 12:38	12/28/21 00:13	1

Client Sample Results

Client: Eurofins Eaton Analytical
Project/Site: Folder# 976957, Job# 1000014

Job ID: 320-83312-1

Client Sample ID: 202112260032

Date Collected: 12/18/21 09:59
Date Received: 12/22/21 11:10

Lab Sample ID: 320-83312-2

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.9		ng/L		12/27/21 12:38	12/28/21 00:23	1
Perfluoropentanoic acid (PFPeA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
Perfluorohexanoic acid (PFHxA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
Perfluorodecanoic acid (PFDA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
Perfluorododecanoic acid (PFDoA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
Perfluorooctanesulfonamide (FOSA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
NMeFOSAA	ND		4.9		ng/L		12/27/21 12:38	12/28/21 00:23	1
NEtFOSAA	ND		4.9		ng/L		12/27/21 12:38	12/28/21 00:23	1
4:2 FTS	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
6:2 FTS	ND		4.9		ng/L		12/27/21 12:38	12/28/21 00:23	1
8:2 FTS	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
NEtFOSA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
NMeFOSA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
NMeFOSE	ND		3.9		ng/L		12/27/21 12:38	12/28/21 00:23	1
NEtFOSE	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
9Cl-PF3ONS	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
HFPO-DA (GenX)	ND		3.9		ng/L		12/27/21 12:38	12/28/21 00:23	1
11Cl-PF3OUdS	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
3:3 FTCA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
5:3 FTCA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
7:3 FTCA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
NFDHA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
PFMBA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
PFMPA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1
PFEESA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*70*		*25 - 150*	*12/27/21 12:38*	*12/28/21 00:23*	*1*
13C4 PFBA	*93*		*25 - 150*	*12/27/21 12:38*	*12/28/21 00:23*	*1*
13C5 PFPeA	*91*		*25 - 150*	*12/27/21 12:38*	*12/28/21 00:23*	*1*
13C2 PFHxA	*93*		*25 - 150*	*12/27/21 12:38*	*12/28/21 00:23*	*1*
13C4 PFHpA	*94*		*25 - 150*	*12/27/21 12:38*	*12/28/21 00:23*	*1*

Client Sample ID: 202112260032

Date Collected: 12/18/21 09:59
Date Received: 12/22/21 11:10

Lab Sample ID: 320-83312-2

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	101		25 - 150	12/27/21 12:38	12/28/21 00:23	1
13C5 PFNA	90		25 - 150	12/27/21 12:38	12/28/21 00:23	1
13C2 PFDA	96		25 - 150	12/27/21 12:38	12/28/21 00:23	1
13C2 PFUnA	92		25 - 150	12/27/21 12:38	12/28/21 00:23	1
13C2 PFDoA	96		25 - 150	12/27/21 12:38	12/28/21 00:23	1
13C2 PFTeDA	96		25 - 150	12/27/21 12:38	12/28/21 00:23	1
13C3 PFBS	101		25 - 150	12/27/21 12:38	12/28/21 00:23	1
18O2 PFHxS	91		25 - 150	12/27/21 12:38	12/28/21 00:23	1
13C4 PFOS	93		25 - 150	12/27/21 12:38	12/28/21 00:23	1
d3-NMeFOSAA	98		25 - 150	12/27/21 12:38	12/28/21 00:23	1
d5-NEtFOSAA	102		25 - 150	12/27/21 12:38	12/28/21 00:23	1
M2-4:2 FTS	94		25 - 150	12/27/21 12:38	12/28/21 00:23	1
M2-6:2 FTS	98		25 - 150	12/27/21 12:38	12/28/21 00:23	1
M2-8:2 FTS	102		25 - 150	12/27/21 12:38	12/28/21 00:23	1
d-N-MeFOSA-M	63		20 - 150	12/27/21 12:38	12/28/21 00:23	1
d-N-EtFOSA-M	70		20 - 150	12/27/21 12:38	12/28/21 00:23	1
d7-N-MeFOSE-M	98		10 - 120	12/27/21 12:38	12/28/21 00:23	1
d9-N-EtFOSE-M	96		10 - 120	12/27/21 12:38	12/28/21 00:23	1
13C3 HFPO-DA	88		25 - 150	12/27/21 12:38	12/28/21 00:23	1
13C-6:2 FTCA	110		25 - 150	12/27/21 12:38	12/28/21 00:23	1
13C-8:2 FTCA	102		25 - 150	12/27/21 12:38	12/28/21 00:23	1

Client Sample Results

Client: Eurofins Eaton Analytical
Project/Site: Folder# 976957, Job# 1000014

Job ID: 320-83312-1

Client Sample ID: 202112260033

Date Collected: 12/18/21 10:15
Date Received: 12/22/21 11:10

Lab Sample ID: 320-83312-3

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
Perfluoropentanoic acid (PFPeA)	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
Perfluorohexanoic acid (PFHxA)	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
Perfluoroheptanoic acid (PFHpA)	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
Perfluorooctanoic acid (PFOA)	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
Perfluorononanoic acid (PFNA)	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
Perfluorodecanoic acid (PFDA)	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
Perfluorododecanoic acid (PFDoA)	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
Perfluorotridecanoic acid (PFTrDA)	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
Perfluoropentanesulfonic acid (PFPeS)	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
Perfluorononanesulfonic acid (PFNS)	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
NMeFOSAA	ND		4.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
NEtFOSAA	ND		4.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
4:2 FTS	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
6:2 FTS	ND		4.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
8:2 FTS	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
NEtFOSA	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
NMeFOSA	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
NMeFOSE	ND		3.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
NEtFOSE	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
9Cl-PF3ONS	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
HFPO-DA (GenX)	ND		3.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
11Cl-PF3OUdS	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
3:3 FTCA	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
5:3 FTCA	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
7:3 FTCA	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
NFDHA	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
PFMBA	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
PFMPA	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1
PFEESA	ND		1.9		ng/L		12/27/21 12:38	12/28/21 00:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*73*		*25 - 150*	*12/27/21 12:38*	*12/28/21 00:34*	*1*
13C4 PFBA	*105*		*25 - 150*	*12/27/21 12:38*	*12/28/21 00:34*	*1*
13C5 PFPeA	*98*		*25 - 150*	*12/27/21 12:38*	*12/28/21 00:34*	*1*
13C2 PFHxA	*100*		*25 - 150*	*12/27/21 12:38*	*12/28/21 00:34*	*1*
13C4 PFHpA	*107*		*25 - 150*	*12/27/21 12:38*	*12/28/21 00:34*	*1*

Client Sample ID: 202112260033

Lab Sample ID: 320-83312-3

Date Collected: 12/18/21 10:15

Matrix: Water

Date Received: 12/22/21 11:10

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	110		25 - 150	12/27/21 12:38	12/28/21 00:34	1
13C5 PFNA	104		25 - 150	12/27/21 12:38	12/28/21 00:34	1
13C2 PFDA	97		25 - 150	12/27/21 12:38	12/28/21 00:34	1
13C2 PFUnA	102		25 - 150	12/27/21 12:38	12/28/21 00:34	1
13C2 PFDoA	100		25 - 150	12/27/21 12:38	12/28/21 00:34	1
13C2 PFTeDA	101		25 - 150	12/27/21 12:38	12/28/21 00:34	1
13C3 PFBS	107		25 - 150	12/27/21 12:38	12/28/21 00:34	1
18O2 PFHxS	113		25 - 150	12/27/21 12:38	12/28/21 00:34	1
13C4 PFOS	101		25 - 150	12/27/21 12:38	12/28/21 00:34	1
d3-NMeFOSAA	111		25 - 150	12/27/21 12:38	12/28/21 00:34	1
d5-NEtFOSAA	111		25 - 150	12/27/21 12:38	12/28/21 00:34	1
M2-4:2 FTS	97		25 - 150	12/27/21 12:38	12/28/21 00:34	1
M2-6:2 FTS	98		25 - 150	12/27/21 12:38	12/28/21 00:34	1
M2-8:2 FTS	101		25 - 150	12/27/21 12:38	12/28/21 00:34	1
d-N-MeFOSA-M	72		20 - 150	12/27/21 12:38	12/28/21 00:34	1
d-N-EtFOSA-M	74		20 - 150	12/27/21 12:38	12/28/21 00:34	1
d7-N-MeFOSE-M	106		10 - 120	12/27/21 12:38	12/28/21 00:34	1
d9-N-EtFOSE-M	105		10 - 120	12/27/21 12:38	12/28/21 00:34	1
13C3 HFPO-DA	93		25 - 150	12/27/21 12:38	12/28/21 00:34	1
13C-6:2 FTCA	122		25 - 150	12/27/21 12:38	12/28/21 00:34	1
13C-8:2 FTCA	113		25 - 150	12/27/21 12:38	12/28/21 00:34	1

Client Sample Results

Client: Eurofins Eaton Analytical
Project/Site: Folder# 976957, Job# 1000014

Job ID: 320-83312-1

Client Sample ID: 202112260034

Date Collected: 12/18/21 10:50
Date Received: 12/22/21 11:10

Lab Sample ID: 320-83312-4

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.9		ng/L		12/27/21 12:38	12/28/21 00:44	1
Perfluoropentanoic acid (PFPeA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
Perfluorohexanoic acid (PFHxA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
Perfluorodecanoic acid (PFDA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
Perfluorododecanoic acid (PFDoA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
Perfluorooctanesulfonamide (FOSA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
NMeFOSAA	ND		4.9		ng/L		12/27/21 12:38	12/28/21 00:44	1
NEtFOSAA	ND		4.9		ng/L		12/27/21 12:38	12/28/21 00:44	1
4:2 FTS	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
6:2 FTS	ND		4.9		ng/L		12/27/21 12:38	12/28/21 00:44	1
8:2 FTS	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
NEtFOSA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
NMeFOSA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
NMeFOSE	ND		3.9		ng/L		12/27/21 12:38	12/28/21 00:44	1
NEtFOSE	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
9Cl-PF3ONS	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
HFPO-DA (GenX)	ND		3.9		ng/L		12/27/21 12:38	12/28/21 00:44	1
11Cl-PF3OUdS	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
3:3 FTCA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
5:3 FTCA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
7:3 FTCA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
NFDHA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
PFMBA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
PFMPA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1
PFEESA	ND		2.0		ng/L		12/27/21 12:38	12/28/21 00:44	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*79*		*25 - 150*	*12/27/21 12:38*	*12/28/21 00:44*	*1*
13C4 PFBA	*104*		*25 - 150*	*12/27/21 12:38*	*12/28/21 00:44*	*1*
13C5 PFPeA	*112*		*25 - 150*	*12/27/21 12:38*	*12/28/21 00:44*	*1*
13C2 PFHxA	*107*		*25 - 150*	*12/27/21 12:38*	*12/28/21 00:44*	*1*
13C4 PFHpA	*114*		*25 - 150*	*12/27/21 12:38*	*12/28/21 00:44*	*1*

Client Sample ID: 202112260034

Date Collected: 12/18/21 10:50
Date Received: 12/22/21 11:10

Lab Sample ID: 320-83312-4

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOA	118		25 - 150	12/27/21 12:38	12/28/21 00:44	1
13C5 PFNA	94		25 - 150	12/27/21 12:38	12/28/21 00:44	1
13C2 PFDA	106		25 - 150	12/27/21 12:38	12/28/21 00:44	1
13C2 PFUnA	112		25 - 150	12/27/21 12:38	12/28/21 00:44	1
13C2 PFDoA	111		25 - 150	12/27/21 12:38	12/28/21 00:44	1
13C2 PFTeDA	112		25 - 150	12/27/21 12:38	12/28/21 00:44	1
13C3 PFBS	113		25 - 150	12/27/21 12:38	12/28/21 00:44	1
18O2 PFHxS	115		25 - 150	12/27/21 12:38	12/28/21 00:44	1
13C4 PFOS	100		25 - 150	12/27/21 12:38	12/28/21 00:44	1
d3-NMeFOSAA	108		25 - 150	12/27/21 12:38	12/28/21 00:44	1
d5-NEtFOSAA	118		25 - 150	12/27/21 12:38	12/28/21 00:44	1
M2-4:2 FTS	108		25 - 150	12/27/21 12:38	12/28/21 00:44	1
M2-6:2 FTS	113		25 - 150	12/27/21 12:38	12/28/21 00:44	1
M2-8:2 FTS	115		25 - 150	12/27/21 12:38	12/28/21 00:44	1
d-N-MeFOSA-M	70		20 - 150	12/27/21 12:38	12/28/21 00:44	1
d-N-EtFOSA-M	73		20 - 150	12/27/21 12:38	12/28/21 00:44	1
d7-N-MeFOSE-M	109		10 - 120	12/27/21 12:38	12/28/21 00:44	1
d9-N-EtFOSE-M	110		10 - 120	12/27/21 12:38	12/28/21 00:44	1
13C3 HFPO-DA	95		25 - 150	12/27/21 12:38	12/28/21 00:44	1
13C-6:2 FTCA	127		25 - 150	12/27/21 12:38	12/28/21 00:44	1
13C-8:2 FTCA	116		25 - 150	12/27/21 12:38	12/28/21 00:44	1

Isotope Dilution Summary

Client: Eurofins Eaton Analytical
Project/Site: Folder# 976957, Job# 1000014

Job ID: 320-83312-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (25-150)	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)
320-83312-1	202112260031	66	88	89	87	91	99	87	85
320-83312-2	202112260032	70	93	91	93	94	101	90	96
320-83312-3	202112260033	73	105	98	100	107	110	104	97
320-83312-4	202112260034	79	104	112	107	114	118	94	106
LCS 320-554046/2-A	Lab Control Sample	79	105	105	103	105	112	103	103
LCSD 320-554046/3-A	Lab Control Sample Dup	65	85	84	90	91	95	88	85
MB 320-554046/1-A	Method Blank	81	102	110	97	106	110	106	104

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFUnA (25-150)	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
320-83312-1	202112260031	90	92	94	90	92	88	94	101
320-83312-2	202112260032	92	96	96	101	91	93	98	102
320-83312-3	202112260033	102	100	101	107	113	101	111	111
320-83312-4	202112260034	112	111	112	113	115	100	108	118
LCS 320-554046/2-A	Lab Control Sample	106	106	107	113	100	103	102	121
LCSD 320-554046/3-A	Lab Control Sample Dup	94	95	93	99	90	90	90	98
MB 320-554046/1-A	Method Blank	106	111	106	110	110	101	114	111

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	dMeFOSA (20-150)	dEtFOSA (20-150)	NMFM (10-120)	NEFM (10-120)	HFPODA (25-150)
320-83312-1	202112260031	94	97	83	64	66	95	94	84
320-83312-2	202112260032	94	98	102	63	70	98	96	88
320-83312-3	202112260033	97	98	101	72	74	106	105	93
320-83312-4	202112260034	108	113	115	70	73	109	110	95
LCS 320-554046/2-A	Lab Control Sample	92	107	100	76	78	108	106	98
LCSD 320-554046/3-A	Lab Control Sample Dup	81	87	90	63	69	89	91	80
MB 320-554046/1-A	Method Blank	100	100	101	80	83	115	108	97

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	MFHEA (25-150)	MFOEA (25-150)
320-83312-1	202112260031	109	97
320-83312-2	202112260032	110	102
320-83312-3	202112260033	122	113
320-83312-4	202112260034	127	116
LCS 320-554046/2-A	Lab Control Sample	122	99
LCSD 320-554046/3-A	Lab Control Sample Dup	103	96
MB 320-554046/1-A	Method Blank	122	113

Surrogate Legend

PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA

Isotope Dilution Summary

Client: Eurofins Eaton Analytical
Job ID: 320-83312-1
Project/Site: Folder# 976957, Job# 1000014

PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
dMeFOSA = d-N-MeFOSA-M
dEtFOSA = d-N-EtFOSA-M
NMFM = d7-N-MeFOSE-M
NEFM = d9-N-EtFOSE-M
HFPODA = 13C3 HFPO-DA
MFHEA = 13C-6:2 FTCA
MFOEA = 13C-8:2 FTCA

QC Sample Results

Client: Eurofins Eaton Analytical
Project/Site: Folder# 976957, Job# 1000014

Job ID: 320-83312-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-554046/1-A
Matrix: Water
Analysis Batch: 554196

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 554046

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		5.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
Perfluoropentanoic acid (PFPeA)	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
Perfluorohexanoic acid (PFHxA)	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
Perfluorooctanoic acid (PFOA)	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
Perfluorononanoic acid (PFNA)	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
Perfluorodecanoic acid (PFDA)	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
Perfluorododecanoic acid (PFDoA)	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
Perfluorotridecanoic acid (PFTrDA)	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
Perfluoropentanesulfonic acid (PFPeS)	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
Perfluorononanesulfonic acid (PFNS)	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
Perfluorooctanesulfonamide (FOSA)	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
NMeFOSAA	ND		5.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
NEtFOSAA	ND		5.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
4:2 FTS	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
6:2 FTS	ND		5.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
8:2 FTS	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
NEtFOSA	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
NMeFOSA	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
NMeFOSE	ND		4.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
NEtFOSE	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
9Cl-PF3ONS	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
HFPO-DA (GenX)	ND		4.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
11Cl-PF3OUdS	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
3:3 FTCA	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
5:3 FTCA	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
7:3 FTCA	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
NFDHA	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
PFMBA	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
PFMPA	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1
PFEESA	ND		2.0		ng/L		12/27/21 12:38	12/27/21 23:42	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*81*		*25 - 150*	*12/27/21 12:38*	*12/27/21 23:42*	*1*
13C4 PFBA	*102*		*25 - 150*	*12/27/21 12:38*	*12/27/21 23:42*	*1*
13C5 PFPeA	*110*		*25 - 150*	*12/27/21 12:38*	*12/27/21 23:42*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-554046/1-A
Matrix: Water
Analysis Batch: 554196

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 554046

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		25 - 150	12/27/21 12:38	12/27/21 23:42	1
13C4 PFHpA	106		25 - 150	12/27/21 12:38	12/27/21 23:42	1
13C4 PFOA	110		25 - 150	12/27/21 12:38	12/27/21 23:42	1
13C5 PFNA	106		25 - 150	12/27/21 12:38	12/27/21 23:42	1
13C2 PFDA	104		25 - 150	12/27/21 12:38	12/27/21 23:42	1
13C2 PFUnA	106		25 - 150	12/27/21 12:38	12/27/21 23:42	1
13C2 PFDoA	111		25 - 150	12/27/21 12:38	12/27/21 23:42	1
13C2 PFTeDA	106		25 - 150	12/27/21 12:38	12/27/21 23:42	1
13C3 PFBS	110		25 - 150	12/27/21 12:38	12/27/21 23:42	1
18O2 PFHxS	110		25 - 150	12/27/21 12:38	12/27/21 23:42	1
13C4 PFOS	101		25 - 150	12/27/21 12:38	12/27/21 23:42	1
d3-NMeFOSAA	114		25 - 150	12/27/21 12:38	12/27/21 23:42	1
d5-NEtFOSAA	111		25 - 150	12/27/21 12:38	12/27/21 23:42	1
M2-4:2 FTS	100		25 - 150	12/27/21 12:38	12/27/21 23:42	1
M2-6:2 FTS	100		25 - 150	12/27/21 12:38	12/27/21 23:42	1
M2-8:2 FTS	101		25 - 150	12/27/21 12:38	12/27/21 23:42	1
d-N-MeFOSA-M	80		20 - 150	12/27/21 12:38	12/27/21 23:42	1
d-N-EtFOSA-M	83		20 - 150	12/27/21 12:38	12/27/21 23:42	1
d7-N-MeFOSE-M	115		10 - 120	12/27/21 12:38	12/27/21 23:42	1
d9-N-EtFOSE-M	108		10 - 120	12/27/21 12:38	12/27/21 23:42	1
13C3 HFPO-DA	97		25 - 150	12/27/21 12:38	12/27/21 23:42	1
13C-6:2 FTCA	122		25 - 150	12/27/21 12:38	12/27/21 23:42	1
13C-8:2 FTCA	113		25 - 150	12/27/21 12:38	12/27/21 23:42	1

Lab Sample ID: LCS 320-554046/2-A
Matrix: Water
Analysis Batch: 554196

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 554046

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	37.5		ng/L		94	76 - 136
Perfluoropentanoic acid (PFPeA)	40.0	31.1		ng/L		78	71 - 131
Perfluorohexanoic acid (PFHxA)	40.0	34.8		ng/L		87	73 - 133
Perfluoroheptanoic acid (PFHpA)	40.0	35.1		ng/L		88	72 - 132
Perfluorooctanoic acid (PFOA)	40.0	30.2		ng/L		76	70 - 130
Perfluorononanoic acid (PFNA)	40.0	35.7		ng/L		89	75 - 135
Perfluorodecanoic acid (PFDA)	40.0	34.1		ng/L		85	76 - 136
Perfluoroundecanoic acid (PFUnA)	40.0	35.0		ng/L		88	68 - 128
Perfluorododecanoic acid (PFDoA)	40.0	36.8		ng/L		92	71 - 131
Perfluorotridecanoic acid (PFTrDA)	40.0	36.4		ng/L		91	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	31.5		ng/L		79	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	27.6		ng/L		78	67 - 127
Perfluoropentanesulfonic acid (PFPeS)	37.5	29.6		ng/L		79	66 - 126
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.0		ng/L		91	59 - 119

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-554046/2-A
Matrix: Water
Analysis Batch: 554196

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 554046

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	31.8		ng/L		84	76 - 136
Perfluorooctanesulfonic acid (PFOS)	37.1	33.6		ng/L		90	70 - 130
Perfluorononanesulfonic acid (PFNS)	38.4	32.8		ng/L		86	75 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	34.9		ng/L		91	71 - 131
Perfluorododecanesulfonic acid (PFDoS)	38.7	33.5		ng/L		86	67 - 127
Perfluorooctanesulfonamide (FOSA)	40.0	44.8		ng/L		112	73 - 133
NMeFOSAA	40.0	37.1		ng/L		93	76 - 136
NEtFOSAA	40.0	34.8		ng/L		87	76 - 136
4:2 FTS	37.4	35.0		ng/L		94	79 - 139
6:2 FTS	37.9	36.2		ng/L		95	59 - 175
8:2 FTS	38.3	35.0		ng/L		91	75 - 135
NEtFOSA	40.0	35.3		ng/L		88	78 - 138
NMeFOSA	40.0	38.8		ng/L		97	67 - 154
NMeFOSE	40.0	34.7		ng/L		87	70 - 130
NEtFOSE	40.0	33.9		ng/L		85	71 - 131
9Cl-PF3ONS	37.3	30.8		ng/L		83	75 - 135
HFPO-DA (GenX)	40.0	33.9		ng/L		85	51 - 173
11Cl-PF3OUdS	37.7	33.8		ng/L		90	54 - 114
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	33.9		ng/L		90	79 - 139
3:3 FTCA	40.0	32.7		ng/L		82	70 - 130
5:3 FTCA	40.0	30.2		ng/L		76	70 - 130
7:3 FTCA	40.0	37.3		ng/L		93	70 - 130
NFDHA	40.0	35.3		ng/L		88	70 - 130
PFMBA	40.0	32.6		ng/L		82	70 - 130
PFMPA	40.0	35.4		ng/L		88	70 - 130
PFEESA	35.6	27.4		ng/L		77	70 - 130

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 FOSA	*79*		*25 - 150*
13C4 PFBA	*105*		*25 - 150*
13C5 PFPeA	*105*		*25 - 150*
13C2 PFHxA	*103*		*25 - 150*
13C4 PFHpA	*105*		*25 - 150*
13C4 PFOA	*112*		*25 - 150*
13C5 PFNA	*103*		*25 - 150*
13C2 PFDA	*103*		*25 - 150*
13C2 PFUnA	*106*		*25 - 150*
13C2 PFDoA	*106*		*25 - 150*
13C2 PFTeDA	*107*		*25 - 150*
13C3 PFBS	*113*		*25 - 150*
18O2 PFHxS	*100*		*25 - 150*
13C4 PFOS	*103*		*25 - 150*
d3-NMeFOSAA	*102*		*25 - 150*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-554046/2-A
Matrix: Water
Analysis Batch: 554196

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 554046

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*121*		*25 - 150*
M2-4:2 FTS	*92*		*25 - 150*
M2-6:2 FTS	*107*		*25 - 150*
M2-8:2 FTS	*100*		*25 - 150*
d-N-MeFOSA-M	*76*		*20 - 150*
d-N-EtFOSA-M	*78*		*20 - 150*
d7-N-MeFOSE-M	*108*		*10 - 120*
d9-N-EtFOSE-M	*106*		*10 - 120*
13C3 HFPO-DA	*98*		*25 - 150*
13C-6:2 FTCA	*122*		*25 - 150*
13C-8:2 FTCA	*99*		*25 - 150*

Lab Sample ID: LCSD 320-554046/3-A
Matrix: Water
Analysis Batch: 554196

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 554046

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	40.0	37.9		ng/L		95	76 - 136	1	30
Perfluoropentanoic acid (PFPeA)	40.0	33.1		ng/L		83	71 - 131	6	30
Perfluorohexanoic acid (PFHxA)	40.0	36.2		ng/L		91	73 - 133	4	30
Perfluoroheptanoic acid (PFHpA)	40.0	36.6		ng/L		92	72 - 132	4	30
Perfluorooctanoic acid (PFOA)	40.0	34.0		ng/L		85	70 - 130	12	30
Perfluorononanoic acid (PFNA)	40.0	36.4		ng/L		91	75 - 135	2	30
Perfluorodecanoic acid (PFDA)	40.0	38.3		ng/L		96	76 - 136	12	30
Perfluoroundecanoic acid (PFUnA)	40.0	35.0		ng/L		88	68 - 128	0	30
Perfluorododecanoic acid (PFDoA)	40.0	38.3		ng/L		96	71 - 131	4	30
Perfluorotridecanoic acid (PFTrDA)	40.0	37.6		ng/L		94	71 - 131	3	30
Perfluorotetradecanoic acid (PFTeA)	40.0	36.6		ng/L		91	70 - 130	15	30
Perfluorobutanesulfonic acid (PFBS)	35.4	28.3		ng/L		80	67 - 127	3	30
Perfluoropentanesulfonic acid (PFPeS)	37.5	30.2		ng/L		80	66 - 126	2	30
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.1		ng/L		91	59 - 119	0	30
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	35.9		ng/L		94	76 - 136	12	30
Perfluorooctanesulfonic acid (PFOS)	37.1	33.7		ng/L		91	70 - 130	0	30
Perfluorononanesulfonic acid (PFNS)	38.4	34.3		ng/L		89	75 - 135	4	30
Perfluorodecanesulfonic acid (PFDS)	38.6	36.0		ng/L		93	71 - 131	3	30
Perfluorododecanesulfonic acid (PFDoS)	38.7	33.9		ng/L		88	67 - 127	1	30
Perfluorooctanesulfonamide (FOSA)	40.0	47.9		ng/L		120	73 - 133	7	30
NMeFOSAA	40.0	36.3		ng/L		91	76 - 136	2	30
NEtFOSAA	40.0	38.1		ng/L		95	76 - 136	9	30

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-554046/3-A
Matrix: Water
Analysis Batch: 554196

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 554046

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4:2 FTS			37.4	39.8		ng/L		106	79 - 139	13	30
6:2 FTS			37.9	38.7		ng/L		102	59 - 175	7	30
8:2 FTS			38.3	31.6		ng/L		82	75 - 135	10	30
NEtFOSA			40.0	37.1		ng/L		93	78 - 138	5	30
NMeFOSA			40.0	39.4		ng/L		98	67 - 154	2	30
NMeFOSE			40.0	37.4		ng/L		94	70 - 130	8	30
NEtFOSE			40.0	35.5		ng/L		89	71 - 131	4	30
9Cl-PF3ONS			37.3	33.0		ng/L		88	75 - 135	7	30
HFPO-DA (GenX)			40.0	38.1		ng/L		95	51 - 173	12	30
11Cl-PF3OUdS			37.7	34.2		ng/L		91	54 - 114	1	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)			37.7	37.4		ng/L		99	79 - 139	10	30
3:3 FTCA			40.0	34.0		ng/L		85	70 - 130	4	30
5:3 FTCA			40.0	30.9		ng/L		77	70 - 130	2	30
7:3 FTCA			40.0	36.3		ng/L		91	70 - 130	3	30
NFDHA			40.0	35.6		ng/L		89	70 - 130	1	30
PFMBA			40.0	35.1		ng/L		88	70 - 130	7	30
PFMPA			40.0	39.2		ng/L		98	70 - 130	10	30
PFEESA			35.6	28.9		ng/L		81	70 - 130	5	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C8 FOSA	*65*		*25 - 150*
13C4 PFBA	*85*		*25 - 150*
13C5 PFPeA	*84*		*25 - 150*
13C2 PFHxA	*90*		*25 - 150*
13C4 PFHpA	*91*		*25 - 150*
13C4 PFOA	*95*		*25 - 150*
13C5 PFNA	*88*		*25 - 150*
13C2 PFDA	*85*		*25 - 150*
13C2 PFUnA	*94*		*25 - 150*
13C2 PFDoA	*95*		*25 - 150*
13C2 PFTeDA	*93*		*25 - 150*
13C3 PFBS	*99*		*25 - 150*
18O2 PFHxS	*90*		*25 - 150*
13C4 PFOS	*90*		*25 - 150*
d3-NMeFOSAA	*90*		*25 - 150*
d5-NEtFOSAA	*98*		*25 - 150*
M2-4:2 FTS	*81*		*25 - 150*
M2-6:2 FTS	*87*		*25 - 150*
M2-8:2 FTS	*90*		*25 - 150*
d-N-MeFOSA-M	*63*		*20 - 150*
d-N-EtFOSA-M	*69*		*20 - 150*
d7-N-MeFOSE-M	*89*		*10 - 120*
d9-N-EtFOSE-M	*91*		*10 - 120*
13C3 HFPO-DA	*80*		*25 - 150*
13C-6:2 FTCA	*103*		*25 - 150*
13C-8:2 FTCA	*96*		*25 - 150*

QC Association Summary

Client: Eurofins Eaton Analytical
Project/Site: Folder# 976957, Job# 1000014

Job ID: 320-83312-1

LCMS

Prep Batch: 554046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83312-1	202112260031	Total/NA	Water	3535	
320-83312-2	202112260032	Total/NA	Water	3535	
320-83312-3	202112260033	Total/NA	Water	3535	
320-83312-4	202112260034	Total/NA	Water	3535	
MB 320-554046/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-554046/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-554046/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 554196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-83312-1	202112260031	Total/NA	Water	537 (modified)	554046
320-83312-2	202112260032	Total/NA	Water	537 (modified)	554046
320-83312-3	202112260033	Total/NA	Water	537 (modified)	554046
320-83312-4	202112260034	Total/NA	Water	537 (modified)	554046
MB 320-554046/1-A	Method Blank	Total/NA	Water	537 (modified)	554046
LCS 320-554046/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	554046
LCSD 320-554046/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	554046

Lab Chronicle

Client: Eurofins Eaton Analytical
Project/Site: Folder# 976957, Job# 1000014

Job ID: 320-83312-1

Client Sample ID: 202112260031 — Lab Sample ID: 320-83312-1

Date Collected: 12/18/21 09:30 — **Matrix: Water**
Date Received: 12/22/21 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			252.7 mL	10.0 mL	554046	12/27/21 12:38	KJW	TAL SAC
Total/NA	Analysis	537 (modified)		1			554196	12/28/21 00:13	RS1	TAL SAC

Client Sample ID: 202112260032 — Lab Sample ID: 320-83312-2

Date Collected: 12/18/21 09:59 — **Matrix: Water**
Date Received: 12/22/21 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			254.8 mL	10.0 mL	554046	12/27/21 12:38	KJW	TAL SAC
Total/NA	Analysis	537 (modified)		1			554196	12/28/21 00:23	RS1	TAL SAC

Client Sample ID: 202112260033 — Lab Sample ID: 320-83312-3

Date Collected: 12/18/21 10:15 — **Matrix: Water**
Date Received: 12/22/21 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256.6 mL	10.0 mL	554046	12/27/21 12:38	KJW	TAL SAC
Total/NA	Analysis	537 (modified)		1			554196	12/28/21 00:34	RS1	TAL SAC

Client Sample ID: 202112260034 — Lab Sample ID: 320-83312-4

Date Collected: 12/18/21 10:50 — **Matrix: Water**
Date Received: 12/22/21 11:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			255.7 mL	10.0 mL	554046	12/27/21 12:38	KJW	TAL SAC
Total/NA	Analysis	537 (modified)		1			554196	12/28/21 00:44	RS1	TAL SAC

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Eurofins Eaton Analytical
Project/Site: Folder# 976957, Job# 1000014

Job ID: 320-83312-1

Laboratory: Eurofins TestAmerica, Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Hawaii	State	<cert No.>	01-29-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537 (modified)	3535	Water	11Cl-PF3OUdS
537 (modified)	3535	Water	3:3 FTCA
537 (modified)	3535	Water	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)
537 (modified)	3535	Water	4:2 FTS
537 (modified)	3535	Water	5:3 FTCA
537 (modified)	3535	Water	6:2 FTS
537 (modified)	3535	Water	7:3 FTCA
537 (modified)	3535	Water	8:2 FTS
537 (modified)	3535	Water	9Cl-PF3ONS
537 (modified)	3535	Water	HFPO-DA (GenX)
537 (modified)	3535	Water	NEtFOSA
537 (modified)	3535	Water	NEtFOSAA
537 (modified)	3535	Water	NEtFOSE
537 (modified)	3535	Water	NFDHA
537 (modified)	3535	Water	NMeFOSA
537 (modified)	3535	Water	NMeFOSAA
537 (modified)	3535	Water	NMeFOSE
537 (modified)	3535	Water	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	3535	Water	Perfluorobutanoic acid (PFBA)
537 (modified)	3535	Water	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	3535	Water	Perfluorodecanoic acid (PFDA)
537 (modified)	3535	Water	Perfluorododecanesulfonic acid (PFDoS)
537 (modified)	3535	Water	Perfluorododecanoic acid (PFDoA)
537 (modified)	3535	Water	Perfluoroheptanesulfonic Acid (PFHpS)
537 (modified)	3535	Water	Perfluoroheptanoic acid (PFHpA)
537 (modified)	3535	Water	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	3535	Water	Perfluorohexanoic acid (PFHxA)
537 (modified)	3535	Water	Perfluorononanesulfonic acid (PFNS)
537 (modified)	3535	Water	Perfluorononanoic acid (PFNA)
537 (modified)	3535	Water	Perfluorooctanesulfonamide (FOSA)
537 (modified)	3535	Water	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	3535	Water	Perfluorooctanoic acid (PFOA)
537 (modified)	3535	Water	Perfluoropentanesulfonic acid (PFPeS)
537 (modified)	3535	Water	Perfluoropentanoic acid (PFPeA)
537 (modified)	3535	Water	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	3535	Water	Perfluorotridecanoic acid (PFTrDA)
537 (modified)	3535	Water	Perfluoroundecanoic acid (PFUnA)
537 (modified)	3535	Water	PFEESA
537 (modified)	3535	Water	PFMBA
537 (modified)	3535	Water	PFMPA

Method Summary

Client: Eurofins Eaton Analytical
Project/Site: Folder# 976957, Job# 1000014

Job ID: 320-83312-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Eurofins Eaton Analytical
Project/Site: Folder# 976957, Job# 1000014

Job ID: 320-83312-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-83312-1	202112260031	Water	12/18/21 09:30	12/22/21 11:10
320-83312-2	202112260032	Water	12/18/21 09:59	12/22/21 11:10
320-83312-3	202112260033	Water	12/18/21 10:15	12/22/21 11:10
320-83312-4	202112260034	Water	12/18/21 10:50	12/22/21 11:10

eurofins | Eaton Analytical

Submittal Form

Date: 12/27/2021

REPORTING REQUIRMENTS:** ***Do Not Combine Reports with any other samples submitted under different Folder Numbers!
Report & Invoice must have the Folder # **976957** Job # **1000014**

Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature.

Ship To:
`Test America, Inc - Sacramento
880 Riverside Parkway

West Sacramento, CA 95605-1501

Phone: 916-373-5600 Fax: 916-372-7768

Reports: Jackie Contreras Sub-Contracting Administrator
EMAIL TO: Eaton-MonroviaSubContract@eurofinset.com
Eurofins Eaton Analytical, LLC 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016
Phone (626) 386-1165 Fax (626) 386-1122
Invoices to: Eurofins Eaton Analytical, LLC
Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605

Provide in each Report the Specified StateCertification # and Exp Date for requested tests + matrix.

Samples from: **HAWAII**

Folder #: **976957**
Report Due: **01/07/2022**

Sample ID	*Client Sample ID for reference onl*	Sample Date & Time	Matrix	Clip Code	PWSID
202112260031	RADFORD TERRACE COMMUNITY CENTER (MURRAY STREET)	12/18/21 0930	DW		JLS

Sample type:	Sample Event:	Facility ID:	Sample Point ID:	Static ID:

Method	Prep Method	Analysis Requested
EPA 537 Modified		PFAS 537 mod with 1633 list

Sample ID	*Client Sample ID for reference onl*	Sample Date & Time	Matrix	Clip Code	PWSID
202112260032	619 POOLE STREET	12/18/21 0959	DW		JLS

Sample type:	Sample Event:	Facility ID:	Sample Point ID:	Static ID:

Method	Prep Method	Analysis Requested
EPA 537 Modified		PFAS 537 mod with 1633 list

Sample ID	*Client Sample ID for reference onl*	Sample Date & Time	Matrix	Clip Code	PWSID
202112260033	OTHANA NAVY COMMUNITIES	12/18/21 1015	DW		JLS

Sample type:	Sample Event:	Facility ID:	Sample Point ID:	Static ID:

Method	Prep Method	Analysis Requested
EPA 537 Modified		PFAS 537 mod with 1633 list

Relinquished by: Sample Control Date _____ Time _____
Received by: _____ Date _____ Time _____
Relinquished by: Sample Control Date _____ Time _____
Received by: _____ Date _____ Time _____

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

Sample ID	Client Sample ID for reference onl	Sample Date & Time	Matrix	Clip Code	PWSID
202112260034	4999 KIDD COURT	12/18/21 1050	DW		JLS

Sample type:	Sample Event:	Facility ID:	Sample Point ID:	Static ID:

Method	Prep Method	Analysis Requested
EPA 537 Modified		PFAS 537 mod with 1633 list

Relinquished by: Sample Control Date _____ Time _____

Received by: _____ Date _____ Time _____

Relinquished by: Sample Control Date _____ Time _____

Received by: _____ Date _____ Time _____

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

>> Select a Laboratory or Service Center <<

#N/A
#N/A
#N/A
##

Chain of Custody Record

eurofins Environment Testing America

Regulatory Program: ☑ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact	Project Manager: Diana Felton	Site Contact:	Date:	COC No:
Hawaii Dept of Health	Email: diana.felton@doh.hawaii.gov	Lab Contact:	Carrier:	____ of ____ COCs
2385 Waimano Home Rd #100	Tel/Fax: 530-386-1571			TALS Project #:
Pearl City, HI 96782	Analysis Turnaround Time			Sampler:
808-586-4249	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
(xxx) xxx-xxxx FAX	TAT if different from Below ____5____			Walk-in Client:
Project Name: Red Hill 2021- PFAS	☐ 2 weeks			Lab Sampling:
Site:	☐ 1 week			
P O #	☐ 2 days			Job / SDG No.:
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Sample Specific Notes:
Radford Terrace Community Center(Murray Street)	12/18/21	0930	G	water		N	N	Fitness center outside spigot
619 Poole Street	12/18/21	0959	G	water		N	N	620 Poole Street outside spigot
Ohana Navy Communities	12/18/21	1015	G	water		N	N	outside spigot
4999 Kidd Court	12/18/21	1050	G	water		N	N	Bathroom sink outside spigot

320-83312 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 2.6 Corr'd: 2.6 | Therm ID No.: 60

Relinquished by: S Watanabe	Hawaii Dept of Health	12/18/21 1223	Received by: David Fawcett	Hawaii Dept of Health	12/18/21 1223
Relinquished by: David Fawcett	Hawaii Dept of Health	12/21/21 1000	Received by: [illegible]	Company: EKI	Date/Time: 12/22/21 1110
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.35, dated 10/6/2020

Time list 1025. DK

Login Sample Receipt Checklist

Client: Eurofins Eaton Analytical

Job Number: 320-83312-1

Login Number: 83312
List Number: 1
Creator: Her, David A

List Source: Eurofins TestAmerica, Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	