### ANALYTICAL REPORT

Job Number: 240-122806-1 Job Description: NE Gravel

For:

Fishbeck Thompson Carr & Huber Inc 1515 Arboretum Drive SE Grand Rapids, MI 49546

Attention: Dan Greene

Approved for release Kris M Brooks Project Manager II 12/30/2019 8:11 PM

Kris M Brooks, Project Manager II 4101 Shuffel Street NW, North Canton, OH, 44720 (330)966-9790 kris.brooks@testamericainc.com 12/30/2019

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins TestAmerica and its client. All questions regarding this report should be directed to the Eurofins TestAmerica Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

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.

Eurofins TestAmerica, Canton
4101 Shuffel Street NW, North Canton, OH 44720
Tel (330) 497-9396 Fax (330) 497-0772 www.testamericainc.com

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# Definitions/Glossary

Client: Fishbeck Thompson Carr & Huber Inc

Job ID: 240-122806-1 Project/Site: NE Gravel

#### 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 Contains No Free Liquid CNF

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor** 

Detection Limit (DoD/DOE) DL

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DL, RA, RE, IN

DLC Decision Level Concentration (Radiochemistry)

**EDL** Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

Minimum Detectable Activity (Radiochemistry) MDA Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit ML Minimum Level (Dioxin)

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

PQL **Practical Quantitation Limit** 

Quality Control QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

#### **Job Narrative** 240-122806-1

#### Comments

The PFAS in Drinking Water analysis was performed at Eaton Laboratory.

Receipt
The samples were received on 11/23/2019 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3° C.

# **Accreditation/Certification Summary**

Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	<b>Expiration Date</b>
California	State	2927	02-23-20
Connecticut	State	PH-0590	12-31-19
Florida	NELAP	E87225	06-30-20
Georgia	State	4062	02-23-20
Illinois	NELAP	004498	07-31-20
Iowa	State	421	06-01-20
Kansas	NELAP	E-10336	04-30-20
Kentucky (UST)	State	112225	02-23-20
Kentucky (WW)	State	KY98016	12-31-19
Minnesota	NELAP	OH00048	12-31-19
Minnesota (Petrofund)	State Program	3506	07-31-21
New Jersey	NELAP	OH001	06-30-20
New York	NELAP	10975	03-31-20
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-23-20
Pennsylvania	NELAP	68-00340	08-31-20
Texas	NELAP	T104704517-18-10	08-31-20
USDA	US Federal Programs	P330-16-00404	12-28-19
Virginia	NELAP	010101	09-14-20
Washington	State	C971	01-12-20
West Virginia DEP	State	210	12-31-19

Job ID: 240-122806-1

# **Method Summary**

Client: Fishbeck Thompson Carr & Huber Inc Project/Site: NE Gravel

Job ID: 240-122806-1

Method	Method Description	Protocol	Laboratory
Subcontract	537.1 Drinking water PFAS (list of 18)	None	Eurofin SB

#### Protocol References:

None = None

#### Laboratory References:

Eurofin SB = Eurofins Eaton Analytical, 110 S Hill Street, South Bend, IN 46617

# **Sample Summary**

Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel

Lab Sample ID Client Sample ID Matrix Collected Received Asset ID 240-122806-1 NEG-19-10-DW-6504 THIMBLEWEED LANE NE Water 11/21/19 16:50 11/23/19 09:30 240-122806-2 Water 11/21/19 17:05 11/23/19 09:30 NEG-19-10-DW-4230 7 MILE RD NE(I) 240-122806-3 NEG-19-10-DW-4230 7 MILE RD NE(D) Water 11/21/19 17:06 11/23/19 09:30 240-122806-4 NEG-19-10-DW-4360 7 MILE RD NE(I) Water 11/21/19 17:25 11/23/19 09:30 240-122806-5 NEG-19-10-DW-QCFB-02 Water 11/21/19 17:30 11/23/19 09:30

Job ID: 240-122806-1

# Subcontract Data



# LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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## STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN00035	New Jersey*	IN598
Colorado Radiochemistry	IN00035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
lowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-18-12
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA014	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

\*NELAP/TNI Recognized Accreditation Bodies

Revision date: 03/14/2019



#### LABORATORY CASE NARRATIVE

Client: TestAmerica - Canton	Report #: 472145CN

All method QC was within acceptance limits.

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Kelly Blackburn ASN1 12/13/2019

Authorized Signature Title

Date



110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

# Laboratory Report

Ali 1.	T1/	0
Jilent:	TestAmerica -	Canton

Report:

472145

Attn: Kris Brooks

Priority:

Standard Written

268832

4101 Shuffel Street NW North Canton, OH 44720

Status:

Final

2.2

ng/L

Project: 24023890 / NE Gravel

### SUMMARY OF DETECTIONS

Perfluorohexanesulfonic acid (PFHxS)

SUMMARY OF DETECTIONS				
Sample ID: 4497654	Sample Site:	NEG1910DW42307MileRd		
Parameter	Method	Result	Units	Run #
Perfluorobutanesulfonic acid (PFBS)	537.1	5.4	ng/L	268832
Sample ID: 4497655	Sample Site:	NEG1910DW42307MileRd		
Parameter	Method	Result	Units	Run #
Perfluorobutanesulfonic acid (PFBS)	537.1	5.4	ng/L	268832
Sample ID: 4497656	Sample Site:	NEG1910DW43607MileRd		
Parameter	Method	Result	Units	Run #
Perfluorobutanesulfonic acid (PFBS)	537.1	2.1	ng/L	268832
Sample ID: 4497653	Sample Site:	NEG1910DW6504Thimblewe	eedLn	
Parameter	Method	Result	Units	Run #

Note: The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Kelly Blackburn at (574) 233-4777.

537.1

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Dava ne S	12/18/2019	
Reviewed By	Title	Date
Finalized By	Title	Date
	Dave 1 of 1	



110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

# Laboratory Report

Client: TestAmerica - Canton Report: 472145

Attn: Kris Brooks Priority: Standard Written

4101 Shuffel Street NW Status: Final

North Canton, OH 44720 PWS ID: Not Supplied

Sample Information								
EEA ID#	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time			
4497653	NEG1910DW6504ThimbleweedLn	537.1	11/21/19 16:50	Client	11/26/19 08:45			
4497654	NEG1910DW42307MileRd	537.1	11/21/19 17:05	Client	11/26/19 08:45			
4497655	NEG1910DW42307MileRd	537.1	11/21/19 17:06	Client	11/26/19 08:45			
4497656	NEG1910DW43607MileRd	537.1	11/21/19 17:25	Client	11/26/19 08:45			
4497657	NEG1910DWQCFB02	537.1	11/21/19 17:30	Client	11/26/19 08:45			

#### **Report Summary**

Note: See attached page for additional comments.

Project: 24023890 / NE Gravel

Note: Sample containers were provided by the client.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Kelly Blackburn at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Keely Blackbourn ASA1

12/13/2019

Date

Client Name: TestAmerica - Canton

Report #: 472145

Authorized Signature

Page 1 of 5

Title

Sampling Point: NEG1910DW6504ThimbleweedLn

PWS ID: Not Supplied

PWS ID: Not Supplied

	EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID#	
335-67-1	Perfluorooctanoic acid (PFOA)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:17	4497653	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:17	4497653	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:17	4497653	
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	7-1	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:17	4497653	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1		2.0	2.2	ng/L	12/05/19 08:20	12/07/19 01:17	4497653	
375-95-1	Perfluorononanoic acid (PFNA)	537.1	- 19-7	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:17	4497653	
335-76-2	Perfluorodecanoic acid (PFDA)	537.1	1 ( <del>)-1</del>	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:17	4497653	
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:17	4497653	
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1	-	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:17	4497653	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:17	4497653	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1	- 60	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:17	4497653	
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	11,2	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:17	4497653	
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:17	4497653	
13252-13-6	HFPO-DA/GenX	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:17	4497653	
958445-44-8	ADONA	537.1	- 1.25	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:17	4497653	
73606-19-6	9CI-PF3ONS/F-53B Major	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:17	4497653	
83329-89-9	11CI-PF3OUdS/F-53B Minor	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:17	4497653	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1	32-1	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:17	4497653	

Sampling Point: NEG1910DW42307MileRd

			EEA Met	hods					
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID#
335-67-1	Perfluorooctanoic acid (PFOA)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:51	4497654
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1	144	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:51	4497654
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1	- 1.44	2.0	5.4	ng/L	12/05/19 08:20	12/07/19 01:51	4497654
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	29-72	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:51	4497654
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1	-	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:51	4497654
375-95-1	Perfluorononanoic acid (PFNA)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:51	4497654
335-76-2	Perfluorodecanoic acid (PFDA)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:51	4497654
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:51	4497654
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1	الماجعون	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:51	4497654
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:51	4497654
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:51	4497654
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:51	4497654
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	-5-25	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:51	4497654
13252-13-6	HFPO-DA/GenX	537.1	- C	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:51	4497654
58445-44-8	ADONA	537.1	المنا	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:51	4497654
73606-19-6	9CI-PF3ONS/F-53B Major	537.1	1249	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:51	4497654
83329-89-9	11CI-PF3OUdS/F-53B Minor	537.1	- 346-	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:51	4497654
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 01:51	4497654

Sampling Point: NEG1910DW42307MileRd

PWS ID: Not Supplied

PWS ID: Not Supplied

	EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID#	
335-67-1	Perfluorooctanoic acid (PFOA)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:08	4497655	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:08	4497655	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1		2.0	5.4	ng/L	12/05/19 08:20	12/07/19 02:08	4497655	
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	7-1	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:08	4497655	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:08	4497655	
375-95-1	Perfluorononanoic acid (PFNA)	537.1	- 1	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:08	4497655	
335-76-2	Perfluorodecanoic acid (PFDA)	537.1	1000	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:08	4497655	
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:08	4497655	
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:08	4497655	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	537.1	- 1	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:08	4497655	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:08	4497655	
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	11,2	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:08	4497655	
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:08	4497655	
13252-13-6	HFPO-DA/GenX	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:08	4497655	
958445-44-8	ADONA	537.1	- 1.25	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:08	4497655	
73606-19-6	9CI-PF3ONS/F-53B Major	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:08	4497655	
83329-89-9	11CI-PF3OUdS/F-53B Minor	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:08	4497655	
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1	32-1	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:08	4497655	

Sampling Point: NEG1910DW43607MileRd

1763-23-1   Perfluorooctanesulfonic acid (PFOS)   537.1     2.0   < 2.0   ng/L   12/05/19 08:20   12/07/19 02:25   449765   375-73-5   Perfluorobutanesulfonic acid (PFBS)   537.1     2.0   < 2.0   ng/L   12/05/19 08:20   12/07/19 02:25   449765   375-85-9   Perfluoroheptanoic acid (PFHpA)   537.1     2.0   < 2.0   ng/L   12/05/19 08:20   12/07/19 02:25   449765   355-46-4   Perfluorohexanesulfonic acid (PFHxS)   537.1     2.0   < 2.0   ng/L   12/05/19 08:20   12/07/19 02:25   449765   375-95-1   Perfluorononanoic acid (PFNA)   537.1     2.0   < 2.0   ng/L   12/05/19 08:20   12/07/19 02:25   449765   335-76-2   Perfluorohexanoic acid (PFDA)   537.1     2.0   < 2.0   ng/L   12/05/19 08:20   12/07/19 02:25   449765   307-24-4   Perfluorohexanoic acid (PFDA)   537.1     2.0   < 2.0   ng/L   12/05/19 08:20   12/07/19 02:25   449765   307-55-1   Perfluorodecanoic acid (PFDA)   537.1     2.0   < 2.0   ng/L   12/05/19 08:20   12/07/19 02:25   449765   307-55-1   Perfluorodecanoic acid (PFDA)   537.1     2.0   < 2.0   ng/L   12/05/19 08:20   12/07/19 02:25   449765   2058-94-8   Perfluoroundecanoic acid (PFUnA)   537.1     2.0   < 2.0   ng/L   12/05/19 08:20   12/07/19 02:25   449765   2058-94-8   Perfluoroundecanoic acid (PFUnA)   537.1     2.0   < 2.0   ng/L   12/05/19 08:20   12/07/19 02:25   449765   2058-94-8   Perfluoroundecanoic acid (PFUnA)   537.1     2.0   < 2.0   ng/L   12/05/19 08:20   12/07/19 02:25   449765   2058-94-8   Perfluoroundecanoic acid (PFUnA)   537.1     2.0   < 2.0   ng/L   12/05/19 08:20   12/07/19 02:25   449765   2058-94-8   Perfluoroundecanoic acid (PFUnA)   537.1     2.0   < 2.0   ng/L   12/05/19 08:20   12/07/19 02:25   449765   2058-94-8   Perfluoroundecanoic acid (PFUnA)   537.1     2.0   < 2.0   ng/L   12/05/19 08:20   12/07/19 02:25   449765   2058-94-8   Perfluoroundecanoic acid (PFUnA)   537.1     2.0   < 2.0   ng/L   12/05/19 08:20   12/07/19 02:25   449765   2058-94-8   2058-94-8   2058-94-8   2058-94-8   2058-94-8									
	Analyte	Method		MRL†	Result	Units			
335-67-1	Perfluorooctanoic acid (PFOA)	537.1	-	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:25	4497656
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1	144	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:25	4497656
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1	- 1.85	2.0	2.1	ng/L	12/05/19 08:20	12/07/19 02:25	4497656
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	2	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:25	4497656
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:25	4497656
375-95-1	Perfluorononanoic acid (PFNA)	537.1	344	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:25	4497656
335-76-2	Perfluorodecanoic acid (PFDA)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:25	4497656
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:25	4497656
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1	194	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:25	4497656
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:25	4497656
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:25	4497656
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:25	4497656
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	-5-2	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:25	4497656
13252-13-6	HFPO-DA/GenX	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:25	4497656
958445-44-8	ADONA	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:25	4497656
73606-19-6	9CI-PF3ONS/F-53B Major	537.1	3	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:25	4497656
83329-89-9	11CI-PF3OUdS/F-53B Minor	537.1	- 3-45	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:25	4497656
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:25	4497656

Sampling Point: NEG1910DWQCFB02

PWS ID: Not Supplied

		E	EEA Met	hods					
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID#
335-67-1	Perfluorooctanoic acid (PFOA)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:42	4497657
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:42	4497657
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:42	4497657
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	100	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:42	4497657
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:42	4497657
375-95-1	Perfluorononanoic acid (PFNA)	537.1	- 12	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:42	4497657
335-76-2	Perfluorodecanoic acid (PFDA)	537.1	(44)	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:42	4497657
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1	- 24	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:42	4497657
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:42	4497657
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	537.1	- 1-2-	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:42	4497657
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:42	4497657
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	11,52	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:42	4497657
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:42	4497657
13252-13-6	HFPO-DA/GenX	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:42	4497657
958445-44-8	ADONA	537.1	- 1.22	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:42	4497657
73606-19-6	9CI-PF3ONS/F-53B Major	537.1		2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:42	4497657
83329-89-9	11CI-PF3OUdS/F-53B Minor	537.1	- Care 1	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:42	4497657
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1	3 <del>2</del> -1	2.0	< 2.0	ng/L	12/05/19 08:20	12/07/19 02:42	4497657

<sup>†</sup> EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	۸	i i

#### **Lab Definitions**

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

**Internal Standards (IS)** - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

**Laboratory Duplicate (LD)** - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

**Surrogate Standard (SS)** / **Surrogate Analyte (SUR)** - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

#### Eurofins TestAmerica, Canton

Phone: 330-497-9396 Fax: 330-497-0772

4101 Shuffel Street NW North Canton, OH 44720

# **Chain of Custody Record**



eurofins

Ver. 01 16 2019

Client Information (Sub Contract Lab)	Sampler:			Lab PM Brook:	t: s, Kris	s M			Came	er Tracking	No(s):	240-114324.1	
Client Contact Shipping/Receiving	Phone:			E-Mail: kris.br	rooksi	@test	americainc.co	m		of Origin: ligan		Page: Page 1 of 1	
Company Eurofins Eaton Analytical							Required (See no		IVIICI	iigaii		Job #: 240-122806-1	
	Due Date Request 12/16/2019	ed:					An	alysis Re	eques	ted		Preservation Co	
City: South Bend	TAT Requested (d	ays):			10	-			İ			A - HCL B - NaOH	M - Hexane N - None
State, Zip:				М		537.1		11				C - Zn Acetate D - Nitric Acid	O - AsNaO2 P - Na2O4S
IN, 46617 Phone:	PO#:			-		of 18)/						E - NaHSO4 F - MeOH G - Amobler	O - Na2SO3 R - Na2S2O3
-	12.2			1	0	ist.						H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate
Email:	WO#:				No.	FAS (		11				J - Ice J - DI Water	U - Acetone V - MCAA
	Project #: 24023890			2	s or	water PFAS ( S (list of 18)		11	1.1			K - EDTA L - EDA Other:	W - pH 4-5 Z - other (specify)
Site:	SSOW#:			1	SD (Ye	FAS (I						Other:	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Matri Type (C=comp, Oveasis G=grab) ST-lissue.	on solid.	Field Filtered Sample (Yes or No)	SUB (537.1 Drinking w Drinking water PFAS (							ple TD
NEG-19-10-DW-6504 THIMBLEWEED LANE NE(I) (240-122806	11/21/19	16:50	Wate	-	4	x	1111	1	1	1		4497	11-2
	-	Eastern 17:05		-	+		pH=	25 10	10	4		////	(05 )
NEG-19-10-DW-4230 7 MILE RD NE(I) (240-122806-2)	11/21/19	Eastern 17:06	Wate	-	_	X	PHED	15 101	7	CHA		44970	224
NEG-19-10-DW-4230 7 MILE RD NE(D) (240-122806-3)	11/21/19	Eastern	Wate	er		×	pH=	05 10 1	5	G-71		44916	55
NEG-19-10-DW-4360 7 MILE RD NE(I) (240-122806-4)	11/21/19	17:25 Eastern	Wate	er		Х	pH = V	eA to 7	5	LA		44976	156
NEG-19-10-DW-QCFB-02 (240-122806-5)	11/21/19	17:30 Eastern	Wate	er	+	×	df=6	15/c 73		1-A		449765	7
				-	4		Client Prov	ided Sar	mple	Contai	ner	0,2	
Note: Since laboratory accreditations are subject to change, TestAmerica Labora currently maintain accreditation in the State of Origin listed above for analysis/les Laboratories, Inc. attention immediately. If all requested accreditations are currently accreditations are currently as the state of the s	ts/matrix being anal	yzed, the same	ples must be shipped ba	ck to the	e Test/ nplican	America ce to T	a laboratory or oth estAmerica Labor	er instruction atones, Inc.	s will be	provided.	Any changes to acci	reditation status should	t be brought to TestAmerica
Possible Hazard Identification Unconfirmed					Sai		Disposal ( A I turn To Client	ee may be		sed if sa sal By La		ined longer than hive For	1 month) Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	able Rank:	2		Spe		nstructions/QC	Requirem		sai by La	D Arc	nive roi	WORRIS
Empty Kit Relinguished by:	-	Date:		17	Time:				-	Method of	Shipment:		
Relinquished by:	Date Tine 25		/ Company			Recei	CBant				Date/Time:	24	Company
Relinquished by:	Date/Tinje:		() Company				(ASOM)				11/2/p/19	0845	Company
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Relinquished by:	Date/Time:		Company			Recei	ved by:				Date/Time:		Company
Custody Seals Intact: Custody Seal No.:			-1		- 0	Coole	r Temperature(s)	°C and Other	Remark	s;			
Δ Yes Δ No			Page	<del>18 o</del>	f 13	4—							Ver 01.16.2019



# **Eurofins Eaton Analytical Run Log**

Run ID: 268832 Method: 537.1

Type	Sample Id	Sample Site	<u>Matrix</u>	Instrument ID	<b>Analysis Date</b>	<b>Calibration File</b>
CCL	4504287		os	FL	12/06/2019 23:18	120619M537_1b-FL.mdb
LRB	4504306		RW	FL.	12/06/2019 23:52	120619M537_1b-FL.mdb
FBL	4504316		RW	FL	12/07/2019 00:09	120619M537_1b-FL.mdb
FBM	4504317		RW	FL	12/07/2019 00:26	120619M537_1b-FL.mdb
FS	4497653	NEG1910DW6504ThimbleweedLn	DW	FL.	12/07/2019 01:17	120619M537_1b-FL.mdb
FD	4504258	NEG1910DW6504ThimbleweedLn	DW	FL	12/07/2019 01:34	120619M537_1b-FL.mdb
FS	4497654	NEG1910DW42307MileRd	DW	FL	12/07/2019 01:51	120619M537_1b-FL.mdb
FS	4497655	NEG1910DW42307MileRd	DW	FL	12/07/2019 02:08	120619M537_1b-FL.mdb
FS	4497656	NEG1910DW43607MileRd	DW	FL	12/07/2019 02:25	120619M537_1b-FL.mdb
FS	4497657	NEG1910DWQCFB02	DW	FL	12/07/2019 02:42	120619M537_1b-FL.mdb
CCM	4504302		os	FL	12/07/2019 04:07	120619M537_1b-FL.mdb

					QC S	ummar	y Repo	rt								
Sample Type	Analyte	Method	MDA95	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID#
CCL	Perfluorooctanoic acid (PFOA)	537.1	2.0	-		1.9608	2.0	ng/L	98	50 - 150		1-0	1.0	12/05/2019 14:50	12/06/2019 23:18	8 4504287
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	-		2.0702	2.0	ng/L	104	50 - 150	-		1.0	12/05/2019 14:50	12/06/2019 23:18	8 4504287
CCL	IS-NMeFOSAA-d3	537.1	N/A	- 1,-		351807	351807	ng/L	100	50 - 150			1.0	12/05/2019 14:50	12/06/2019 23:18	8 4504287
CCL	IS-PFOA-13C2	537.1	N/A			989089	989089	ng/L	100	50 - 150	نيد		1.0	12/05/2019 14:50	12/06/2019 23:18	3 4504287
CCL	IS-PFOS-13C4	537.1	N/A	-		325210	325210	ng/L	100	50 - 150			1.0	12/05/2019 14:50	12/06/2019 23:18	4504287
CCL	SS-NEtFOSAA-d5	537.1	N/A			156.2250	160	ng/L	98	70 - 130	5		1.0	12/05/2019 14:50	12/06/2019 23:18	8 4504287
CCL	SS-PFDA-13C2	537.1	N/A			39.1300	40.0	ng/L	98	70 - 130			1.0	12/05/2019 14:50	12/06/2019 23:18	4504287
CCL	SS-PFHxA-13C2	537.1	N/A	<del>-</del>		38.4258	40.0	ng/L	96	70 - 130			1.0	12/05/2019 14:50	12/06/2019 23:18	8 4504287
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	V <del></del>		1.8657	2.0	ng/L	93	50 - 150			1.0	12/05/2019 14:50	12/06/2019 23:18	8 4504287
CCL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	-		1.9175	2.0	ng/L	96	50 - 150	5		1.0	12/05/2019 14:50	12/06/2019 23:18	8 4504287
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	/		1.9190	2.0	ng/L	96	50 - 150	-		1.0	12/05/2019 14:50	12/06/2019 23:18	8 4504287
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0			1.9723	2.0	ng/L	99	50 - 150			1.0	12/05/2019 14:50	12/06/2019 23:18	8 4504287
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	_		2.0052	2.0	ng/L	100	50 - 150			1.0	12/05/2019 14:50	12/06/2019 23:18	8 4504287
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0			1.9264	2.0	ng/L	96	50 - 150			1.0	12/05/2019 14:50	12/06/2019 23:18	8 4504287
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0			2.1087	2.0	ng/L	105	50 - 150			1.0	12/05/2019 14:50	12/06/2019 23:18	8 4504287
CCL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	-		2.0456	2.0	ng/L	102	50 - 150			1.0	12/05/2019 14:50	12/06/2019 23:18	8 4504287
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	-		2.0269	2.0	ng/L	101	50 - 150			1.0	12/05/2019 14:50	12/06/2019 23:18	4504287
CCL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0			2.1619	2.0	ng/L	108	50 - 150			1.0	12/05/2019 14:50	12/06/2019 23:18	4504287
CCL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0			2.2500	2.0	ng/L	112	50 - 150			1.0	12/05/2019 14:50	12/06/2019 23:18	8 4504287
CCL	HFPO-DA/GenX	537.1	2.0	-		1.8187	2.0	ng/L	91	50 - 150			1.0	12/05/2019 14:50	12/06/2019 23:18	4504287
CCL	ADONA	537.1	2.0			1.9368	2.0	ng/L	97	50 - 150			1.0	12/05/2019 14:50	12/06/2019 23:18	8 4504287
CCL	9CI-PF3ONS/F-53B Major	537.1	2.0			2.1990	2.0	ng/L	110	50 - 150			1.0	12/05/2019 14:50	12/06/2019 23:18	4504287
CCL	11CI-PF3OUdS/F-53B Minor	537.1	2.0			2.1824	2.0	ng/L	109	50 - 150			1.0	12/05/2019 14:50	12/06/2019 23:18	8 4504287
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	-		2.0515	2.0	ng/L	103	50 - 150			1.0	12/05/2019 14:50	12/06/2019 23:18	4504287
CCL	SS-HFPO-DA-13C3	537.1	N/A	<del>-</del>		37.3949	40.0	ng/L	93	70 - 130	-		1.0	12/05/2019 14:50	12/06/2019 23:18	8 4504287
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0		<	2.0		ng/L					0.91	12/05/2019 08:20	12/06/2019 23:52	2 4504306
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	-	<	2.0		ng/L			***		0.91	12/05/2019 08:20	12/06/2019 23:52	2 4504306
LRB	IS-NMeFOSAA-d3	537.1	N/A	_		355485	351807	ng/L	101	50 - 150			0.91	12/05/2019 08:20	12/06/2019 23:52	2 4504306
LRB	IS-PFOA-13C2	537.1	N/A	-		1012320	989089	ng/L	102	50 - 150	-		0.91	12/05/2019 08:20	12/06/2019 23:52	2 4504306
LRB	IS-PFOS-13C4	537.1	N/A			331918	325210	ng/L	102	50 - 150			0.91	12/05/2019 08:20	12/06/2019 23:52	2 4504306
LRB	SS-NEtFOSAA-d5	537.1	N/A			124.7150	160	ng/L	86	70 - 130			0.91	12/05/2019 08:20	12/06/2019 23:52	2 4504306
LRB	SS-PFDA-13C2	537.1	N/A	-		33.8677	40.0	ng/L	93	70 - 130			0.91	12/05/2019 08:20	12/06/2019 23:52	2 4504306
LRB	SS-PFHxA-13C2	537.1	N/A			33.9857	40.0	ng/L	93	70 - 130	-		0.91	12/05/2019 08:20	12/06/2019 23:52	2 4504306
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	-	<	2.0		ng/L		100		-	0.91	12/05/2019 08:20	12/06/2019 23:52	2 4504306
LRB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	-	<	2.0		ng/L					0.91	12/05/2019 08:20	12/06/2019 23:52	2 4504306
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0		<	2.0		ng/L			-		0.91	12/05/2019 08:20	12/06/2019 23:52	2 4504306
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	-	<	2.0		ng/L			, <del></del>		0.91	12/05/2019 08:20	12/06/2019 23:52	2 4504306
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0		<	2.0		ng/L		-244			0.91	12/05/2019 08:20	12/06/2019 23:52	2 4504306
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	_	<	2.0		ng/L			-		0.91	12/05/2019 08:20	12/06/2019 23:52	2 4504306
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0		<	2.0		ng/L			-		0.91	12/05/2019 08:20	12/06/2019 23:52	2 4504306

					QC S	ummary Re	port (cont.)									
Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID#
LRB	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	941	<	2.0		ng/L					0.91	12/05/2019 08:20	12/06/2019 23:52	4504306
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0		<	2.0		ng/L	-		-	-	0.91	12/05/2019 08:20	12/06/2019 23:52	4504306
LRB	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	-	<	2.0		ng/L			-		0.91	12/05/2019 08:20	12/06/2019 23:52	4504306
LRB	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	-	<	2.0		ng/L					0.91	12/05/2019 08:20	12/06/2019 23:52	4504306
LRB	HFPO-DA/GenX	537.1	2.0	-	<	2.0		ng/L	-		,		0.91	12/05/2019 08:20	12/06/2019 23:52	4504306
LRB	ADONA	537.1	2.0	-	<	2.0		ng/L		222			0.91	12/05/2019 08:20	12/06/2019 23:52	4504306
LRB	9CI-PF3ONS/F-53B Major	537.1	2.0		<	2.0		ng/L			_		0.91	12/05/2019 08:20	12/06/2019 23:52	4504306
LRB	11CI-PF3OUdS/F-53B Minor	537.1	2.0	_	<	2.0		ng/L					0.91	12/05/2019 08:20	12/06/2019 23:52	4504306
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	-	<	2.0		ng/L			-		0.91	12/05/2019 08:20	12/06/2019 23:52	4504306
LRB	SS-HFPO-DA-13C3	537.1	N/A	-		32.7186	40.0	ng/L	90	70 - 130			0.91	12/05/2019 08:20	12/06/2019 23:52	4504306
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0			1.8458	2.0	ng/L	92	50 - 150	-		1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0			1.8769	2.0	ng/L	94	50 - 150			1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	IS-NMeFOSAA-d3	537.1	N/A			381671	351807	ng/L	108	50 - 150	-	-	1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	IS-PFOA-13C2	537.1	N/A			1098690	989089	ng/L	111	50 - 150			1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	IS-PFOS-13C4	537.1	N/A			358192	325210	ng/L	110	50 - 150	_		1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	SS-NEtFOSAA-d5	537.1	N/A	-		153.0180	160	ng/L	96	70 - 130			1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	SS-PFDA-13C2	537.1	N/A	-	Ti Ti	41.6020	40.0	ng/L	104	70 - 130	V		1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	SS-PFHxA-13C2	537.1	N/A			42.0370	40.0	ng/L	105	70 - 130	-		1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0			1.7623	2.0	ng/L	88	50 - 150			1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	<del>-</del> -		1.8080	2.0	ng/L	90	50 - 150	-	_	1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0			1.8216	2.0	ng/L	91	50 - 150			1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	-		1.8154	2.0	ng/L	91	50 - 150	-		1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0			1.7631	2.0	ng/L	88	50 - 150	100		1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0			1.8196	2.0	ng/L	91	50 - 150		-	1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0			1.5816	2.0	ng/L	79	50 - 150			1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0			1.5805	2.0	ng/L	79	50 - 150	-		1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	<del>-</del>		1.6655	2.0	ng/L	83	50 - 150			1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0			1.6646	2.0	ng/L	83	50 - 150	-		1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0			1.6740	2.0	ng/L	84	50 - 150			1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	HFPO-DA/GenX	537.1	2.0			1.6978	2.0	ng/L	85	50 - 150	-		1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	ADONA	537.1	2.0	5-0		1.7829	2.0	ng/L	89	50 - 150			1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	9CI-PF3ONS/F-53B Major	537.1	2.0	_		1.7775	2.0	ng/L	89	50 - 150			1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	11CI-PF3OUdS/F-53B Minor	537.1	2.0	-		1.6423	2.0	ng/L	82	50 - 150	3,		1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0			1.5332	2.0	ng/L	77	50 - 150	-		1.0	12/05/2019 08:20	12/07/2019 00:09	4504316
FBL	SS-HFPO-DA-13C3	537.1	N/A	- 1,22		41.4254	40.0	ng/L	104	70 - 130	-		1.0		12/07/2019 00:09	1
FBM	Perfluorooctanoic acid (PFOA)	537.1	2.0	_		95.5305	100	ng/L	96	70 - 130			1.0		12/07/2019 00:26	
FBM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	_		94.6271	100	ng/L	95	70 - 130			1.0		12/07/2019 00:26	
FBM	IS-NMeFOSAA-d3	537.1	N/A			356472	351807	ng/L	101	50 - 150	-		1.0		12/07/2019 00:26	
FBM	IS-PFOA-13C2	537.1	N/A	<del></del> .		998517	989089	ng/L	101	50 - 150			1.0		12/07/2019 00:26	
FBM	IS-PFOS-13C4	537.1	N/A	_		325493	325210	ng/L	100	50 - 150			1.0		12/07/2019 00:26	
FBM	SS-NEtFOSAA-d5	537.1	N/A	_		135.6800	160	ng/L	85	70 - 130			1.0		12/07/2019 00:26	

					QC S	ummary Re	port (cont.)									
Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID#
FBM	SS-PFDA-13C2	537.1	N/A			38.2527	40.0	ng/L	96	70 - 130			1.0	12/05/2019 08:20	12/07/2019 00:26	4504317
FBM	SS-PFHxA-13C2	537.1	N/A			37.3665	40.0	ng/L	93	70 - 130			1.0	12/05/2019 08:20	12/07/2019 00:26	4504317
FBM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	-		95.3732	100	ng/L	95	70 - 130	-		1.0	12/05/2019 08:20	12/07/2019 00:26	4504317
FBM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0			93.5110	100	ng/L	94	70 - 130			1.0	12/05/2019 08:20	12/07/2019 00:26	4504317
FBM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0			96.5288	100	ng/L	97	70 - 130			1.0	12/05/2019 08:20	12/07/2019 00:26	4504317
FBM	Perfluorononanoic acid (PFNA)	537.1	2.0			96.1982	100	ng/L	96	70 - 130	-		1.0	12/05/2019 08:20	12/07/2019 00:26	4504317
FBM	Perfluorodecanoic acid (PFDA)	537.1	2.0	_		93.2703	100	ng/L	93	70 - 130			1.0	12/05/2019 08:20	12/07/2019 00:26	4504317
FBM	Perfluorohexanoic acid (PFHxA)	537.1	2.0			92.6733	100	ng/L	93	70 - 130			1.0	12/05/2019 08:20	12/07/2019 00:26	4504317
FBM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	-		88.4737	100	ng/L	88	70 - 130	-		1.0	12/05/2019 08:20	12/07/2019 00:26	4504317
FBM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0			86.9075	100	ng/L	87	70 - 130			1.0	12/05/2019 08:20	12/07/2019 00:26	4504317
FBM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0			89.7420	100	ng/L	90	70 - 130			1.0	12/05/2019 08:20	12/07/2019 00:26	4504317
FBM	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0			86.1830	100	ng/L	86	70 - 130			1.0	12/05/2019 08:20	12/07/2019 00:26	4504317
FBM	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	_		88.8247	100	ng/L	89	70 - 130			1.0	12/05/2019 08:20	12/07/2019 00:26	4504317
FBM	HFPO-DA/GenX	537.1	2.0			85.8408	100	ng/L	86	70 - 130			1.0	12/05/2019 08:20	12/07/2019 00:26	4504317
FBM	ADONA	537.1	2.0	_		91.0159	100	ng/L	91	70 - 130			1.0	12/05/2019 08:20	12/07/2019 00:26	4504317
FBM	9CI-PF3ONS/F-53B Major	537.1	2.0			93.9153	100	ng/L	94	70 - 130			1.0	12/05/2019 08:20	12/07/2019 00:26	4504317
FBM	11CI-PF3OUdS/F-53B Minor	537.1	2.0			89.3922	100	ng/L	89	70 - 130	-		1.0	12/05/2019 08:20	12/07/2019 00:26	4504317
FBM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	_		87.0336	100	ng/L	87	70 - 130			1.0	12/05/2019 08:20	12/07/2019 00:26	4504317
FBM	SS-HFPO-DA-13C3	537.1	N/A			35.4532	40.0	ng/L	89	70 - 130	-		1.0	12/05/2019 08:20	12/07/2019 00:26	4504317
FS	Perfluorooctanoic acid (PFOA)	537.1	2.0	4EG1910DW6504ThimbleweedL	<	2.0		ng/L	1				0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FS	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	VEG1910DW6504ThimbleweedL	<	2.0		ng/L			J. 222		0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FS	IS-NMeFOSAA-d3	537.1	N/A	4EG1910DW6504ThimbleweedL		341054	351807	ng/L	97	50 - 150			0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FS	IS-PFOA-13C2	537.1	N/A	4EG1910DW6504ThimbleweedL		987475	989089	ng/L	100	50 - 150			0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FS	IS-PFOS-13C4	537.1	N/A	VEG1910DW6504ThimbleweedL		322935	325210	ng/L	99	50 - 150			0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FS	SS-NEtFOSAA-d5	537.1	N/A	4EG1910DW6504ThimbleweedL		122.6390	160	ng/L	89	70 - 130			0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FS	SS-PFDA-13C2	537.1	N/A	4EG1910DW6504ThimbleweedL		32.2592	40.0	ng/L	94	70 - 130	-		0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FS	SS-PFHxA-13C2	537.1	N/A	4EG1910DW6504ThimbleweedL	-	32.6599	40.0	ng/L	95	70 - 130	300		0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FS	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	4EG1910DW6504ThimbleweedL	<	2.0		ng/L	1				0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FS	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	4EG1910DW6504ThimbleweedL	<	2.0		ng/L			J. 4		0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FS	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	4EG1910DW6504ThimbleweedL		2.2		ng/L		1-44	/ <del></del> /		0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FS	Perfluorononanoic acid (PFNA)	537.1	2.0	4EG1910DW6504ThimbleweedL	<	2.0		ng/L		-			0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FS	Perfluorodecanoic acid (PFDA)	537.1	2.0	4EG1910DW6504ThimbleweedL	<	2.0		ng/L	- 1 <del></del>		1-20	-	0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FS	Perfluorohexanoic acid (PFHxA)	537.1	2.0	√EG1910DW6504ThimbleweedL	<	2.0		ng/L					0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FS	Perfluorododecanoic acid (PFDoA)	537.1	2.0	4EG1910DW6504ThimbleweedL	<	2.0		ng/L			-		0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FS	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	4EG1910DW6504ThimbleweedLi	<	2.0		ng/L					0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FS	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	VEG1910DW6504ThimbleweedL	<	2.0		ng/L	-	-	المست		0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FS	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	4EG1910DW6504ThimbleweedL	<	2.0		ng/L					0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FS	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	VEG1910DW6504ThimbleweedL	<	2.0		ng/L					0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FS	HFPO-DA/GenX	537.1	2.0	4EG1910DW6504ThimbleweedL	<	2.0		ng/L	1 10-				0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FS	ADONA	537.1	2.0	VEG1910DW6504ThimbleweedL	<	2.0		ng/L					0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FS	9CI-PF3ONS/F-53B Major	537.1	2.0	√EG1910DW6504ThimbleweedL	<	2.0		ng/L			_		0.86	12/05/2019 08:20	12/07/2019 01:17	4497653

					QC S	ummary Re	port (cont.)									
Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID#
FS	11CI-PF3OUdS/F-53B Minor	537.1	2.0	VEG1910DW6504ThimbleweedLi	<	2.0		ng/L			-		0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FS	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	4EG1910DW6504ThimbleweedL	<	2.0		ng/L					0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FS	SS-HFPO-DA-13C3	537.1	N/A	VEG1910DW6504ThimbleweedL		31.8506	40.0	ng/L	93	70 - 130			0.86	12/05/2019 08:20	12/07/2019 01:17	4497653
FD	Perfluorooctanoic acid (PFOA)	537.1	2.0	√EG1910DW6504ThimbleweedL	<	2.0		ng/L	-	-225	-		0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	VEG1910DW6504ThimbleweedL	<	2.0		ng/L					0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	IS-NMeFOSAA-d3	537.1	N/A	/EG1910DW6504ThimbleweedL		342981	351807	ng/L	97	50 - 150	-		0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	IS-PFOA-13C2	537.1	N/A	IEG1910DW6504ThimbleweedL		986923	989089	ng/L	100	50 - 150	-		0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	IS-PFOS-13C4	537.1	N/A	√EG1910DW6504ThimbleweedL		318915	325210	ng/L	98	50 - 150			0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	SS-NEtFOSAA-d5	537.1	N/A	4EG1910DW6504ThimbleweedL		110.8440	160	ng/L	86	70 - 130			0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	SS-PFDA-13C2	537.1	N/A	VEG1910DW6504ThimbleweedL		29.2252	40.0	ng/L	90	70 - 130			0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	SS-PFHxA-13C2	537.1	N/A	4EG1910DW6504ThimbleweedL		30.4311	40.0	ng/L	94	70 - 130			0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	4EG1910DW6504ThimbleweedL	<	2.0		ng/L	-				0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	VEG1910DW6504ThimbleweedL	<	2.0		ng/L			-		0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	VEG1910DW6504ThimbleweedL		2.13		ng/L	-		2.7	30	0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	Perfluorononanoic acid (PFNA)	537.1	2.0	VEG1910DW6504ThimbleweedL	<	2.0		ng/L		***			0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	Perfluorodecanoic acid (PFDA)	537.1	2.0	4EG1910DW6504ThimbleweedL	<	2.0		ng/L					0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	Perfluorohexanoic acid (PFHxA)	537.1	2.0	4EG1910DW6504ThimbleweedL	<	2.0		ng/L			-		0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	Perfluorododecanoic acid (PFDoA)	537.1	2.0	VEG1910DW6504ThimbleweedL	<	2.0		ng/L	-		) <del>***</del>		0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	VEG1910DW6504ThimbleweedL	<	2.0		ng/L	-	444	- 144		0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	VEG1910DW6504ThimbleweedL	<	2.0		ng/L					0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	√EG1910DW6504ThimbleweedL	<	2.0		ng/L	-				0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	VEG1910DW6504ThimbleweedL	<	2.0		ng/L					0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	HFPO-DA/GenX	537.1	2.0	√EG1910DW6504ThimbleweedL	<	2.0		ng/L					0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	ADONA	537.1	2.0	4EG1910DW6504ThimbleweedL	<	2.0		ng/L					0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	9CI-PF3ONS/F-53B Major	537.1	2.0	√EG1910DW6504ThimbleweedL	<	2.0		ng/L					0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	11CI-PF3OUdS/F-53B Minor	537.1	2.0	4EG1910DW6504ThimbleweedL	<	2.0		ng/L			-		0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	√EG1910DW6504ThimbleweedL	<	2.0		ng/L		100			0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FD	SS-HFPO-DA-13C3	537.1	N/A	VEG1910DW6504ThimbleweedL		29.7698	40.0	ng/L	92	70 - 130			0.81	12/05/2019 08:20	12/07/2019 01:34	4504258
FS	Perfluorooctanoic acid (PFOA)	537.1	2.0	JEG1910DW42307MileR	<	2.0		ng/L	1				0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	VEG1910DW42307MileRe	<	2.0		ng/L		>	-		0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	IS-NMeFOSAA-d3	537.1	N/A	IEG1910DW42307MileR		353945	351807	ng/L	101	50 - 150			0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	IS-PFOA-13C2	537.1	N/A	IEG1910DW42307MileR		1016310	989089	ng/L	103	50 - 150			0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	IS-PFOS-13C4	537.1	N/A	JEG1910DW42307MileR		330141	325210	ng/L	102	50 - 150	5		0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	SS-NEtFOSAA-d5	537.1	N/A	VEG1910DW42307MileRo		106.5070	160	ng/L	84	70 - 130			0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	SS-PFDA-13C2	537.1	N/A	IEG1910DW42307MileR		29.6743	40.0	ng/L	94	70 - 130			0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	SS-PFHxA-13C2	537.1	N/A	JEG1910DW42307MileR		30.1960	40.0	ng/L	96	70 - 130			0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	IEG1910DW42307MileR		5.4		ng/L	1				0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	VEG1910DW42307MileR	<	2.0		ng/L	-				0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	IEG1910DW42307MileR	<	2.0		ng/L	1	-			0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	Perfluorononanoic acid (PFNA)	537.1	2.0	IEG1910DW42307MileR	<	2.0		ng/L		Tee I			0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	Perfluorodecanoic acid (PFDA)	537.1	2.0	JEG1910DW42307MileR	<	2.0		ng/L					0.79		12/07/2019 01:51	1

					QC S	ummary Re	port (cont.)									
Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID#
FS	Perfluorohexanoic acid (PFHxA)	537.1	2.0	IEG1910DW42307MileR	<	2.0	1	ng/L	- /	1 7-4			0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	Perfluorododecanoic acid (PFDoA)	537.1	2.0	IEG1910DW42307MileRe	<	2.0		ng/L					0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	IEG1910DW42307MileRe	<	2.0		ng/L			-		0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	VEG1910DW42307MileRe	<	2.0		ng/L			5-22-6		0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	IEG1910DW42307MileRe	<	2.0		ng/L					0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	JEG1910DW42307MileRe	<	2.0		ng/L	-				0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	HFPO-DA/GenX	537.1	2.0	IEG1910DW42307MileRe	<	2.0		ng/L					0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	ADONA	537.1	2.0	JEG1910DW42307MileRe	<	2.0		ng/L			5 (		0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	9CI-PF3ONS/F-53B Major	537.1	2.0	IEG1910DW42307MileR	<	2.0		ng/L	- A		/		0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	11CI-PF3OUdS/F-53B Minor	537.1	2.0	IEG1910DW42307MileRe	<	2.0		ng/L		-	-		0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	IEG1910DW42307MileRe	<	2.0		ng/L	1				0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	SS-HFPO-DA-13C3	537.1	N/A	JEG1910DW42307MileRe		30.0238	40.0	ng/L	95	70 - 130			0.79	12/05/2019 08:20	12/07/2019 01:51	4497654
FS	Perfluorooctanoic acid (PFOA)	537.1	2.0	VEG1910DW42307MileRe	<	2.0		ng/L					0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	JEG1910DW42307MileRe	<	2.0		ng/L		Term.			0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	IS-NMeFOSAA-d3	537.1	N/A	VEG1910DW42307MileRe		331975	351807	ng/L	94	50 - 150			0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	IS-PFOA-13C2	537.1	N/A	IEG1910DW42307MileRe		944161	989089	ng/L	95	50 - 150	-		0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	IS-PFOS-13C4	537.1	N/A	\EG1910DW42307MileR		302360	325210	ng/L	93	50 - 150			0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	SS-NEtFOSAA-d5	537.1	N/A	IEG1910DW42307MileRe		111.8210	160	ng/L	85	70 - 130	,		0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	SS-PFDA-13C2	537.1	N/A	JEG1910DW42307MileRe		30.1569	40.0	ng/L	92	70 - 130			0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	SS-PFHxA-13C2	537.1	N/A	IEG1910DW42307MileRe		31.5017	40.0	ng/L	96	70 - 130	-		0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	VEG1910DW42307MileRe		5.4		ng/L					0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	IEG1910DW42307MileRe	<	2.0		ng/L					0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	IEG1910DW42307MileRe	<	2.0		ng/L		-244	-		0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	Perfluorononanoic acid (PFNA)	537.1	2.0	IEG1910DW42307MileRe	<	2.0		ng/L	***				0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	Perfluorodecanoic acid (PFDA)	537.1	2.0	IEG1910DW42307MileRe	<	2.0		ng/L			-		0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	Perfluorohexanoic acid (PFHxA)	537.1	2.0	VEG1910DW42307MileRe	<	2.0		ng/L		1-00	-		0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	Perfluorododecanoic acid (PFDoA)	537.1	2.0	JEG1910DW42307MileR	<	2.0		ng/L	-	***			0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	VEG1910DW42307MileRi	<	2.0		ng/L					0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	JEG1910DW42307MileRe	<	2.0		ng/L	-				0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	VEG1910DW42307MileRe	<	2.0		ng/L					0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	JEG1910DW42307MileR	<	2.0		ng/L	-		-		0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	HFPO-DA/GenX	537.1	2.0	IEG1910DW42307MileR	<	2.0		ng/L		***			0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	ADONA	537.1	2.0	JEG1910DW42307MileRe	<	2.0		ng/L					0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	9CI-PF3ONS/F-53B Major	537.1	2.0	VEG1910DW42307MileRe	<	2.0		ng/L					0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	11CI-PF3OUdS/F-53B Minor	537.1	2.0	IEG1910DW42307MileRe	<	2.0		ng/L					0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	VEG1910DW42307MileRe	<	2.0		ng/L		-244			0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	SS-HFPO-DA-13C3	537.1	N/A	IEG1910DW42307MileR		31.0020	40.0	ng/L	95	70 - 130			0.82	12/05/2019 08:20	12/07/2019 02:08	4497655
FS	Perfluorooctanoic acid (PFOA)	537.1	2.0	IEG1910DW43607MileRe	<	2.0		ng/L	244		5-44		0.81	12/05/2019 08:20	12/07/2019 02:25	4497656
FS	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	IEG1910DW43607MileRe	<	2.0		ng/L					0.81	12/05/2019 08:20	12/07/2019 02:25	4497656
FS	IS-NMeFOSAA-d3	537.1	N/A	IEG1910DW43607MileRe		332974	351807	ng/L	95	50 - 150			0.81	12/05/2019 08:20	12/07/2019 02:25	4497656
FS	IS-PFOA-13C2	537.1	N/A	IEG1910DW43607MileRe		957609	989089	ng/L	97	50 - 150			0.81	12/05/2019 08:20	12/07/2019 02:25	4497656

Sample	Analyte	Method	MRL	Client ID	Result	Amount	Target	Units	%	Recovery	PPD	RPD	Dil	Extracted	Analyzed	EEA
Type	Analyte	Wethou	INIKL	Client ID	Flag	Amount	rarget	Units	Recovery	Limits	KFD	Limit	Factor	Extracted	Allalyzeu	ID#
FS	IS-PFOS-13C4	537.1	N/A	VEG1910DW43607MileR	-1	309450	325210	ng/L	95	50 - 150			0.81	12/05/2019 08:20	12/07/2019 02:25	449765
FS	SS-NEtFOSAA-d5	537.1	N/A	JEG1910DW43607MileR		111.8200	160	ng/L	86	70 - 130			0.81	12/05/2019 08:20	12/07/2019 02:25	449765
FS	SS-PFDA-13C2	537.1	N/A	IEG1910DW43607MileRe		29.9131	40.0	ng/L	92	70 - 130			0.81	12/05/2019 08:20	12/07/2019 02:25	449765
FS	SS-PFHxA-13C2	537.1	N/A	VEG1910DW43607MileRe		30.4515	40.0	ng/L	94	70 - 130			0.81	12/05/2019 08:20	12/07/2019 02:25	449765
FS	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	VEG1910DW43607MileRe		2.1		ng/L					0.81	12/05/2019 08:20	12/07/2019 02:25	449765
FS	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	VEG1910DW43607MileRe	<	2.0		ng/L			225		0.81	12/05/2019 08:20	12/07/2019 02:25	449765
FS	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	IEG1910DW43607MileRe	<	2.0		ng/L		,			0.81	12/05/2019 08:20	12/07/2019 02:25	449765
FS	Perfluorononanoic acid (PFNA)	537.1	2.0	JEG1910DW43607MileRe	<	2.0		ng/L			5 <del></del> -1		0.81	12/05/2019 08:20	12/07/2019 02:25	449765
FS	Perfluorodecanoic acid (PFDA)	537.1	2.0	VEG1910DW43607MileRo	<	2.0		ng/L			-		0.81	12/05/2019 08:20	12/07/2019 02:25	449765
FS	Perfluorohexanoic acid (PFHxA)	537.1	2.0	VEG1910DW43607MileR	<	2.0		ng/L	-		, <del></del> -		0.81	12/05/2019 08:20	12/07/2019 02:25	449765
FS	Perfluorododecanoic acid (PFDoA)	537.1	2.0	JEG1910DW43607MileRe	<	2.0		ng/L					0.81	12/05/2019 08:20	12/07/2019 02:25	449765
FS	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	JEG1910DW43607MileRe	<	2.0		ng/L			5	-	0.81	12/05/2019 08:20	12/07/2019 02:25	449765
FS	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	VEG1910DW43607MileRo	<	2.0		ng/L			-		0.81	12/05/2019 08:20	12/07/2019 02:25	449765
FS	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	JEG1910DW43607MileR	<	2.0		ng/L	1				0.81	12/05/2019 08:20	12/07/2019 02:25	449765
FS	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	JEG1910DW43607MileR	<	2.0		ng/L					0.81	12/05/2019 08:20	12/07/2019 02:25	449765
FS	HFPO-DA/GenX	537.1	2.0	JEG1910DW43607MileR	<	2.0		ng/L					0.81	12/05/2019 08:20	12/07/2019 02:25	449765
FS	ADONA	537.1	2.0	VEG1910DW43607MileR	<	2.0		ng/L		-	-		0.81	12/05/2019 08:20	12/07/2019 02:25	449765
FS	9CI-PF3ONS/F-53B Major	537.1	2.0	IEG1910DW43607MileR	<	2.0		ng/L	1		-		0.81	12/05/2019 08:20	12/07/2019 02:25	449765
FS	11CI-PF3OUdS/F-53B Minor	537.1	2.0	JEG1910DW43607MileR	<	2.0		ng/L	1				0.81	12/05/2019 08:20	12/07/2019 02:25	449765
FS	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	JEG1910DW43607MileRe	<	2.0		ng/L			-		0.81	12/05/2019 08:20	12/07/2019 02:25	449765
FS	SS-HFPO-DA-13C3	537.1	N/A	VEG1910DW43607MileRe		30.3105	40.0	ng/L	94	70 - 130	-		0.81	12/05/2019 08:20	12/07/2019 02:25	449765
FS	Perfluorooctanoic acid (PFOA)	537.1	2.0	NEG1910DWQCFB02	<	2.0		ng/L					0.89	12/05/2019 08:20	12/07/2019 02:42	449765
FS	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	NEG1910DWQCFB02	<	2.0		ng/L		-222			0.89	12/05/2019 08:20	12/07/2019 02:42	449765
FS	IS-NMeFOSAA-d3	537.1	N/A	NEG1910DWQCFB02		341007	351807	ng/L	97	50 - 150	-		0.89	12/05/2019 08:20	12/07/2019 02:42	449765
FS	IS-PFOA-13C2	537.1	N/A	NEG1910DWQCFB02		978825	989089	ng/L	99	50 - 150	-		0.89	12/05/2019 08:20	12/07/2019 02:42	449765
FS	IS-PFOS-13C4	537.1	N/A	NEG1910DWQCFB02		317860	325210	ng/L	98	50 - 150	-		0.89	12/05/2019 08:20	12/07/2019 02:42	449765
FS	SS-NEtFOSAA-d5	537.1	N/A	NEG1910DWQCFB02		121.4310	160	ng/L	85	70 - 130			0.89	12/05/2019 08:20	12/07/2019 02:42	449765
FS	SS-PFDA-13C2	537.1	N/A	NEG1910DWQCFB02		33.8365	40.0	ng/L	95	70 - 130			0.89	12/05/2019 08:20	12/07/2019 02:42	449765
FS	SS-PFHxA-13C2	537.1	N/A	NEG1910DWQCFB02		33.5541	40.0	ng/L	94	70 - 130			0.89	12/05/2019 08:20	12/07/2019 02:42	449765
FS	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	NEG1910DWQCFB02	<	2.0		ng/L			-		0.89	12/05/2019 08:20	12/07/2019 02:42	449765
FS	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	NEG1910DWQCFB02	<	2.0		ng/L	***	***			0.89	12/05/2019 08:20	12/07/2019 02:42	449765
FS	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	NEG1910DWQCFB02	<	2.0		ng/L	**	1775	-		0.89	12/05/2019 08:20	12/07/2019 02:42	449765
FS	Perfluorononanoic acid (PFNA)	537.1	2.0	NEG1910DWQCFB02	<	2.0		ng/L					0.89	12/05/2019 08:20	12/07/2019 02:42	449765
FS	Perfluorodecanoic acid (PFDA)	537.1	2.0	NEG1910DWQCFB02	<	2.0		ng/L					0.89	12/05/2019 08:20	12/07/2019 02:42	449765
FS	Perfluorohexanoic acid (PFHxA)	537.1	2.0	NEG1910DWQCFB02	<	2.0		ng/L					0.89	12/05/2019 08:20	12/07/2019 02:42	449765
FS	Perfluorododecanoic acid (PFDoA)	537.1	2.0	NEG1910DWQCFB02	<	2.0		ng/L					0.89	12/05/2019 08:20	12/07/2019 02:42	449765
FS	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	NEG1910DWQCFB02	<	2.0		ng/L	**				0.89	12/05/2019 08:20	12/07/2019 02:42	449765
FS	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	NEG1910DWQCFB02	<	2.0		ng/L					0.89	12/05/2019 08:20	12/07/2019 02:42	449765
FS	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	NEG1910DWQCFB02	<	2.0		ng/L					0.89	12/05/2019 08:20	12/07/2019 02:42	449765
FS	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	NEG1910DWQCFB02	<	2.0		ng/L	-	224			0.89	12/05/2019 08:20	12/07/2019 02:42	449765
FS	HFPO-DA/GenX	537.1	2.0	NEG1910DWQCFB02	<	2.0		ng/L			_		0.89	12/05/2019 08:20	12/07/2019 02:42	449765

					QC S	ummary Re	port (cont.)									
Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD		Dil Factor	Extracted	Analyzed	EEA ID#
FS	ADONA	537.1	2.0	NEG1910DWQCFB02	<	2.0		ng/L			-		0.89	12/05/2019 08:20	12/07/2019 02:42	4497657
FS	9CI-PF3ONS/F-53B Major	537.1	2.0	NEG1910DWQCFB02	<	2.0		ng/L		-			0.89	12/05/2019 08:20	12/07/2019 02:42	4497657
FS	11CI-PF3OUdS/F-53B Minor	537.1	2.0	NEG1910DWQCFB02	<	2.0		ng/L			-		0.89	12/05/2019 08:20	12/07/2019 02:42	4497657
FS	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	NEG1910DWQCFB02	<	2.0		ng/L					0.89	12/05/2019 08:20	12/07/2019 02:42	4497657
FS	SS-HFPO-DA-13C3	537.1	N/A	NEG1910DWQCFB02		33.0634	40.0	ng/L	93	70 - 130			0.89	12/05/2019 08:20	12/07/2019 02:42	4497657
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	2-2		97.5790	100	ng/L	98	70 - 130			1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	-		96.8369	100	ng/L	97	70 - 130	-		1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
CCM	IS-NMeFOSAA-d3	537.1	N/A			319697	319697	ng/L	100	50 - 150	5 <b></b> - d		1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
CCM	IS-PFOA-13C2	537.1	N/A	-		917583	917583	ng/L	100	50 - 150			1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
CCM	IS-PFOS-13C4	537.1	N/A	-		296534	296534	ng/L	100	50 - 150	25-0		1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
CCM	SS-NEtFOSAA-d5	537.1	N/A			154.1890	160	ng/L	96	70 - 130			1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
CCM	SS-PFDA-13C2	537.1	N/A	-		39.1950	40.0	ng/L	98	70 - 130			1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
CCM	SS-PFHxA-13C2	537.1	N/A			37.7315	40.0	ng/L	94	70 - 130			1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	-		94.0756	100	ng/L	94	70 - 130			1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	_		96.9031	100	ng/L	97	70 - 130			1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	-		96.2672	100	ng/L	96	70 - 130	5 /		1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0			97.1333	100	ng/L	97	70 - 130	()		1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0			97.0005	100	ng/L	97	70 - 130			1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0			94.2031	100	ng/L	94	70 - 130			1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0			95.5610	100	ng/L	96	70 - 130		-	1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0			95.1752	100	ng/L	95	70 - 130		-44	1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	_		95.3922	100	ng/L	95	70 - 130			1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
CCM	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0			96.2658	100	ng/L	96	70 - 130			1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
ССМ	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1	2.0	-		97.0553	100	ng/L	97	70 - 130			1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
CCM	HFPO-DA/GenX	537.1	2.0			95.8287	100	ng/L	96	70 - 130			1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
ССМ	ADONA	537.1	2.0	_		98.2822	100	ng/L	98	70 - 130	-		1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
CCM	9CI-PF3ONS/F-53B Major	537.1	2.0	-		98.4451	100	ng/L	98	70 - 130			1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
CCM	11CI-PF3OUdS/F-53B Minor	537.1	2.0			97.1691	100	ng/L	97	70 - 130			1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	-		95.7576	100	ng/L	96	70 - 130			1.0	12/05/2019 14:50	12/07/2019 04:07	4504302
CCM	SS-HFPO-DA-13C3	537.1	N/A			37.9963	40.0	ng/L	95	70 - 130			1.0	12/05/2019 14:50	12/07/2019 04:07	4504302

Samp	le Type	Kev

Type (Abbr.)	Sample Type	Type (Abbr.)	Sample Type
CCL	Continuing Calibration Low		A. S.
CCM	Continuing Calibration Mid		
FD	Field Duplicate		
FS	Field Sample		
FBL	Fortified Blank Low		
FBM	Fortified Blank Mid		
LRB	Laboratory Reagent Blank		

# END OF REPORT

# SP-537.1 EXTRACTION RECORD

Prep Batch: 75165

ALL ALL LFB, LFSM/LFSMD N/A N/A	See Logbook printout for procedure start time:  See attached logbook printout for samples in batch.  Mixed Surrogate Stock @ 1.0 ug/mL in terms of PFHxA-13C2  Prep Log #: <u>DP-S0C-135-69 b</u> Exp. Date: <u>12/64/2020 10 uL added: Conc; 40 ng/L</u> Mixed Analyte Substock @ 0.25 ug/mL in 96% MeOH in RW  Prep Log #: <u>OP-S0C-135-43 C</u> Exp. Date: <u>D9/67/2020</u> Mixed Analyte Substock @ 0.025 ug/mL in 96% MeOH in RW  Prep Log #: <u>OP-S0C-135-43 C</u> Exp. Date: <u>D9/67/2020</u>
LFB, LFSM/LFSMD N/A	See attached logbook printout for samples in batch.  Mixed Surrogate Stock @ 1.0 ug/mL in terms of PFHxA-13C2  Prep Log #: D\$-50c-135-49
LFB, LFSM/LFSMD N/A	Mixed Surrogate Stock @ 1.0 ug/mL in terms of PFHxA-13C <sub>2</sub> Prep Log #: <u>D\$-50c-135-49 6</u> Exp. Date: <u>12/04/2020</u> <u>10</u> uL added: Conc; <u>40</u> ng/L  Mixed Analyte Substock @ 0.25 ug/mL in 96% MeOH in RW  Prep Log #: <u>O\$-50c-135-436</u> Exp. Date: <u>D\$/67/2020</u> Mixed Analyte Substock @ 0.025 ug/mL in 96% MeOH in RW
N/A	Mixed Analyte Substock @ 0.25 ug/mL in 96% MeOH in RW  Prep Log #: 01-506-135-436 Exp. Date: 05/67/2020  Mixed Analyte Substock @ 0.025 ug/mL in 96% MeOH in RW
N/A	Prep Log #: <u>01-50(-135-434</u> Exp. Date: <u>05/67/2020</u> Mixed Analyte Substock @ 0.025 ug/mL in 96% MeOH in RW
	Prep Log #: <u>01-50(-135-434</u> Exp. Date: <u>05/67/2020</u> Mixed Analyte Substock @ 0.025 ug/mL in 96% MeOH in RW
N/A	Mixed Analyte Substock @ 0.025 ug/mL in 96% MeOH in RW
	7 11 11 200
FBL	20uL added: Conc:2ng/L
FB <u>M</u>	100 uL added: Conc: 100 ng/L
LFSM <u>M</u> /LFSMD <u>M</u> A	uL added: Conc: L0cng/L
ALL	Extracted according to 537.1 SOP  SPE Cartridge MFG: Phenomenee Type: 50 BL Lot #: 5)14-0696  Methanol MFG: Fisher Lot #: 194364 Grade: Optimo LUM 96% Methanol in Reagent Water Prep Log #: 00-506-126-14A
ALL	Other reagents:  Pre-Preserved Bottles: Tris HCI Lot # 51.613.241 Tris Lot #: 51.48.756  Milli-Q Reagent Water: Date of collection: 13/05/2019
ALL	Mixed Internal Std Stock @ 1.0 ug/mL in terms of PFOA- <sup>13</sup> C <sub>2</sub> Prep Log #:   Onc: 40 ng/L  Exp. Date: L1/65/1000 (C uL added: Conc: 40 ng/L
Observations	LRB transferred to autosampler wal mithaut being meniously vortexed. Sample was transferred back into 15 ml conital tube, vortex, I transferred back into Mu appropriate vial.
	was transferred back into 15 ml conital tube, vortex is transferred back into M

# SP - ORGANIC EXTRACTION WEIGHT + PRESERVATIVE CHECK RECORD

Balance ID: B4

Sample 1D	Sample pH(1) Out of range? Yes(Y)/No(N)/ NA	Free Chlorine Residual (1) Present(P) / Absent(A) / NA	Sample & Cont Wgt (g) (2)	Cont Wgt (g)	Sample Vol extracted (mL) (3)	Correction Factor (4)
LRB	NA	NA	301	27	274	0.91
FBL	NA	NA	301	27	274	0.91
FBM	NA	NA	301	27	274	0.91
FSMM 449604	6 NA	NA	314	27	287	0.87
FD 4497653	NA	NA	328	21	307	0.81
					0	#DIV/0!
4496046	NA	NA	282	27	255	0.98
4497653	NA	NA	314	22	292	0.86
4497654	NA	NA	338	21	317	0.79
4497655	NA	NA	326	21	305	0.82
4497656	NA	NA	332	22	310	0.81
4497657	NA	NA	303	22	281	0.89
4496376	NA	NA	313	28	285	0.88
4496378	NA	NA	311	27	284	0.88
4496380	NA	NA	317	27	290	0.86
4496382	NA	NA	321	27	294	0.85
4496384	NA	NA	318	28	290	0.86
4496386	NA	NA	317	27	290	0.86
4498067	NA	NA	295	31	264	0.95
4498068	NA	NA	295	34	261	0.96
4498887	NA	NA	304	28	276	0.91
4491675	NA	NA	307	28	279	0.90
4491676	NA	NA	313	28	285	0.88
4491677	NA	NA	309	28	281	0.89
4491678	NA	NA	322	28	294	0.85
1700 - 2000	an Should the first				0	#DIV/0!
		100 March 100 Ma		1	0	#DIV/0!
umitr.					0	#DIV/0!
					0	#DIV/01
				1	0	#DIV/0!
					0	#DIV/0!
				1	0	#DIV/0!

- (1) Refer to Method Extraction Record for out of range criteria. For all samples with pH outside of acceptable and/or Residual chlorine present, action taken must be documented on Extraction Record.
- (2) Sample weight may be determined without container if poured directly in extraction vessel.
- (3) Sample volume (mL) = Sample & container weight (g) container weight (g)
- (4) Correction factor = method required volume (mL)/sample volume extracted (mL) Rounding of the correction factor performed by the Excel Application.

Comments:	-	 	4		
			, spectrum		
Technician:	MWC	 		Date: 5-Dec-19	× *** × ** · · · · · · · · · · · · · · ·

	Out of range? Yes(Y)/No(N)/NA	Free Chlorine Residuat (1) Present(P) / Absent(A) / NA	Sample & Cont Wgt (g) (2)	Cont Wgt (g)	Sample Vol extracted (mL) (3)	Corre Fac (4
LRB	NA	NA	301	27	0	#DI
FBL			30(	27	0	#DI
FBM			301	27	0	#DI
LPSKIN 4496046			314	27	. 0	#DI
Fn 4497663		V/	3,78	21	0	#DI\
					0	#DI\
449/1046	MA	NA S	10/2013+4 282	27	0	#DI\
2653			314	22	0	#DI\
7/54			336	21	0	#DI\
7699			376	14	0	#DI\
7656			332	32	0	#DI\
1657			303	22	0	#DI\
-4374-			713 MOS/2017		0	#DI\
6376			313	28	0	#DI\
(37/)			311	17	0	#DI\
6380			317	27	0	#DI\
6382		1,500,0	321	27	0	#DI\
6384			318	28	0	#DI\
6386			217	27	0	#DI
8067			295	31	0	#DI
8014		*****	295	24	0	#DI\
8887			304	28	0	#DI
1675			307	28	0	#DI
1676	,		313	28	0	#DI
7667	The state of the s	The second secon	303- 17661		0	#DI
1677			307		0	#DI
1674		1	37)	28 24	0	#DI
16 ( 0			7.4		0	#DI
	***************************************				0	#DI
	-				0	#DI
		Water Company			0	#DI
<u></u>					0	#DI

# SP-537/537.1 CALIBRATION RECORD

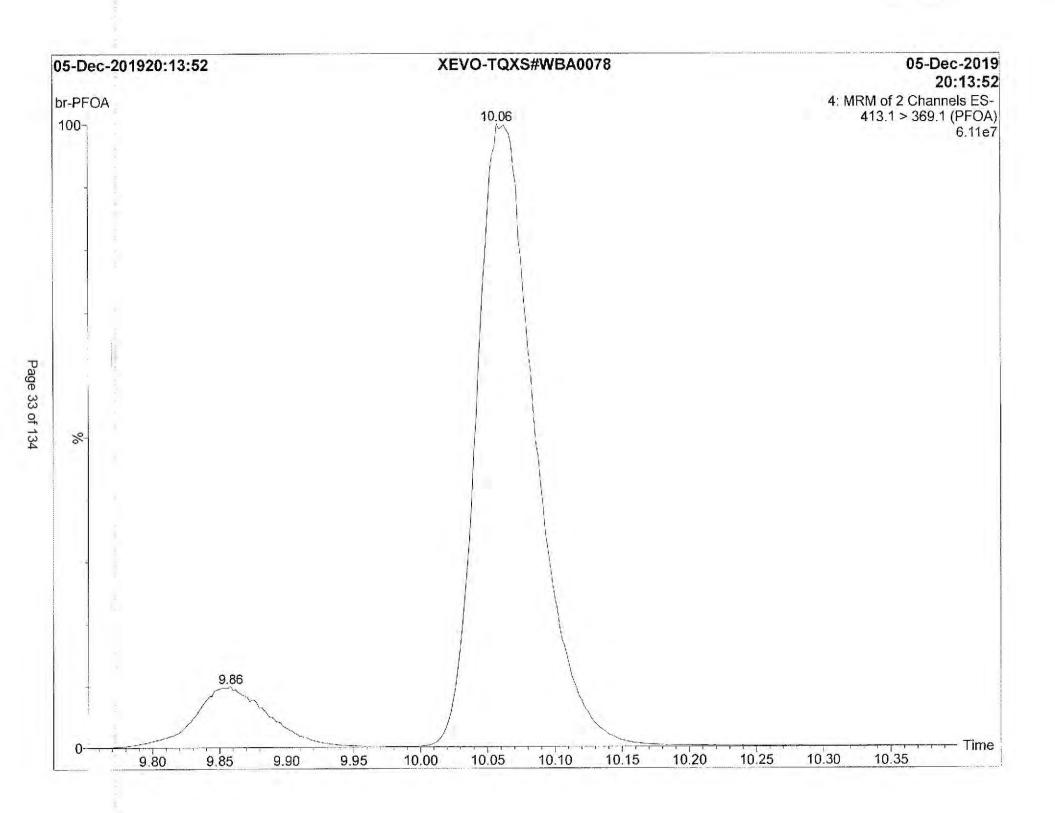
Prep Batch: 75170

Sample Type	Comments				
All	96% Methanol in Reag	ent Water P	rep Log #: <u>@P-S0(-1)</u>	6-14A	
All	Added 10 uL Internal S	Standard Stock @ 1.0 ug/ml	in terms of IS-PFOA	- <sup>13</sup> C <sub>2.</sub>	
	Mixed IS Prep Log #:	OP-50C-135-94c	Exp. Date:	12/09/2020	
All	Added 10 uL Surrogate	e Standard Stock @ 1.0* ug	/mL in terms of SS-P	FHxA- <sup>13</sup> C₂.	
	Mixed SS Prep Log #:	OP-50(-135-89B	Exp. Date:	12/04/2020	
ICL/ICS/CCC					
	537 Mixed Analyte Sub	ostock @ 0.25 ug/mL	Evn Date:	05/07/2020	
	Prep Log #:		-		
	537 Mixed Analyte Sub	08-506-134-80c	Eva Data:	09/07/2020	
	Prep Log #:			V. C.	
	A	n s.c. complete the fin 4 mal	000/ Mathanal in Page	ent Mater	
44		ollowing concentrations in 1mL		iii vvalei	
2.0 ng/L		ixed Analyte Substock @ 0.			
10 ng/L		ixed Analyte Substock @ 0.			
50 ng/L	IAdded 50 uL of 537 M	ixed Analyte Substock @ 0.	25 ug/mic		
		P. C. A. C. B. C. B. L. C. B. C.	O O E varioni		
100 ng/L	Added 100 uL of 537 M	Mixed Analyte Substock @			
100 ng/L 200 ng/L	Added 100 uL of 537 M Added 200 uL of 537 M	Mixed Analyte Substock @	0.25 ug/mL		
100 ng/L 200 ng/L 250 ng/L	Added 100 uL of 537 M Added 200 uL of 537 M Added 250 uL of 537 M	Mixed Analyte Substock @ Mixed Analyte Substock @	0.25 ug/mL		
100 ng/L 200 ng/L	Added 100 uL of 537 M Added 200 uL of 537 M	Mixed Analyte Substock @ Mixed Analyte Substock @	0.25 ug/mL		
100 ng/L 200 ng/L 250 ng/L LIB	Added 100 uL of 537 M Added 200 uL of 537 M Added 250 uL of 537 M Add only IS and SS as Mixed QCS Substock	Mixed Analyte Substock @ Mixed Analyte Substock @ Mixed Analyte Substock @ Mixed Above.  @ 0.25 ug/mL	0.25 ug/mL 0.25 ug/mL	MW/66/2019	
100 ng/L 200 ng/L 250 ng/L LIB	Added 100 uL of 537 M Added 200 uL of 537 M Added 250 uL of 537 M Add only IS and SS as Mixed QCS Substock	Mixed Analyte Substock @ Mixed Analyte Substock @ noted above.	0.25 ug/mL 0.25 ug/mL	100/2019 002/0- 00/20/202	
100 ng/L 200 ng/L 250 ng/L	Added 100 uL of 537 M Added 200 uL of 537 M Added 250 uL of 537 M Add only IS and SS as Mixed QCS Substock Mixed QCS Prep Logs	Mixed Analyte Substock @ Mixed Analyte Substock @ Mixed Analyte Substock @ Mixed Above.  @ 0.25 ug/mL	0.25 ug/mL 0.25 ug/mL Exp. Date:	105/6/2019 102/0- 02/22/202	
100 ng/L 200 ng/L 250 ng/L LIB	Added 100 uL of 537 M Added 200 uL of 537 M Added 250 uL of 537 M Add only IS and SS as Mixed QCS Substock Mixed QCS Prep Logs Prepared at 100 ng/L s	Mixed Analyte Substock @ Mixed Analyte Substock @ Mixed Analyte Substock @ Mixed Above.  @ 0.25 ug/mL #: 07-50 ( - [33-10]5	0.25 ug/mL 0.25 ug/mL Exp. Date: standards	100/2019 102/0- 00/20/202	

Is double grited in ICS@ 250, new ICS@ 250 made 12/06/2019. - pure 12/06/2019

06-LO-F0930 Issue: 2.0

Effective Date: 2019-10-18 Page 32 of 134



# Quantify Calibration Report MassLynx 4.1 SCN810

PFAS by ESI/LC/MS/MS

Dataset: C:\FL\537.1\120619M537.1b-FL.pro\120619M537.1b-FL.qld

Last Altered: Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

Method: C:\FL\537.1\120619M537.1b-FL.pro\MethDB\120619M537\_1b-FL.mdb 11 Dec 2019 16:40:12

Calibration: 11 Dec 2019 17:29:47

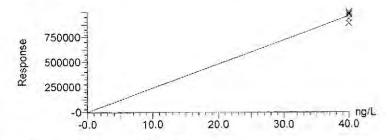
Compound name: IS-PFOA-13C2

Response Factor: 23995.6

RRF SD: 1076.42, % Relative SD: 4.48588

Response type: External Std, Area

Curve type: RF



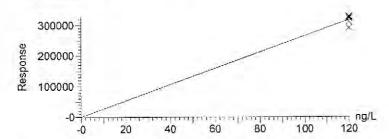
Compound name: IS-PFOS-13C4

Response Factor: 2650.25

RRF SD: 124.946, % Relative SD: 4.7145

Response type: External Std, Area

Curve type: RF



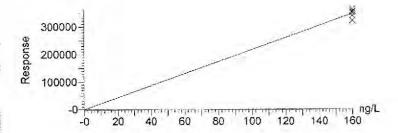
Compound name: IS-NMeFOSAA-d3

Response Factor: 2165.85

RRF SD: 94.3292, % Relative SD: 4.3553

Response type: External Std, Area

Curve type: RF



Dataset:

C:\FL\537.1\120619M537.1b-FL.pro\120619M537.1b-FL.qld

Last Altered:

Thursday, December 12, 2019 09:37:11 Eastern Standard Time

Printed:

Thursday, December 12, 2019 09:43:58 Eastern Standard Time

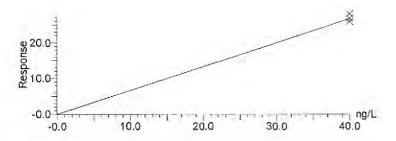
Compound name: SS-PFHxA-13C2

Response Factor: 0.665266

RRF SD: 0.0198359, % Relative SD: 2.98165

Response type: Internal Std ( Ref 1 ), Area \* ( IS Conc. / IS Area )

Curve type: RF



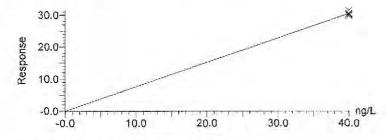
Compound name: SS-PFDA-13C2

Response Factor: 0.760792

RRF SD: 0.0142954, % Relative SD: 1.87901

Response type: Internal Std (Ref 1), Area \* (IS Conc. / IS Area)

Curve type: RF



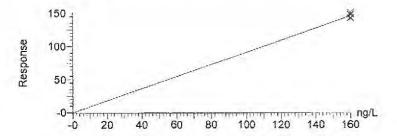
Compound name: SS-NEtFOSAA-d5

Response Factor: 0.908869

RRF SD: 0.0243692, % Relative SD: 2.68126

Response type: Internal Std ( Ref 3 ), Area \* ( IS Conc. / IS Area )

Curve type: RF



Dataset:

C:\FL\537.1\120619M537.1b-FL.pro\120619M537.1b-FL.qld

Last Altered: Printed: Thursday, December 12, 2019 09:37:11 Eastern Standard Time

Thursday, December 12, 2019 09:43:58 Eastern Standard Time

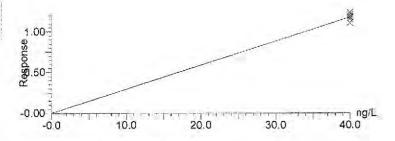
Compound name: SS-HFPO-DA-13C3

Response Factor: 0.029388

RRF SD: 0.00111563, % Relative SD: 3.79622

Response type: Internal Std (Ref 1), Area \* (IS Conc. / IS Area)

Curve type: RF

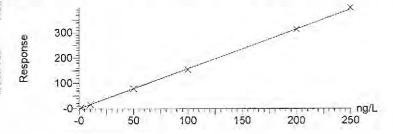


Compound name: PFBS

Coefficient of Determination: R^2 = 0.999745

Calibration curve: 1.56713 \* x

Response type: Internal Std (Ref 2), Area \* (IS Conc. / IS Area) Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

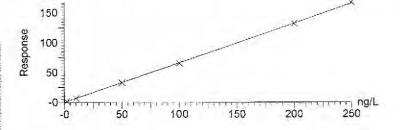


Compound name: PFHxA

Coefficient of Determination: R^2 = 0.999891

Calibration curve: 0.660398 \* x

Response type: Internal Std ( Ref 1 ), Area \* ( IS Conc. / IS Area ) Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



C:\FL\537.1\120619M537.1b-FL.pro\120619M537.1b-FL.qld

Last Altered: Printed:

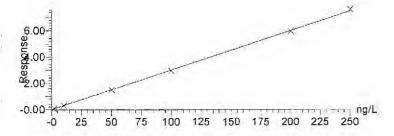
Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

Compound name: HFPO-DA/GenX

Coefficient of Determination: R^2 = 0.999758

Calibration curve: 0.0300767 \* x

Response type: Internal Std (Ref 1), Area \* (IS Conc. / IS Area) Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

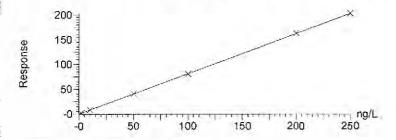


Compound name: PFHpA

Coefficient of Determination: R^2 = 0.999960

Calibration curve: 0.810116 \* x

Response type: Internal Std ( Ref 1 ), Area \* ( IS Conc. / IS Area ) Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

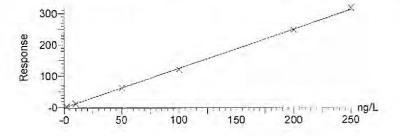


Compound name: PFHxS

Coefficient of Determination: R^2 = 0.999663

Calibration curve: 1.24927 \* x

Response type: Internal Std (Ref 2), Area \* (IS Conc. / IS Area) Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



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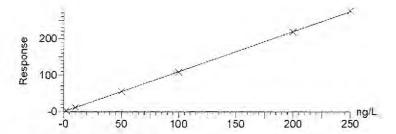
Last Altered: Printed: Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

Compound name: ADONA

Coefficient of Determination: R^2 = 0.999930

Calibration curve: 1.09478 \* x

Response type: Internal Std (Ref 1), Area \* (IS Conc. / IS Area) Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

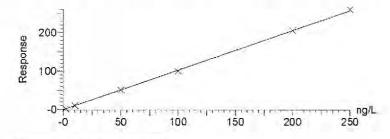


Compound name: PFOA

Coefficient of Determination: R^2 = 0.999784

Calibration curve: 1.02922 \* x

Response type: Internal Std ( Ref 1 ), Area \* ( IS Conc. / IS Area ) Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

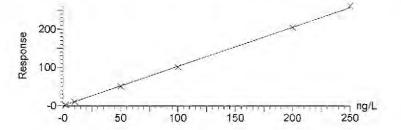


Compound name: PFOS

Coefficient of Determination: R^2 = 0.999649

Calibration curve: 1.02543 \* x

Response type: Internal Std ( Ref 2 ), Area \* ( IS Conc. / IS Area ) Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Dataset.

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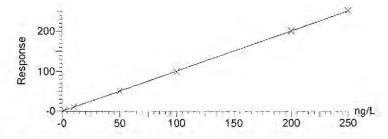
Last Altered: Printed: Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

Compound name: PFNA

Coefficient of Determination: R^2 = 0.999927

Calibration curve: 1.00055 \* x

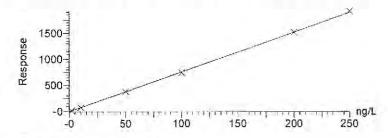
Response type: Internal Std (Ref 1), Area \* (IS Conc. / IS Area) Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Compound name: 9CI-PF3ONS/F-53B major Coefficient of Determination: R^2 = 0.999843

Calibration curve: 7.58389 \* x

Response type: Internal Std (Ref 2), Area \* (IS Conc. / IS Area) Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

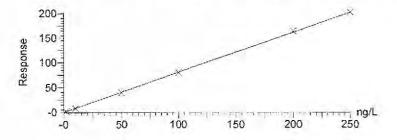


Compound name: PFDA

Coefficient of Determination: R^2 = 0.999833

Calibration curve: 0.809527 \* x

Response type: Internal Std ( Ref 1 ), Area \* ( IS Conc. / IS Area ) Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



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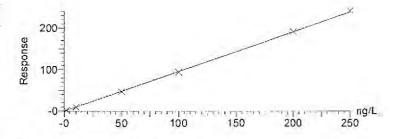
Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

Compound name: NMeFOSAA

Coefficient of Determination: R^2 = 0.999756

Calibration curve: 0.951429 \* x

Response type: Internal Std ( Ref 3 ), Area \* ( IS Conc. / IS Area ) Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

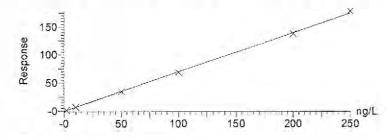


Compound name: PFUnA

Coefficient of Determination: R^2 = 0.999657

Calibration curve: 0.698899 \* x

Response type: Internal Std ( Ref 1 ), Area \* ( IS Conc. / IS Area ) Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

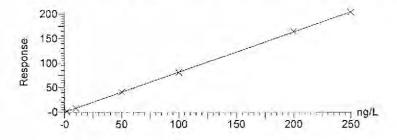


Compound name: NEtFOSAA

Coefficient of Determination: R^2 = 0.999928

Calibration curve: 0.813937 \* x

Response type: Internal Std ( Ref 3 ), Area \* ( IS Conc. / IS Area ) Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



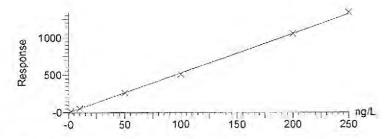
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Last Altered: Printed: Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

Compound name: 11CI-PF3OUdS/F-53B minor Coefficient of Determination: R^2 = 0.999607

Calibration curve: 5.2553 \* x

Response type: Internal Std ( Ref 2 ), Area \* ( IS Conc. / IS Area ) Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

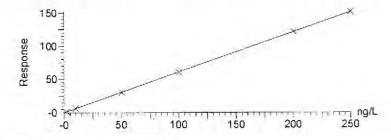


Compound name: PFDoA

Coefficient of Determination: R^2 = 0.999964

Calibration curve: 0.605661 \* x

Response type: Internal Std ( Ref 1 ), Area \* ( IS Conc. / IS Area ) Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None

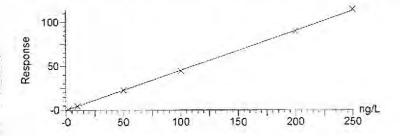


Compound name: PFTrDA

Coefficient of Determination: R^2 = 0.999829

Calibration curve: 0.450347 \* x

Response type: Internal Std (Ref 1), Area \* (IS Conc. / IS Area) Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



Quantify Calibration Report MassLynx 4.1 SCN810 PFAS by ESI/LC/MS/MS

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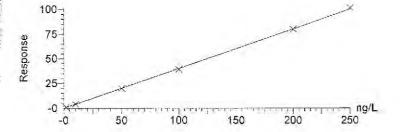
Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

Compound name: PFTeDA

Coefficient of Determination: R^2 = 0.999813

Calibration curve: 0.3993 \* x

Response type: Internal Std ( Ref 1 ), Area \* ( IS Conc. / IS Area ) Curve type: Linear, Origin: Force, Weighting: 1/x, Axis trans: None



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Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

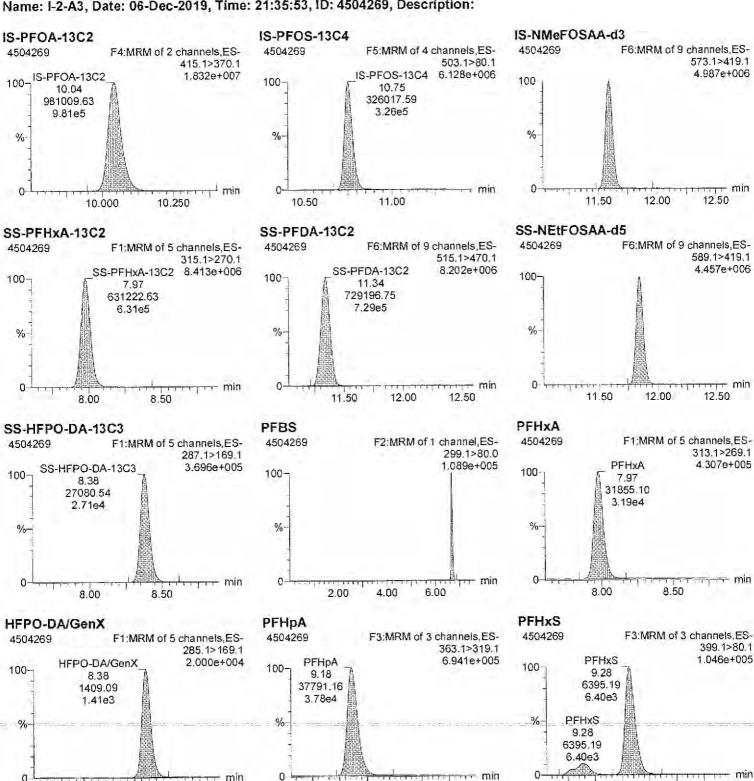
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Calibration: 11 Dec 2019 17:29:47

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8.50

Name: I-2-A3, Date: 06-Dec-2019, Time: 21:35:53, ID: 4504269, Description:



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9.500

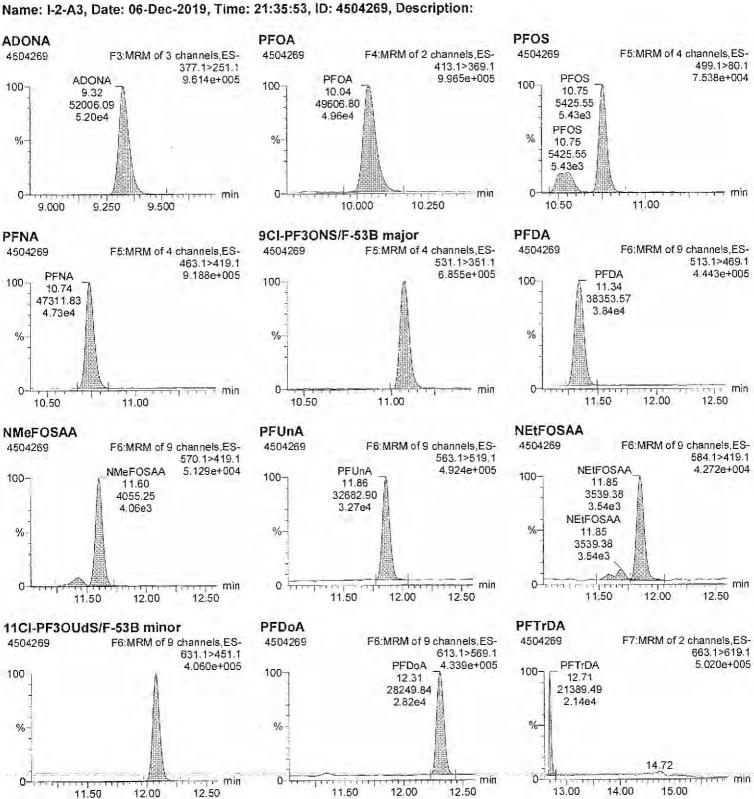
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Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

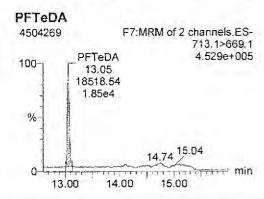


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Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

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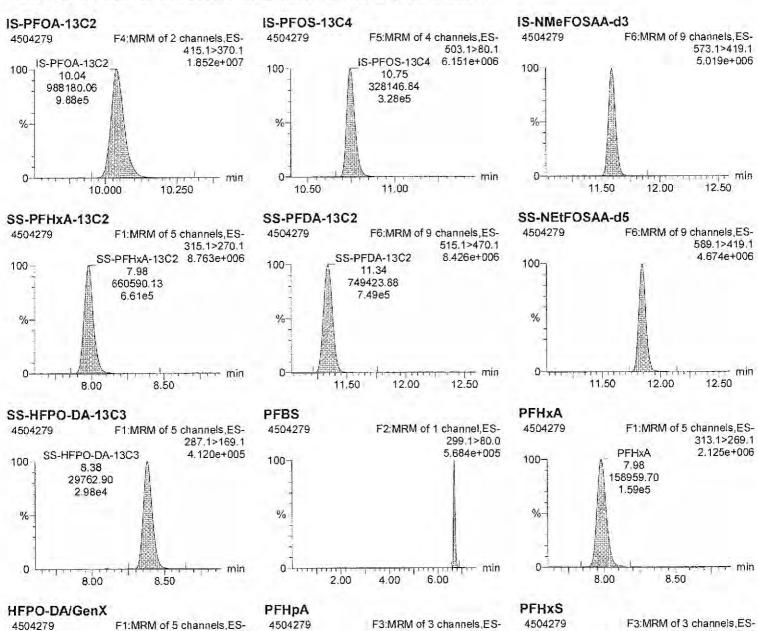


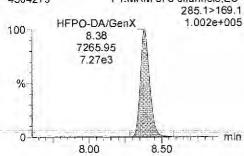
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1 IS-PFOA-13C2	10.04	981009,63		1.000	40.882823	102.2	bb			
2 IS-PFOS-13C4	10.75	326017.59		1.000	123.013759	102.5	bd			
3 IS-NMeFOSAA-d3	11.59	353611.72		1.000	163.267090	102.0	dd			
4 SS-PFHxA-13C2	7.97	631222.63	1	1.000	38.687782	96.7	bd			
5 SS-PFDA-13C2	11.34	729196.75	1	1.000	39.080973	97.7	dd			
6 SS-NEtFOSAA-d5	11.84	312892.63	3	1.000	155.771224	97.4	dd			
7 SS-HFPO-DA-13C3	8.38	27080.54	1	1.000	37.572861	93.9	bd			
8 PFBS	6.69	7986.61	2	1.000	1.875852	93.8	bb			
9 PFHxA	7.97	31855.10	1	1.000	1,966799	98.3	bb			
10 HFPO-DA/GenX	8.38	1409.09	1	1.000	1.910267	95.5	bb			
11 PFHpA	9.18	37791.16	1	1.000	1.902083	95.1	bb			
12 PFHxS	9.28	6395.19	2	1.000	1.884249	94.2	MM	SP-CM	11-Dec-19	17:08:08
13 ADONA	9.32	52006.09	1	1.000	1.936939	96.8	bb			
14 PFOA	10.04	49606.80	1	1.000	1.965266	98.3	bb			
15 PFOS	10.75	5425.55	2	1.000	1.947501	97.4	MM	SP-CM	11-Dec-19	17:18:03
16 PFNA	10.74	47311.83	1	1.000	1.928053	96.4	bb			
17 9CI-PF3ONS/F-53B major	11.08	40882.98	2	1.000	1.984225	99.2	dd			
18 PFDA	11.34	38353.57	1	1.000	1.931795	96.6	pp			
19 NMeFOSAA	11.60	4055.25	3	1,000	1.928565	96.4	MM	SP-CM	11-Dec-19	17:24:49
20 PFUnA	11.86	32682.90	1	1.000	1.906745	95.3	bb			
21 NEtFOSAA	11.85	3539.38	3	1.000	1.967567	98.4	MM	SP-CM	11-Dec-19	17:29:11
22 11CI-PF3OUdS/F-53B minor	12.07	27896.24	2	1.000	1.953836	97.7	bb			
23 PFDoA	12.31	28249.84	1	1.000	1.901836	95.1	bb			
24 PFTrDA	12.71	21389.49	1	1.000	1.936598	96.8	bb			
25 PFTeDA	13.05	18518.54	1	1.000	1.891013	94.6	bb			

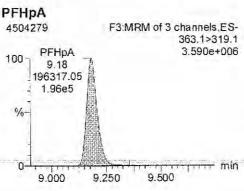
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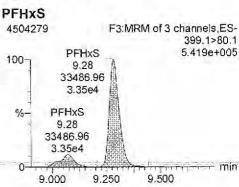
Last Altered: Printed: Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

# Name: I-10-A3, Date: 06-Dec-2019, Time: 21:52:57, ID: 4504279, Description:









min

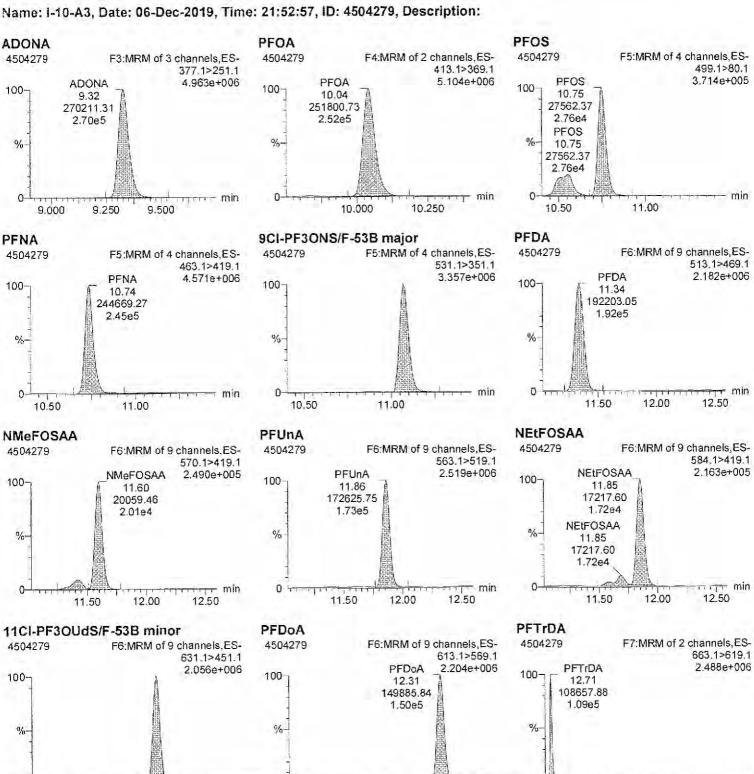
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Last Altered: Printed:

Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

Name: I-10-A3, Date: 06-Dec-2019, Time: 21:52:57, ID: 4504279, Description:



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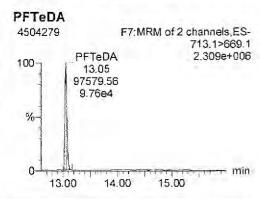
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Last Altered: Printed:

Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

Name: I-10-A3, Date: 06-Dec-2019, Time: 21:52:57, ID: 4504279, Description:



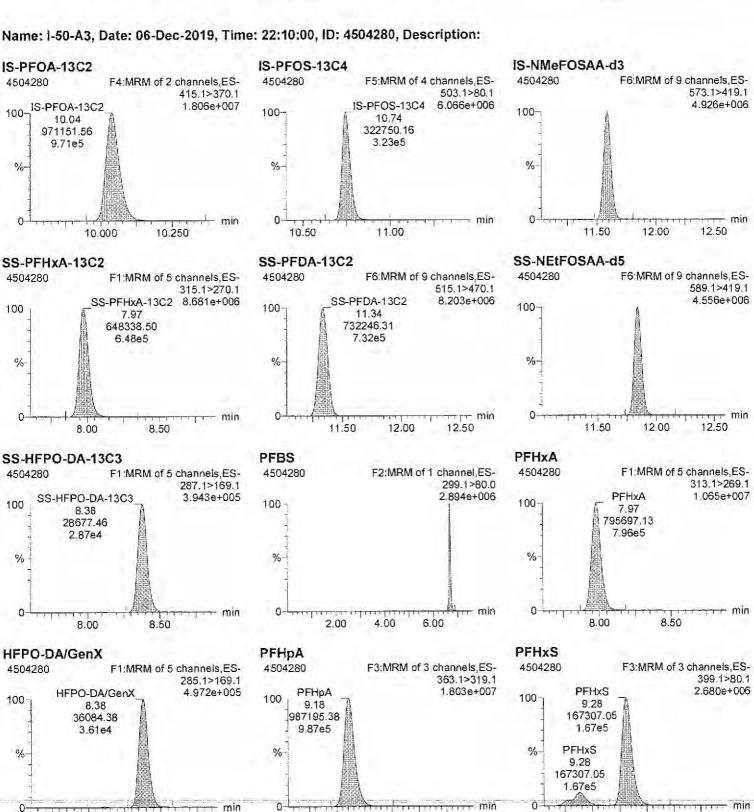
# Name (Section 1)	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod Commen	t Mod Date	Mod Time
1 IS-PFOA-13C2	10.04	988180.06	20 J. (20 J. (2)	1.000	41.181646	103.0	bb		Note the second second second second second	1)
2 IS-PFOS-13C4	10.75	328146.84		1.000	123.817173	103.2	bd			
3 IS-NMeFOSAA-d3	11,59	355150.59		1.000	163.977608	102.5	bb			
4 SS-PFHxA-13C2	7.98	660590.13	1	1.000	40.193936	100.5	bd			
5 SS-PFDA-13C2	11,34	749423.88	1	1,000	39.873591	99.7	bd			
6 SS-NEtFOSAA-d5	11.84	329051.59	3	1.000	163.106027	101.9	dd			
7 SS-HFPO-DA-13C3	8.38	29762.90	1	1.000	40.994852	102.5	bd			
8 PFBS	6.69	41552.07	2	1.000	9.696201	97.0	bb			
9 PFHxA	7.98	158959.70	1	1.000	9.743279	97.4	bb			
10 HFPO-DA/GenX	8.38	7265.95	1	1.000	9.778804	97.8	bb			
11 PFHpA	9.18	196317.05	1	1,000	9.809222	98.1	bb			
12 PFHxS	9.28	33486.96	2	1.000	9.802422	98.0	MM	SP-CM	11-Dec-19	17:08:15
13 ADONA	9.32	270211.31	1	1.000	9.990850	99.9	bb			
14 PFOA	10.04	251800.73	1	1.000	9.903170	99.0	bb			
15 PFOS	10.75	27562.37	2	1.000	9.829306	98.3	MM	SP-CM	11-Dec-19	17:17:56
16 PFNA	10.74	244669.27	1	1.000	9.898418	99.0	bb			
17 9CI-PF3ONS/F-53B major	11.07	199686.44	2	1.000	9.628747	96.3	bb			
18 PFDA	11.34	192203.05	1	1.000	9.610649	96.1	bb			
19 NMeFOSAA	11.60	20059.46	3	1.000	9.498399	95.0	MM	SP-CM	11-Dec-19	17:24:58
20 PFUnA	11.86	172625.75	1	1.000	9.998041	100.0	bb			
21 NEtFOSAA	11.85	17217.60	3	1.000	9.529918	95.3	MM	SP-CM	11-Dec-19	17:29:24
22 11CI-PF3OUdS/F-53B minor	12.07	140830.08	2	1.000	9.799649	98.0	bb			
23 PFDoA	12.31	149885.84	1	1.000	10.017395	100.2	db			
24 PFTrDA	12.71	108657.88	1	1.000	9.766465	97.7	bb			
25 PFTeDA	13.05	97579.56	1	1.000	9.891993	98.9	bb			

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Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

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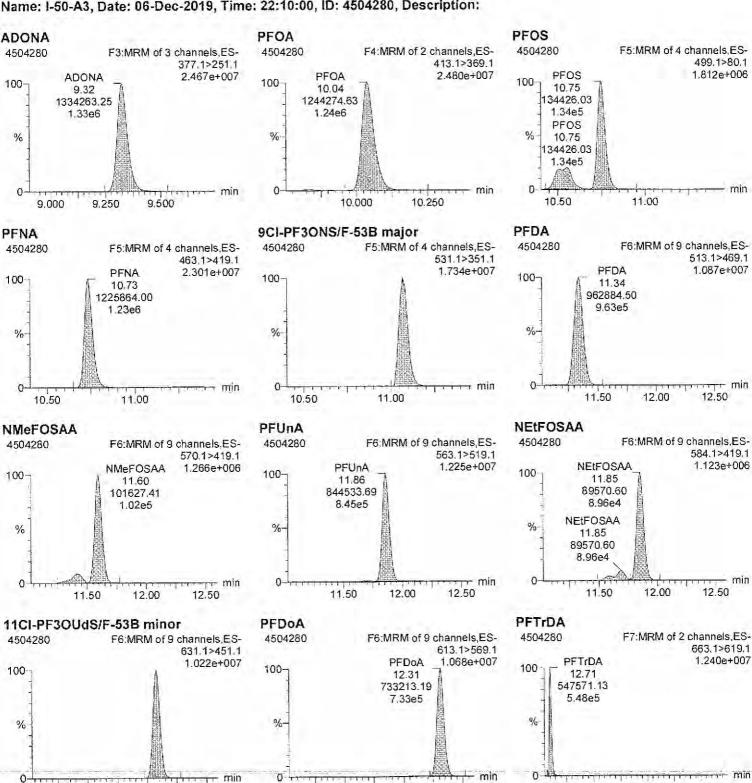
Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

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Quantify Sample Report PFAS by ESI/LC/MS/MS

Dataset:

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# PFTeDA 4504280 F7:MRM of 2 channels,ES713.1>669.1 100 PFTeDA 13.05 482741.06 4.83e5 % 0 0 13.00 14.00 15.00

# Name (alich teleparation)	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod Date	Mod.Time
1 IS-PFOA-13C2	10.04	971151.56		1.000	40.471996	101.2	bb			
2 IS-PFOS-13C4	10.74	322750.16		1.000	121.780881	101.5	bd			
3 IS-NMeFOSAA-d3	11.59	349277.69		1.000	161.266012	100.8	dd			
4 SS-PFHxA-13C2	7.97	648338.50	1	1.000	40,140183	100.4	bd			
5 SS-PFDA-13C2	11.34	732246.31	1	1.000	39.642779	99.1	bb			
6 SS-NEtFOSAA-d5	11.84	322138.75	3	1.000	162.364351	101.5	dd			
7 SS-HFPO-DA-13C3	8.38	28677.46	1	1.000	40.192392	100.5	bd			
8 PFB\$	6.69	210159.97	2	1.000	49.860970	99.7	bb			
9 PFHxA	7.97	795697.13	1	1.000	49.626649	99.3	bb			
10 HFPO-DA/GenX	8.38	36084.38	1	1.000	49.415338	98.8	bb			
11 PFHpA	9.18	987195.38	1	1.000	50.191332	100.4	bb			
12 PFHxS	9.28	167307.05	2	1.000	49.793608	99.6	MM	SP-CM	11-Dec-19	17:08:26
13 ADONA	9.32	1334263.25	1	1.000	50.198360	100.4	bb			
14 PFOA	10.04	1244274.63	1	1.000	49.794635	99.6	bb			
15 PFOS	10.75	134426.03	2	1.000	48.740672	97.5	MM	SP-CM	11-Dec-19	17:18:17
16 PFNA	10.73	1225864.00	1	1.000	50.463544	100.9	bb			
17 9CI-PF3ONS/F-53B major	11.07	1017436.31	2	1.000	49.880433	99.8	bb			
18 PFDA	11.34	962884.50	1	1.000	48.990934	98.0	bb			
19 NMeFOSAA	11.60	101627.41	3	1.000	48.930967	97.9	MM	SP-CM	11-Dec-19	17:25:03
20 PFUnA	11.86	844533.69	1	1.000	49.770889	99.5	bb			
21 NEtFOSAA	11.85	89570.60	3	1,000	50.410830	100.8	MM	SP-CM	11-Dec-19	17:29:29
22 11CI-PF3OUdS/F-53B minor	12.07	699151.13	2	1.000	49.463852	98.9	bb			
23 PFDoA	12.31	733213.19	1	1.000	49.862442	99.7	bb			
24 PFTrDA	12.71	547571.13	1	1.000	50.080169	100.2	bb			
25 PFTeDA	13.05	482741.06	1	1.000	49.795287	99.6	bb			

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Last Altered: Printed:

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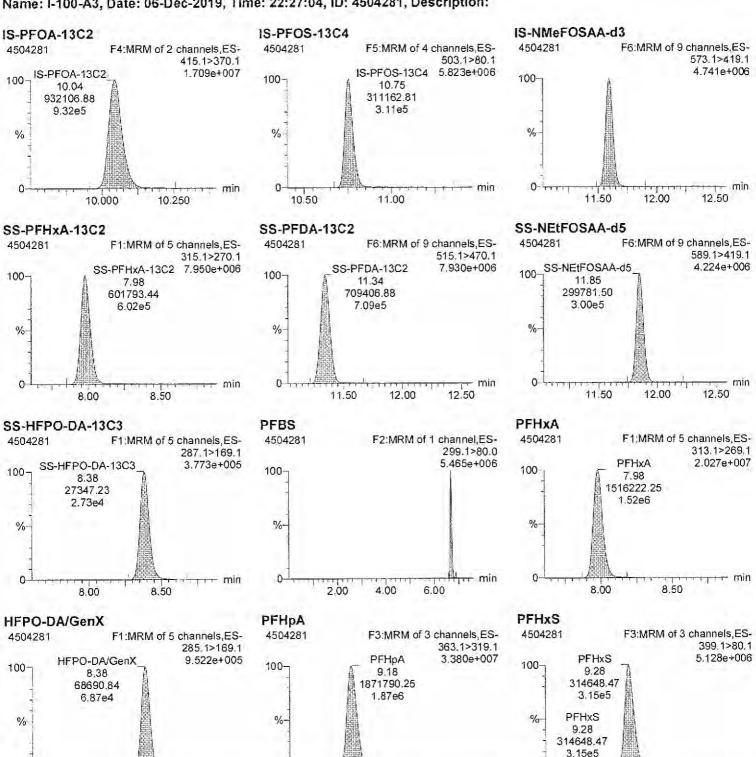
Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

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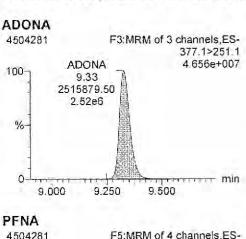


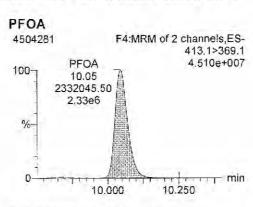
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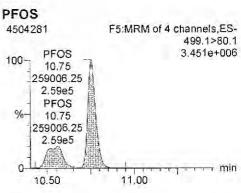
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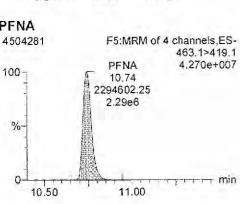
Last Altered: Printed: Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

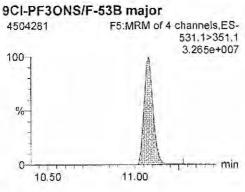
Name: I-100-A3, Date: 06-Dec-2019, Time: 22:27:04, ID: 4504281, Description:

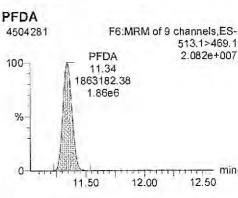


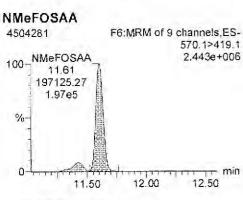


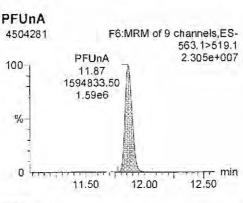


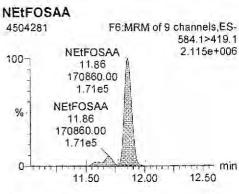


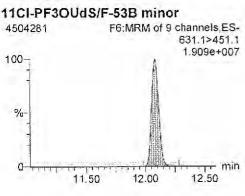


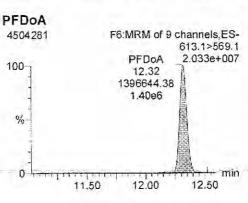


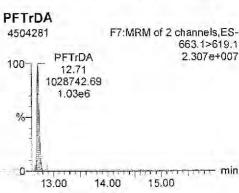








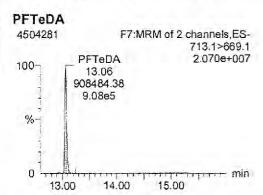




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Last Altered: Printed: Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

Name: I-100-A3, Date: 06-Dec-2019, Time: 22:27:04, ID: 4504281, Description:

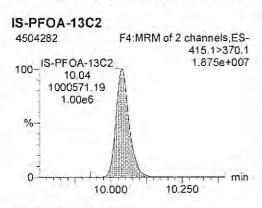


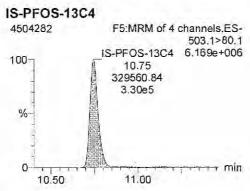
# Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod Commer	nt Mod Date	Mod Time
1 IS-PFOA-13C2	10.04	932106.88	0420100	1.000	38.844839	97.1	bd	e memora de publica en esta a constitue menor mente de servicio.	and the second s	
2 IS-PFOS-13C4	10.75	311162.81		1.000	117.408717	97.8	bb			
3 IS-NMeFOSAA-d3	11.60	338154.69		1.000	156.130380	97.6	dd			
4 SS-PFHxA-13C2	7.98	601793.44	1	1.000	38.819173	97.0	bb			
5 SS-PFDA-13C2	11.34	709406.88	1	1.000	40.015071	100.0	dd			
6 SS-NEtFOSAA-d5	11.85	299781.50	3	1.000	156.065882	97.5	db			
7 SS-HFPO-DA-13C3	8.38	27347.23	1	1.000	39.933542	99.8	bd			
8 PFBS	6.69	395942.69	2	1.000	97.436533	97.4	bb			
9 PFHxA	7.98	1516222.25	1	1.000	98.526108	98.5	bb			
10 HFPO-DA/GenX	8.38	68690.84	1	1.000	98.008240	98.0	bb			
11 PFHpA	9.18	1871790.25	1	1,000	99.152596	99.2	bb			
12 PFHxS	9.28	314648.47	2	1.000	97.132318	97.1	MM	SP-CM	11-Dec-19	17:08:36
13 ADONA	9.33	2515879.50	1	1.000	98.618670	98.6	bb			
14 PFOA	10.05	2332045.50	1	1.000	97.235450	97.2	bb			
15 PFOS	10.75	259006.25	2	1.000	97.408566	97.4	MM	SP-CM	11-Dec-19	17:18:23
16 PFNA	10.74	2294602.25	1	1.000	98.415653	98.4	dd			
17 9CI-PF3ONS/F-53B major	11.08	1928256.38	2	1.000	98.054274	98.1	bb			
18 PFDA	11.34	1863182.38	1	1.000	98.768440	98.8	bb			
19 NMeFOSAA	11.61	197125.27	3	1.000	98,032628	98.0	MM	SP-CM	11-Dec-19	17:25:08
20 PFUnA	11.87	1594833.50	1	1.000	97,925337	97.9	bb			
21 NEtFOSAA	11.86	170860.00	3	1.000	99.323997	99.3	MM	SP-CM	11-Dec-19	17:29:34
22 11Cl-PF3OUdS/F-53B minor	12.08	1311925.50	2	1.000	96.273069	96.3	bb			
23 PFDoA	12.32	1396644.38	1	1.000	98.957886	99.0	db			
24 PFTrDA	12.71	1028742.69	1	1.000	98.028715	98.0	bb			
25 PFTeDA	13.06	908484.38	1	1.000	97.636627	97.6	bd			

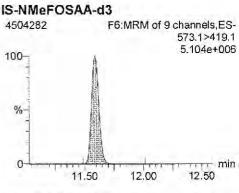
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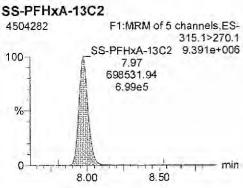
Last Altered: Printed: Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

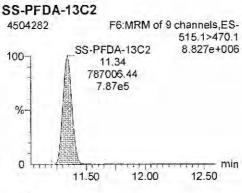
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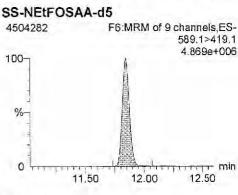


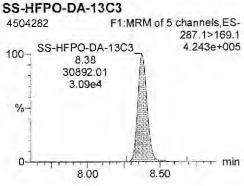


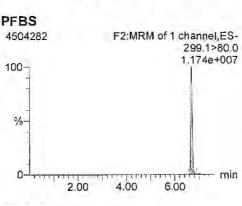


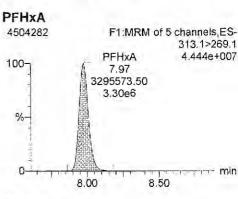


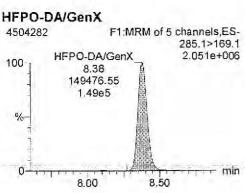


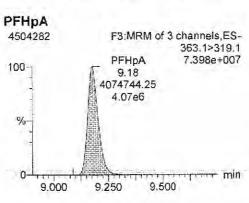


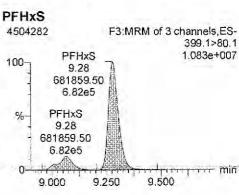












min

Dataset:

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Last Altered: Printed:

Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

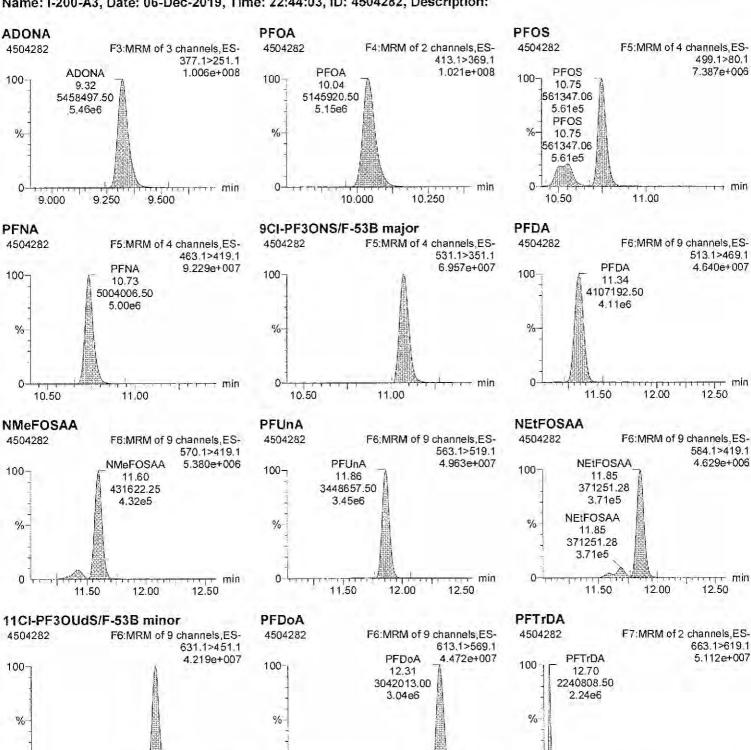
### Name: I-200-A3, Date: 06-Dec-2019, Time: 22:44:03, ID: 4504282, Description:

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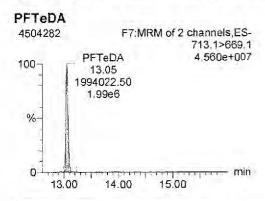
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Last Altered: Printed: Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

Name: I-200-A3, Date: 06-Dec-2019, Time: 22:44:03, ID: 4504282, Description:



# Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod,Comment	Mod Date	Mod.Time
1 IS-PFOA-13C2	10.04	1000571.19		1.000	41.698037	104.2	bb			
2 IS-PFOS-13C4	10.75	329560.84		1.000	124.350707	103.6	bd			
3 IS-NMeFOSAA-d3	11.59	362561.78		1.000	167.399449	104.6	db			
4 SS-PFHxA-13C2	7.97	698531.94	1	1.000	41.976171	104.9	bb			
5 SS-PFDA-13C2	11.34	787006.44	1	1.000	41.354636	103.4	bd			
6 SS-NEtFOSAA-d5	11.84	341481.13	3	1.000	165.807144	103.6	dd			
7 SS-HFPO-DA-13C3	8.38	30892.01	1	1.000	42.023133	105.1	bb			
8 PFBS	6.69	857983.50	2	1.000	199.351962	99.7	bb			
9 PFHxA	7.97	3295573.50	1	1.000	199,497374	99.7	bb			
10 HFPO-DA/GenX	8.38	149476.55	1	1.000	198.680188	99.3	bb			
11 PFHpA	9.18	4074744.25	1	1.000	201.078197	100.5	bb			
12 PFHxS	9.28	681859.50	2	1.000	198.739919	99.4	MM	SP-CM	11-Dec-19	17:08:42
13 ADONA	9.32	5458497.50	1	1.000	199.324251	99.7	bb			
14 PFOA	10.04	5145920.50	1	1.000	199.879566	99.9	bb			
15 PFOS	10.75	561347.06	2	1.000	199.328980	99.7	MM	SP-CM	11-Dec-19	17:18:29
16 PFNA	10.73	5004006.50	1	1.000	199.936620	100.0	bb			
17 9CI-PF3ONS/F-53B major	11.07	4155907.75	2	1.000	199.535297	99.8	bb			
18 PFDA	11.34	4107192.50	1	1.000	202.826923	101.4	bb			
19 NMeFOSAA	11.60	431622.25	3	1.000	200.200690	100.1	MM	SP-CM	11-Dec-19	17:25:12
20 PFUnA	11.86	3448657.50	1	1.000	197.263851	98.6	bb			
21 NEIFOSAA	11.85	371251.28	3	1.000	201.286727	100.6	MM	SP-CM	11-Dec-19	17:29:39
22 11Cl-PF3OUdS/F-53B minor	12.07	2892010.25	2	1.000	200.376854	100.2	bb			
23 PFDoA	12.31	3042013.00	1	1.000	200.790591	100.4	bb			
24 PFTrDA	12.70	2240808.50	1	1.000	198.915675	99.5	bb			
25 PFTeDA	13.05	1994022,50	1	1.000	199,637938	99.8	bb			

min

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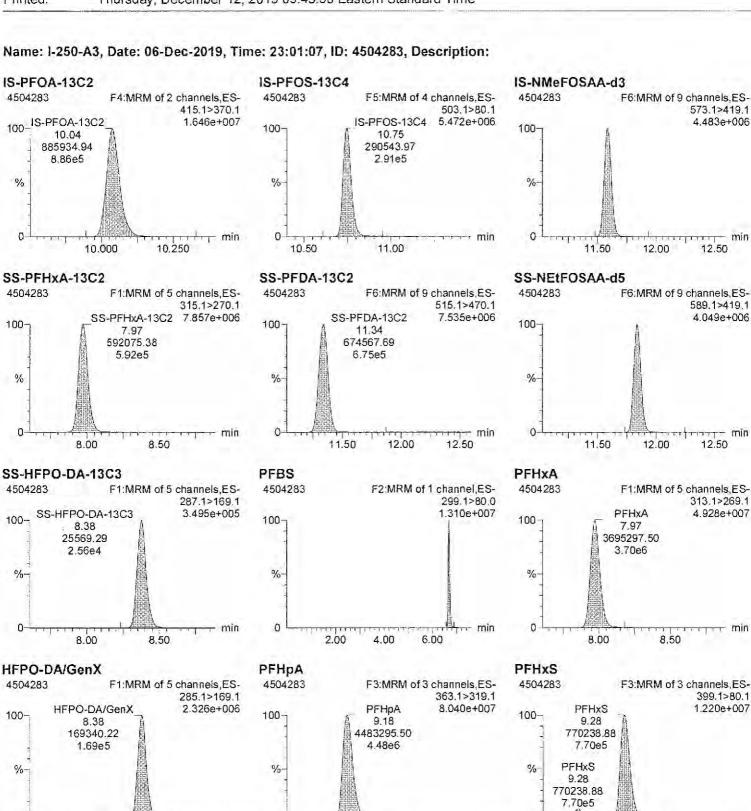
Last Altered: Thursday, December 12, 2019 09:37:11 Eastern Standard Time Printed: Thursday, December 12, 2019 09:43:58 Eastern Standard Time

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Last Altered: Printed:

Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

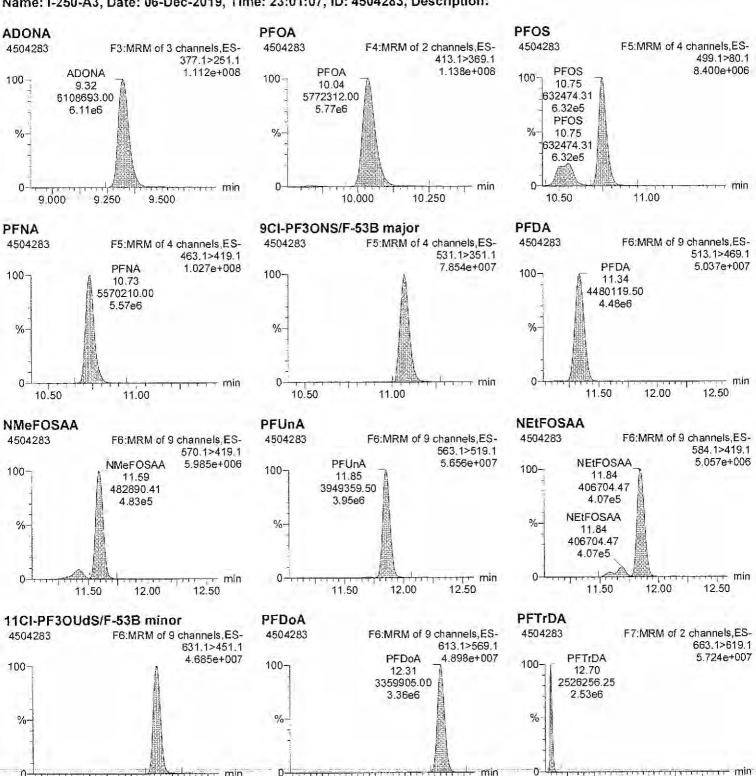
Name: I-250-A3, Date: 06-Dec-2019, Time: 23:01:07, ID: 4504283, Description:

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Thursday, December 12, 2019 09:37:11 Eastern Standard Time

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Thursday, December 12, 2019 09:43:58 Eastern Standard Time

Name: I-250-A3, Date: 06-Dec-2019, Time: 23:01:07, ID: 4504283, Description:

TT min

#### **PFTeDA** 4504283 F7:MRM of 2 channels, ES-713.1>669.1 5.156e+007 **PFTeDA** 100-13.05 2238792.50 2.24e6 %-

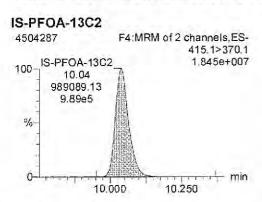
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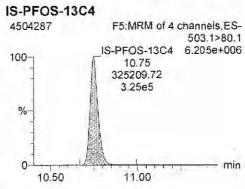
# Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod Date	Mod.Time
1 IS-PFOA-13C2	10.04	885934.94	200,000	1.000	36.920659	92.3	bb	and the second s	The second of th	COM A. ASSA WASHING
2 IS-PFOS-13C4	10.75	290543.97		1.000	109.628764	91.4	bd			
3 IS-NMeFOSAA-d3	11.59	320457.72		1.000	147.959461	92.5	dd			
4 SS-PFHxA-13C2	7.97	592075.38	1	1.000	40.182755	100.5	bd			
5 SS-PFDA-13C2	11.34	674567.69	1	1.000	40.032952	100.1	db			
6 SS-NEtFOSAA-d5	11.84	285584.50	3	1.000	156.885372	98.1	dd			
7 SS-HFPO-DA-13C3	8.38	25569.29	1	1.000	39.283221	98.2	bd			
8 PFBS	6.68	962918.38	2	1.000	253.778481	101.5	bb			
9 PFHxA	7.97	3695297.50	1	1.000	252.639791	101.1	bb			
10 HFPO-DA/GenX	8.38	169340.22	1	1.000	254.207164	101.7	bb			
11 PFHpA	9.18	4483295.50	1	1.000	249.866570	99.9	bb			
12 PFHxS	9.28	770238.88	2	1.000	254.647484	101.9	MM	SP-CM	11-Dec-19	17:08:50
13 ADONA	9.32	6108693.00	1	1.000	251.930929	100.8	bb			
14 PFOA	10.04	5772312.00	1	1.000	253.221914	101.3	bb			
15 PFOS	10.75	632474.31	2	1.000	254.744974	101.9	MM	SP-CM	11-Dec-19	17:18:35
16 PFNA	10.73	5570210.00	1	1.000	251,357711	100.5	bb			
17 9CI-PF3ONS/F-53B major	11.07	4644088.50	2	1.000	252.917024	101.2	bb			
18 PFDA	11.34	4480119.50	1	1.000	249.871259	99.9	bb			
19 NMeFOSAA	11.59	482890.41	3	1.000	253.408750	101.4	MM	SP-CM	11-Dec-19	17:25:17
20 PFUnA	11.85	3949359.50	1	1.000	255.135137	102.1	bb			
21 NEIFOSAA	11.84	406704.47	3	1.000	249.480960	99.8	MM	SP-CM	11-Dec-19	17:29:46
22 11 CI-PF3 OUdS/F-53B minor	12.07	3233621.25	2	1,000	254.132740	101.7	bb			
23 PFDoA	12.31	3359905.00	1	1.000	250.469850	100.2	bb			
24 PFTrDA	12.70	2526256.25	1	1.000	253.272379	101.3	bb			
25 PFTeDA	13.05	2238792.50	1	1.000	253.147142	101.3	bb			

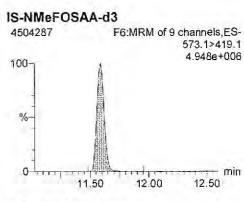
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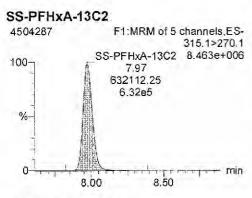
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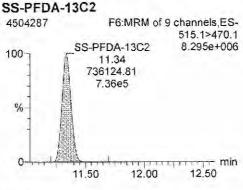
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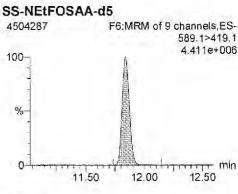


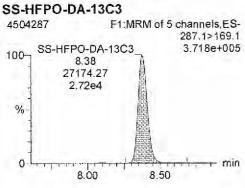


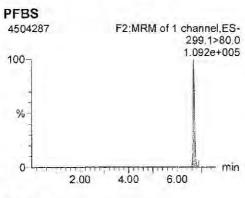


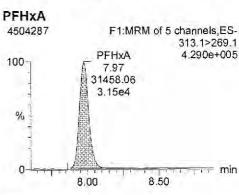


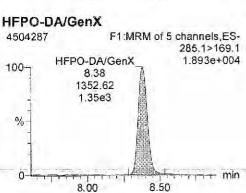


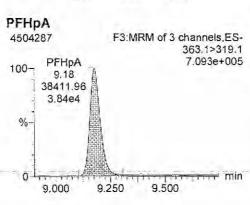


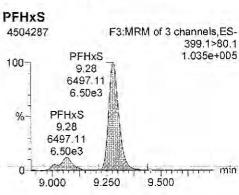








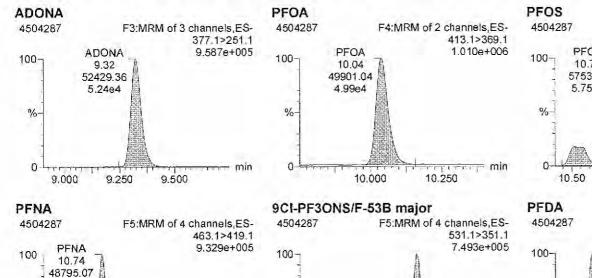


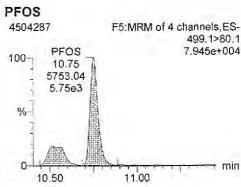


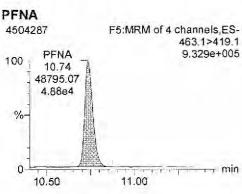
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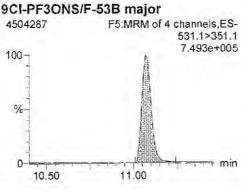
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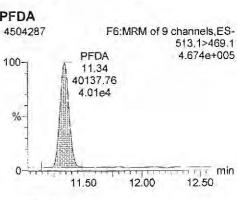
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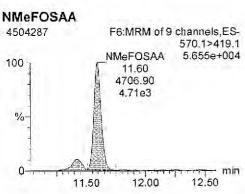


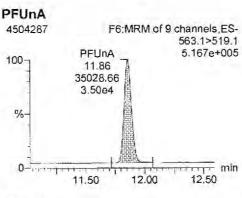


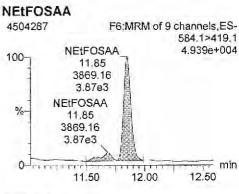


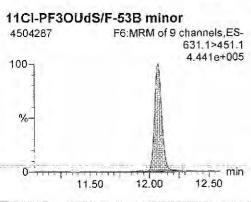


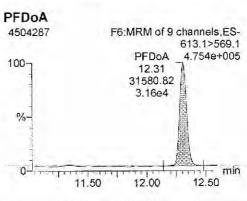


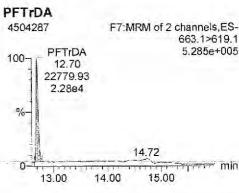










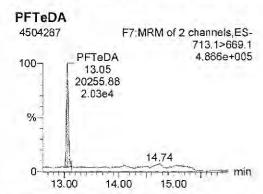


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Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

Name: CCL-2-A3, Date: 06-Dec-2019, Time: 23:18:10, ID: 4504287, Description:



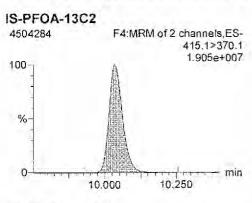
# Name	THE RTH	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod Date	Mod.Time
1 IS-PFOA-13C2	10.04	989089,13	". Ilia a Mila	1.000	41.219530	103.0	bb		,	
2 IS-PFOS-13C4	10.75	325209.72		1.000	122.708930	102.3	bd			
3 IS-NMeFOSAA-d3	11.59	351806.94		1.000	162.433799	101.5	bb			
4 SS-PFHxA-13C2	7.97	632112.25	1	1.000	38.425836	96.1	bb			
5 SS-PFDA-13C2	11.34	736124.81	1	1.000	39.130008	97.8	bd			
6 SS-NEtFOSAA-d5	11.84	312201.75	3	1.000	156.224624	97.6	dd			
7 SS-HFPO-DA-13C3	8.38	27174.27	1	1.000	37,394921	93.5	bd			
8 PFBS	6.69	7923.57	2	1.000	1.865668	93.3	bb			
9 PFHxA	7.97	31458.06	1	1.000	1.926419	96.3	bb			
10 HFPO-DA/GenX	8.38	1352.62	1	1.000	1.818737	90.9	bd			
11 PFHpA	9,18	38411.96	1	1.000	1.917537	95.9	bb			
12 PFHxS	9.28	6497.11	2	1.000	1.919035	96.0	MM	SP-CM	11-Dec-19	17:09:13
13 ADONA	9.32	52429.36	1	1.000	1.936752	96.8	bb			
14 PFOA	10.04	49901.04	1	1.000	1.960774	98.0	bb			
15 PFOS	10.75	5753.04	2	1.000	2.070182	103.5	MM	SP-CM	11-Dec-19	17:18:44
16 PFNA	10.74	48795.07	1	1.000	1.972255	98.6	bb			
17 9CI-PF3ONS/F-53B major	11.07	45195.57	2	1.000	2.198983	109.9	db			
18 PFDA	11.34	40137.76	1	1.000	2.005147	100.3	bd			
19 NMeFOSAA	11.60	4706.90	3	1.000	2.249956	112.5	MM	SP-CM	11-Dec-19	17:25:24
20 PFUnA	11.86	35028.66	1	1.000	2.026906	101.3	bb			
21 NEtFOSAA	11.85	3869.16	3	1.000	2.161929	108.1	MM	SP-CM	11-Dec-19	17:29:51
22 11CI-PF3OUdS/F-53B minor	12.07	31082.58	2	1.000	2.182413	109.1	bb			
23 PFDoA	12.31	31580.82	1	1.000	2.108717	105.4	bb			
24 PFTrDA	12.70	22779.93	1	1.000	2.045640	102.3	bb			
25 PFTeDA	13.05	20255.88	1	1.000	2.051525	102.6	bb			

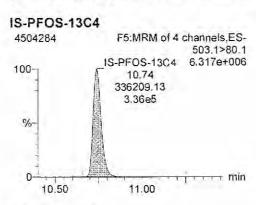
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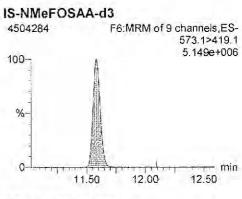
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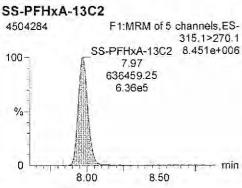
Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

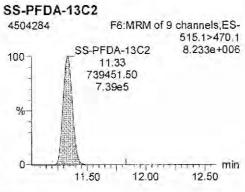
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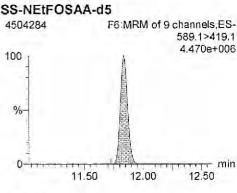


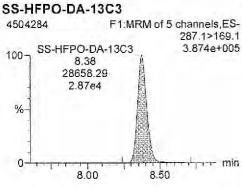


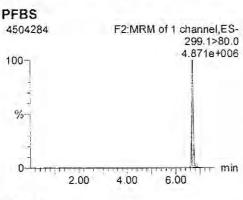


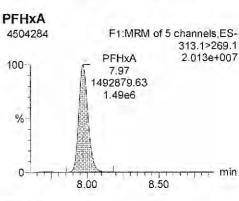


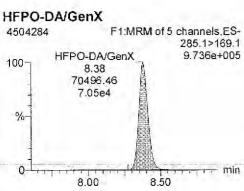


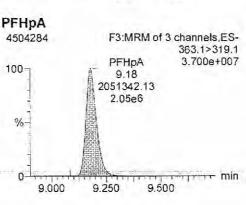


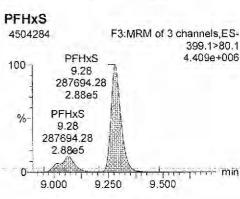








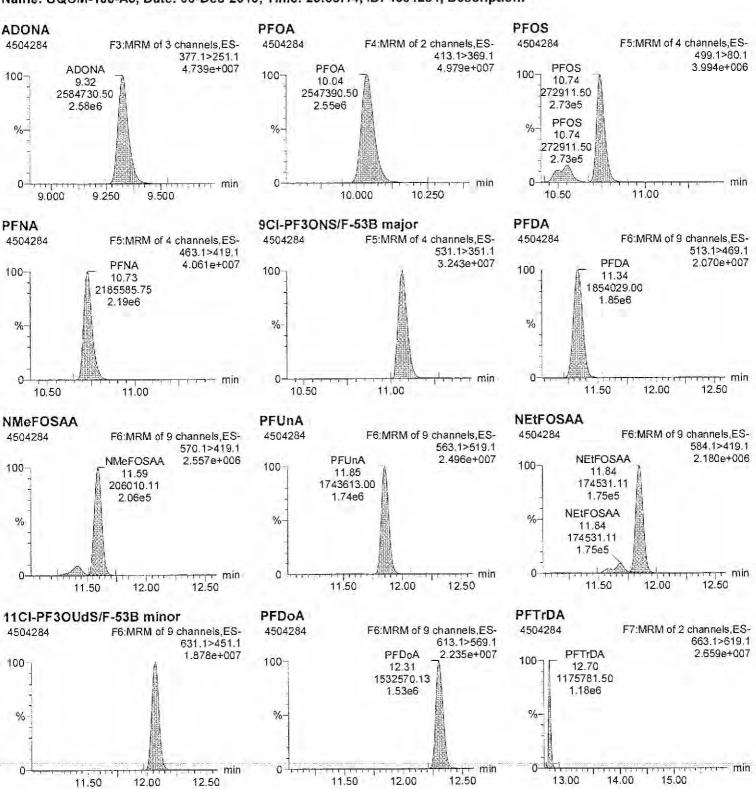




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Last Altered: Printed: Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

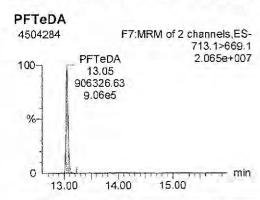
Name: UQCM-100-A3, Date: 06-Dec-2019, Time: 23:35:14, ID: 4504284, Description:



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Last Altered: Printed: Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

Name: UQCM-100-A3, Date: 06-Dec-2019, Time: 23:35:14, ID: 4504284, Description:

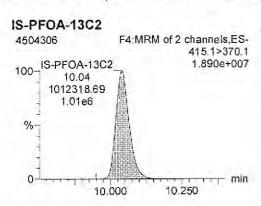


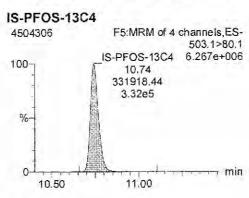
# Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod Comment	Mod Date	Mod.Tim
1 IS-PFOA-13C2	10.03	1022798.75	terater tervela	1.000	42.624353	106.6	bd	1914/1911/4/19 1 (1914/6)		At a constitute a market trade
2 IS-PFOS-13C4	10.74	336209.13		1.000	126.859252	105.7	bb			
3 IS-NMeFOSAA-d3	11.58	366265.16		1,000	169.109345	105.7	dd			
4 SS-PFHxA-13C2	7.97	636459.25	1	1.000	37.414932	93.5	bd			
5 SS-PFDA-13C2	11.33	739451.50	1	1.000	38.011360	95.0	bb			
6 SS-NEtFOSAA-d5	11.84	314359.22	3	1.000	151.094673	94.4	dd			
7 SS-HFPO-DA-13C3	8.38	28658.29	1	1.000	38.137334	95.3	bb			
8 PFBS	6.68	354307.50	2	1.000	80.695262	91.2	bb			
9 PFHxA	7.97	1492879.63	1	1.000	88.407432	88.4	bb			
10 HFPO-DA/GenX	8.38	70496.46	1	1.000	91.665650	91.7	bb			
11 PFHpA	9.18	2051342.13	1	1.000	99.028575	99.0	bb			
12 PFHxS	9.28	287694.28	2	1.000	82.195407	90.1	MM	SP-CM	11-Dec-19	17:09:20
13 ADONA	9.32	2584730.50	1	1.000	92.333670	97.7	bb			
14 PFOA	10.04	2547390.50	1	1.000	96.796277	96.8	bb			
15 PFOS	10.74	272911.50	2	1.000	94.991979	102.7	MM	SP-CM	11-Dec-19	17:18:51
16 PFNA	10.73	2185585.75	1	1.000	85.427980	85.4	bb			
17 9CI-PF3ONS/F-53B major	11.07	1908627.63	2	1.000	89.825812	96.6	bb			
18 PFDA	11.34	1854029.00	1	1.000	89.568411	89,6	bb			
19 NMeFOSAA	11.59	206010.11	3	1,000	94.588142	94.6	MM	SP-CM	11-Dec-19	17:25:29
20 PFUnA	11.85	1743613.00	1	1.000	97.567538	97.6	bb			
21 NEIFOSAA	11.84	174531.11	3	1.000	93.671277	93.7	MM	SP-CM	11-Dec-19	17:29:56
22 11CI-PF3OUdS/F-53B minor	12.07	1295181,13	2	1.000	87.963873	93.6	bb			
23 PFDoA	12.31	1532570.13	1	1.000	98.960175	99.0	bb			
24 PFTrDA	12.70	1175781.50	1	1.000	102.105395	102.1	bb			
25 PFTeDA	13.05	906326.63	1	1.000	88.767822	88.8	bb			

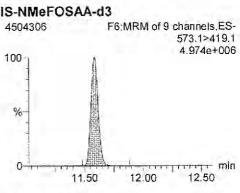
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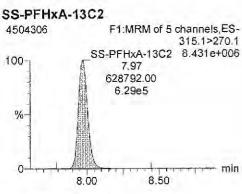
Last Altered: Printed: Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

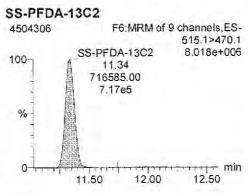
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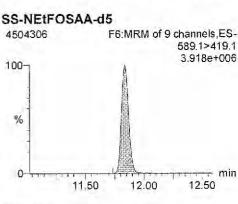


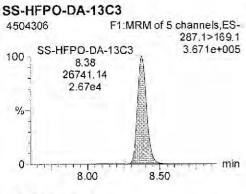


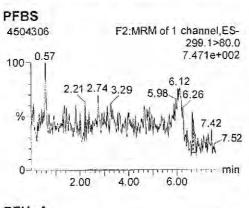


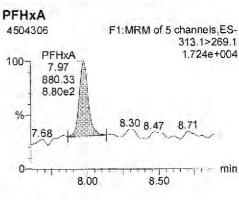


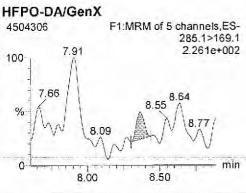


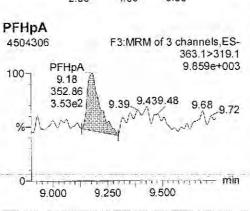


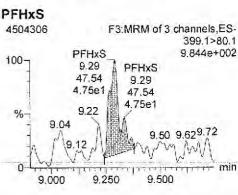












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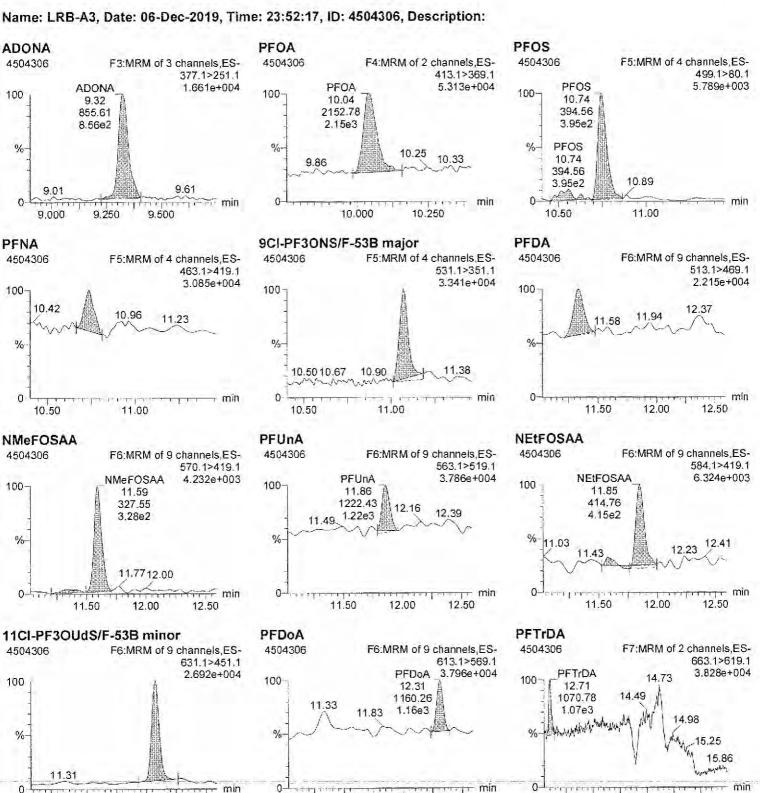
Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

min

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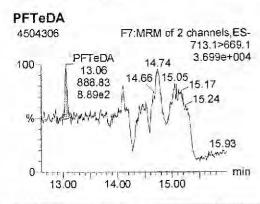
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Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

Name: LRB-A3, Date: 06-Dec-2019, Time: 23:52:17, ID: 4504306, Description:



# Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod Comm	nent Mod Date	Mod Time
1 IS-PFOA-13C2	10.04	1012318.69	.,	0.910	38.390720	105.5	bb			
2 IS-PFOS-13C4	10.74	331918.44		0.910	113.968655	104.4	bb			
3 IS-NMeFOSAA-d3	11.58	355484.63		0.910	149.359970	102.6	bd			
4 SS-PFHxA-13C2	7.97	628792.00	1	0.910	33.985659	93.4	bb			
5 SS-PFDA-13C2	11.34	716585.00	1	0.910	33.867704	93.0	dd			
6 SS-NEtFOSAA-d5	11.84	276744.38	3	0.910	124.714781	85.7	dd			
7 SS-HFPO-DA-13C3	8.38	26741.14	1	0.910	32.718567	89.9	bd			
8 PFBS	6.65	27.92	2	0.910	0.005861		MM	SP-CM	11-Dec-19	16:59:39
9 PFHxA	7.97	880.33	1	0.910	0.047932		MM	BI-CM	11-Dec-19	17:05:20
10 HFPO-DA/GenX	8.36	3.52	1	0.910	0.004209		bb			
11 PFHpA	9.18	352.86	1	0.910	0.015662		MM	AP-CM	11-Dec-19	17:06:31
12 PFHxS	9.29	47.54	2	0.910	0.012521		MM	SP-CM	11-Dec-19	17:09:30
13 ADONA	9.32	855.61	1	0.910	0.028102		bb			
14 PFOA	10.04	2152.78	1	0.910	0.075210		bb			
15 PFOS	10.74	394.56	2	0.910	0.126589		MM	SP-CM	11-Dec-19	17:18:57
16 PFNA	10.74	745.75	1	0.910	0.026800		bb			
17 9CI-PF3ONS/F-53B major	11.07	1611.72	2	0.910	0.069918		MM	BI-CM	11-Dec-19	17:23:19
18 PFDA	11.34	967.67	1	0.910	0.042981		MM	BI-CM	11-Dec-19	17:24:21
19 NMeFOSAA	11.59	327.55	3	0.910	0.141006		MM	SP-CM	11-Dec-19	17:25:35
20 PFUnA	11.86	1222.43	1	0.910	0.062892		MM	BI-CM	11-Dec-19	17:28:43
21 NEtFOSAA	11.85	414.76	3	0.910	0.208710		MM	SP-CM	11-Dec-19	17:30:03
22 11Cl-PF3OUdS/F-53B minor	12.07	1832.00	2	0.910	0.114688		bb			
23 PFDoA	12.31	1160.26	1	0.910	0.068883		MM	BI-CM	11-Dec-19	17:37:38
24 PFTrDA	12.71	1070.78	1	0.910	0.085494		MM	AP-CM	12-Dec-19	09:32:39
25 PFTeDA	13.06	888.83	1	0.910	0.080040		MM	BI-CM	12-Dec-19	09:36:16

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8.50

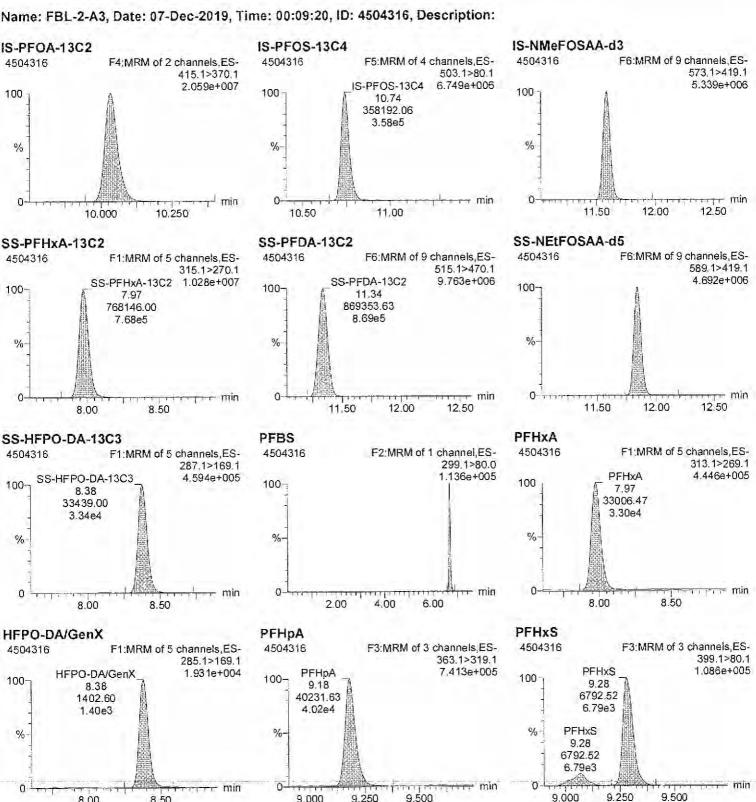
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Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

# Name: FBL-2-A3, Date: 07-Dec-2019, Time: 00:09:20, ID: 4504316, Description:



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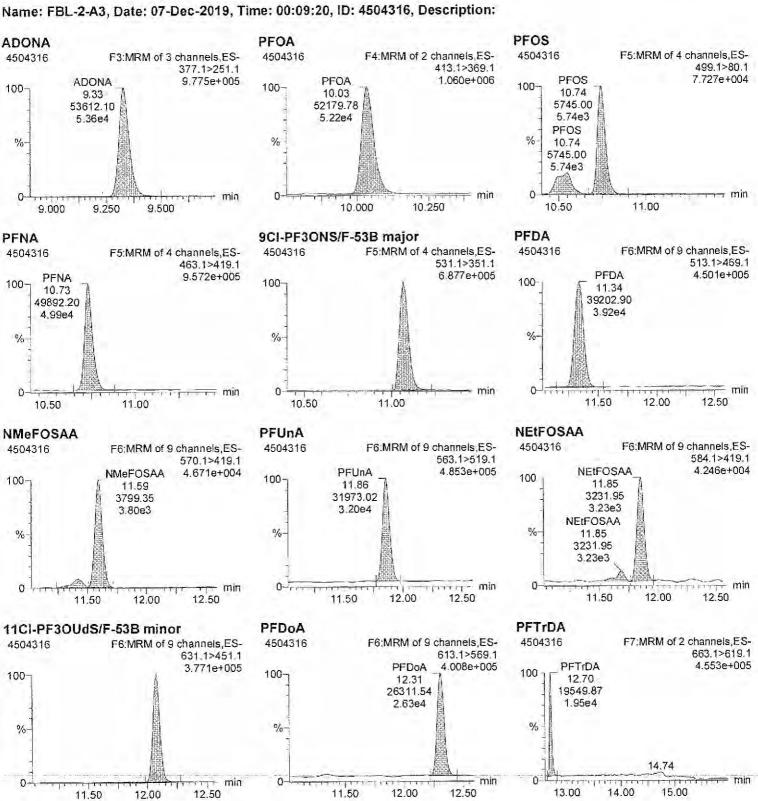
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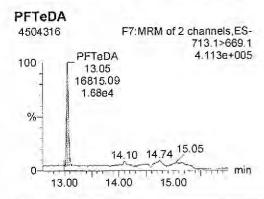
Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time



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Name: FBL-2-A3, Date: 07-Dec-2019, Time: 00:09:20, ID: 4504316, Description:



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1 IS-PFOA-13C2	10.03	1098693.75		1.000	45.787219	114.5	bb			
2 IS-PFOS-13C4	10.74	358192.06		1.000	135.153909	112.6	bb			
3 IS-NMeFOSAA-d3	11.59	381671.06		1.000	176.222451	110.1	bb			
4 \$S-PFHxA-13C2	7.97	768146.00	1	1.000	42.036995	105.1	bb			
5 SS-PFDA-13C2	11.34	869353.63	1	1.000	41.601953	104.0	dd			
6 SS-NEtFOSAA-d5	11.84	331750.78	3	1.000	153.017561	95.6	dd			
7 SS-HFPO-DA-13C3	8.38	33439.00	1	1.000	41.425406	103.6	bb			
8 PFBS	6.69	8243.73	2	1.000	1.762321	88.1	bb			
9 PFHxA	7.97	33006.47	1	1.000	1.819603	91.0	bb			
10 HFPO-DA/GenX	8.38	1402.60	1	1.000	1.697801	84.9	bb			
11 PFHpA	9.18	40231.63	1	1.000	1.808021	90.4	bb			
12 PFHxS	9.28	6792.52	2	1.000	1.821549	91.1	MM	SP-CM	11-Dec-19	17:09:37
13 ADONA	9.33	53612.10	1	1.000	1.782876	89.1	bb			
14 PFOA	10.03	52179.78	1	1.000	1.845776	92.3	bb			
15 PFOS	10.74	5745.00	2	1.000	1.876932	93.8	MM	SP-CM	11-Dec-19	17:19:05
16 PFNA	10.73	49892.20	1	1.000	1.815426	90.8	bb			
17 9CI-PF3ONS/F-53B major	11.07	40237.61	2	1.000	1.777484	88.9	bb			
18 PFDA	11.34	39202.90	1	1.000	1.763072	88.2	bb			
19 NMeFOSAA	11.59	3799.35	3	1.000	1.674031	83.7	MM	SP-CM	11-Dec-19	17:25:41
20 PFUnA	11.86	31973.02	1	1.000	1.665530	83.3	bb			
21 NEtFOSAA	11.85	3231.95	3	1.000	1.664582	83.2	MM	SP-CM	11-Dec-19	17:30:08
22 11CI-PF3OUdS/F-53B minor	12.07	25761.92	2	1.000	1.642274	82.1	bb			
23 PFDoA	12.31	26311.54	1	1.000	1.581612	79.1	db			
24 PFTrDA	12.70	19549.87	1	1.000	1.580446	79.0	bb			
25 PFTeDA	13.05	16815.09	1	1.000	1.533146	76.7	bb			

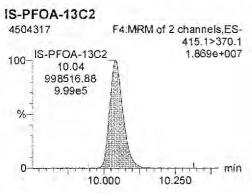
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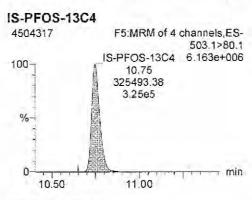
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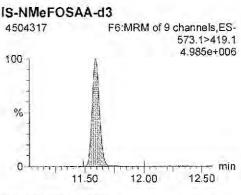
Thursday, December 12, 2019 09:37:11 Eastern Standard Time

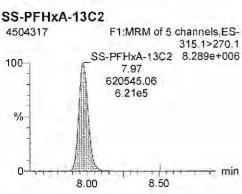
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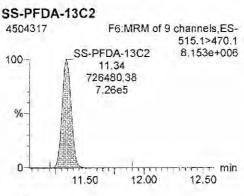
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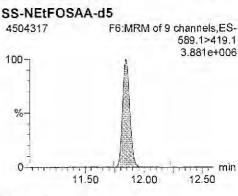


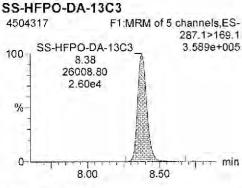


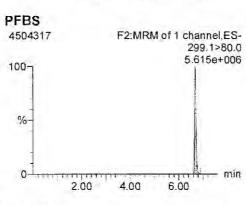


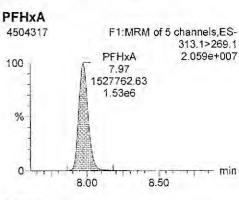


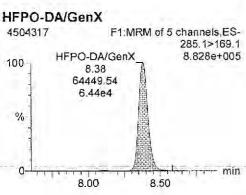


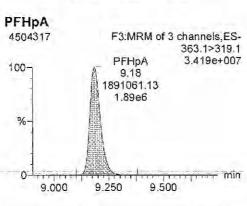


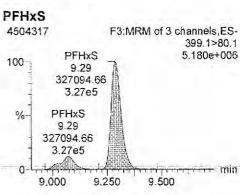








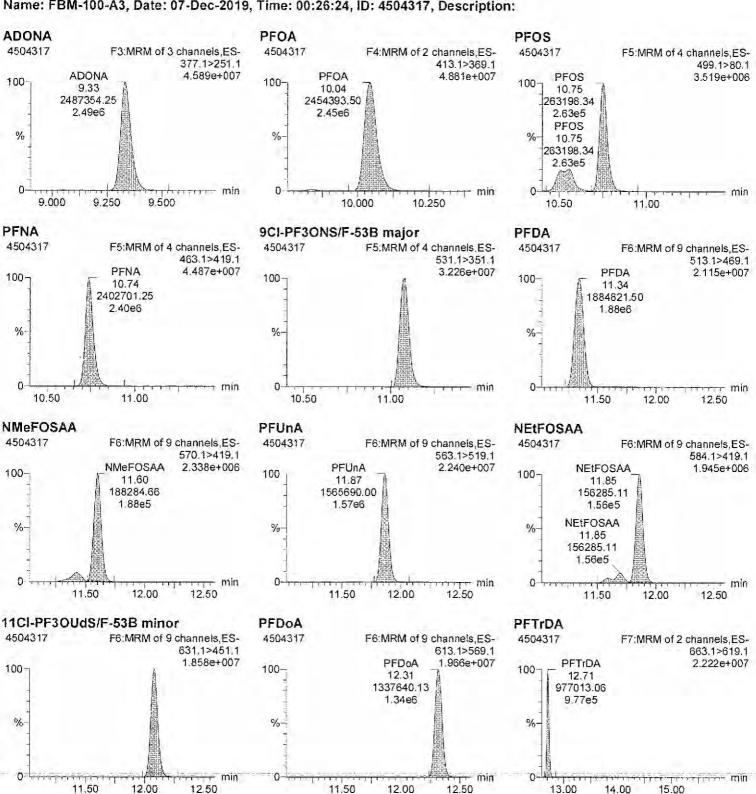




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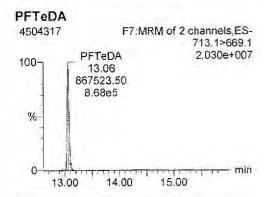
Last Altered: Printed:

Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time



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Last Altered: Printed: Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time



# Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod Date	Mod Time
1 IS-PFOA-13C2	10.04	998516,88	,, , <sub>2</sub> , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1.000	41.612425	104.0	bd			
2 IS-PFOS-13C4	10.75	325493.38		1.000	122.815959	102.3	bb			
3 IS-NMeFOSAA-d3	11.59	356471.78		1.000	164.587618	102.9	dd			
4 SS-PFHxA-13C2	7.97	620545.06	1	1.000	37.366503	93.4	bd			
5 SS-PFDA-13C2	11.34	726480.38	1	1.000	38.252726	95.6	bd			
6 SS-NEtFOSAA-d5	11.84	274741.22	3	1.000	135.680433	84.8	dd			
7 SS-HFPO-DA-13C3	8.38	26008.80	1	1.000	35.453176	88.6	bb			
8 PFBS	6.68	405407.00	2	1.000	95.373182	95.4	bb			
9 PFHxA	7.97	1527762.63	1	1.000	92.673304	92.7	bb			
10 HFPO-DA/GenX	8.38	64449.54	1	1.000	85.840834	85.8	bb			
11 PFHpA	9.18	1891061.13	1	1.000	93.511016	93.5	bb			
12 PFHxS	9.29	327094.66	2	1.000	96.528846	96.5	MM	SP-CM	11-Dec-19	17:09:43
13 ADONA	9.33	2487354.25	1	1.000	91.015896	91.0	bb			
14 PFOA	10.04	2454393.50	1	1.000	95.530511	95.5	bb			
15 PFOS	10.75	263198.34	2	1.000	94.627114	94.6	MM	SP-CM	11-Dec-19	17:19:11
16 PFNA	10.74	2402701.25	1	1.000	96.198176	96.2	bb			
17 9CI-PF3ONS/F-53B major	11.08	1931919.50	2	1.000	93.915292	93.9	bb			
18 PFDA	11.34	1884821.50	1	1,000	93.270296	93.3	bb			
19 NMeFOSAA	11.60	188284.66	3	1.000	88.824657	88.8	MM	SP-CM	11-Dec-19	17:25:48
20 PFUnA	11.87	1565690.00	1	1,000	89.742012	89.7	bb			
21 NEtFOSAA	11.85	156285.11	3	1.000	86.183007	86.2	MM	SP-CM	11-Dec-19	17:30:13
22 11CI-PF3OUdS/F-53B minor	12.08	1274260.88	2	1.000	89.392180	89.4	bb			
23 PFDoA	12.31	1337640.13	1	1.000	88.473695	88.5	bb			
24 PFTrDA	12.71	977013.06	1	1.000	86.907492	86.9	bb			
25 PFTeDA	13.06	867523.50	-1	1.000	87.033581	87.0	bb			

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Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

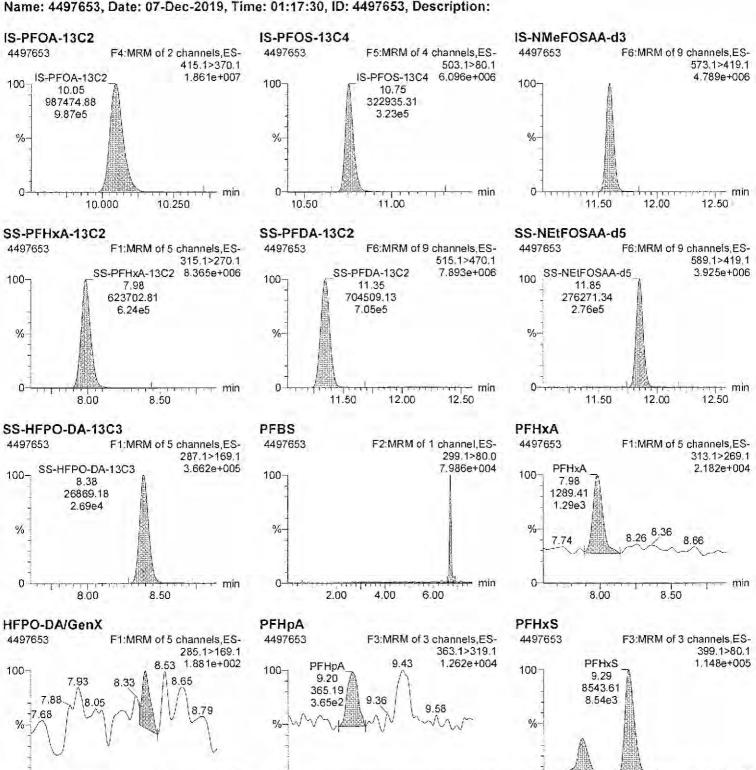
Name: 4497653, Date: 07-Dec-2019, Time: 01:17:30, ID: 4497653, Description:

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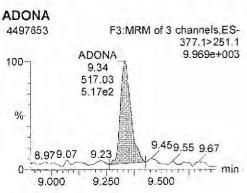
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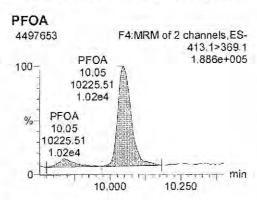
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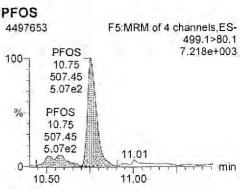
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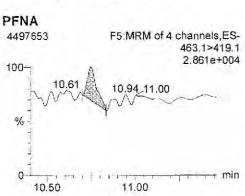
Last Altered: Printed: Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

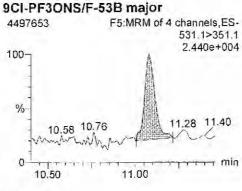
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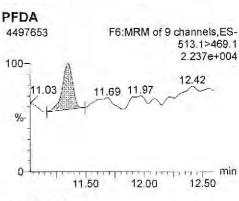


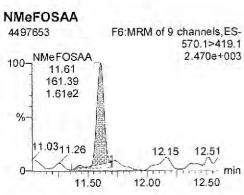


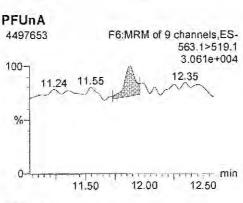


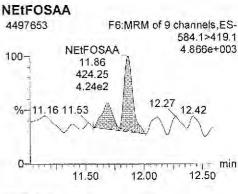


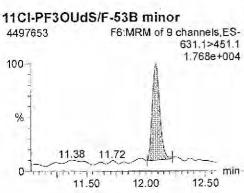


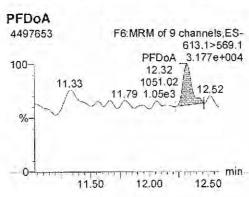


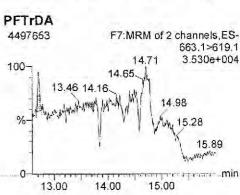










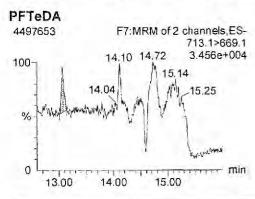


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Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

Name: 4497653, Date: 07-Dec-2019, Time: 01:17:30, ID: 4497653, Description:



# Name	RT	Area	IS#	Factor1	ng/Li	%Rec	Flags	Mod Comment	Mod.Date	Mod Time
1 IS-PFOA-13C2	10.05	987474.88	- ( A ( 3 t) ( to Jun 5	0.860	35.390942	102.9	bb			
2 IS-PFOS-13C4	10.75	322935.31		0.860	104.791641	101.5	bb			
3 IS-NMeFOSAA-d3	11.60	341053.59		0.860	135.423204	98.4	dd			
4 SS-PFHxA-13C2	7.98	623702.81	1	0.860	32.659884	94.9	bd			
5 SS-PFDA-13C2	11.35	704509.13	1	0.860	32.259151	93.8	bd			
6 SS-NEtFOSAA-d5	11.85	276271.34	3	0.860	122.639456	89.1	db			
7 SS-HFPO-DA-13C3	8.38	26869.18	1	0.860	31.850560	92.6	bd			
8 PFBS	6.70	5775.30	2	0.860	1,177701		MM	BI-CM	11-Dec-19	17:03:16
9 PFHxA	7.98	1289.41	1	0.860	0.068017		db			
10 HFPO-DA/GenX	8.40	6.54	1	0,860	0.007575		db			
11 PFHpA	9.20	365.19	1	0.860	0.015704		MM	AP-CM	11-Dec-19	17:06:41
12 PFHxS	9.29	8543.61	2	0.860	2.185496		MM	SP-CM	11-Dec-19	17:10:01
13 ADONA	9.34	517.03	1	0.860	0.016452		bb			
14 PFOA	10.05	10225.51	1	0.860	0.346107		MM	SP-CM	11-Dec-19	17:14:48
15 PFOS	10,75	507.45	2	0.860	0.158144		MM	SP-CM	11-Dec-19	17:19:28
16 PFNA	10.75	544.40	1	0.860	0.018955		bb			
17 9CI-PF3ONS/F-53B major	11.08	1346.93	2	0.860	0.056757		bb			
18 PFDA	11.35	979.70	1	0.860	0.042159		bb			
19 NMeFOSAA	11.61	161.39	3	0.860	0.068440		MM	SP-CM	11-Dec-19	17:26:07
20 PFUnA	11.88	916,93	1	0.860	0.045704		dd			
21 NEIFOSAA	11.86	424.25	3	0,860	0.210292		MM	SP-CM	11-Dec-19	17:34:48
22 11CI-PF3OUdS/F-53B minor	12.08	1168.05	2	0.860	0.071027		bd			
23 PFDoA	12.32	1051.02	1	0.860	0.060453		bb			
24 PFTrDA	12.71	578.75	1	0.860	0.044769		MM	AP-CM	12-Dec-19	09:33:55
25 PFTeDA	13.06	740.31	1	0.860	0.064587		bb			

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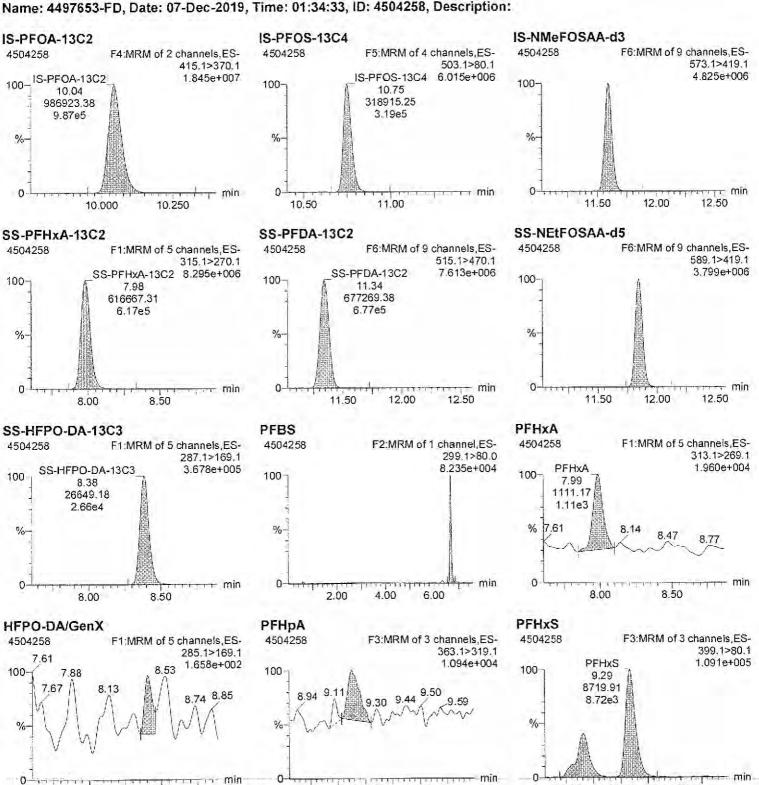
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Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

Name: 4497653-FD, Date: 07-Dec-2019, Time: 01:34:33, ID: 4504258, Description:



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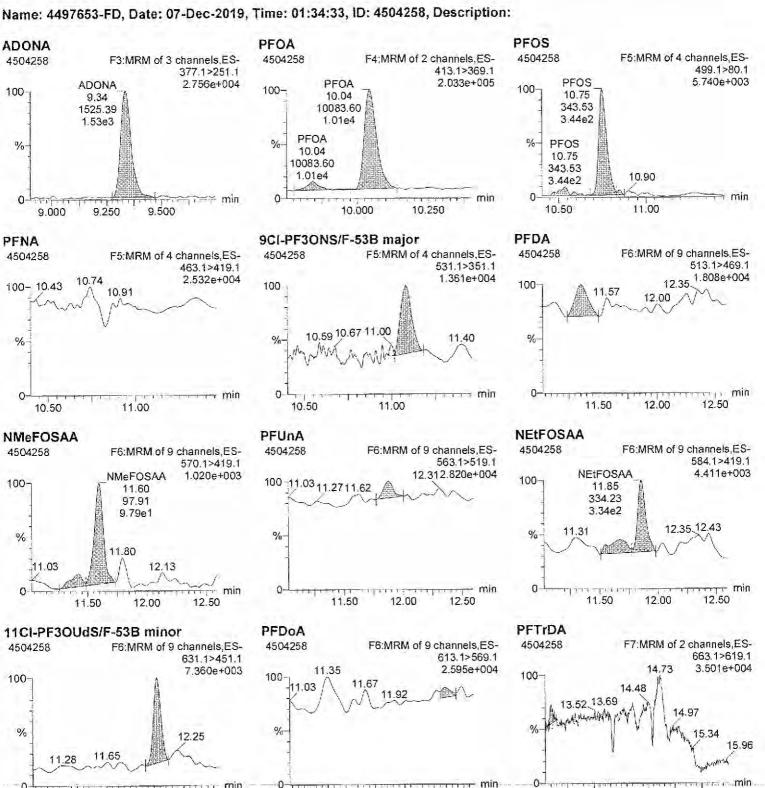
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Last Altered: Printed:

Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time



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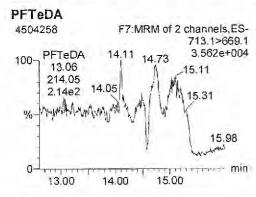
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Last Altered: Printed:

Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

Name: 4497653-FD, Date: 07-Dec-2019, Time: 01:34:33, ID: 4504258, Description:

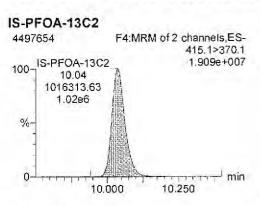


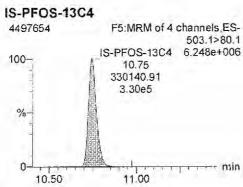
# Name	RT	Area	1S#	Factor1	ng/L	%Rec	Flags	Mod Comment	Mod.Date	Mod Time
1 IS-PFOA-13C2	10.04	986923.38	. 1982	0.810	33.314712	102.8	bb			
2 IS-PFOS-13C4	10.75	318915.25		0.810	97,470447	100.3	bd			
3 IS-NMeFOSAA-d3	11.59	342981.47		0.810	128.270763	99.0	dd			
4 SS-PFHxA-13C2	7.98	616667.31	1	0.810	30.431058	93.9	dd			
5 SS-PFDA-13C2	11.34	677269.38	1	0.810	29.225162	90.2	dd			
6 SS-NEtFOSAA-d5	11.84	266612.84	3	0.810	110.844459	85.5	dd			
7 SS-HFPO-DA-13C3	8.38	26649.18	1	0.810	29.769785	91.9	bd			
8 PFBS	6.69	5767.56	2	0.810	1.121706		bb			
9 PFHxA	7.99	1111.17	1	0.810	0.055238		bb			
10 HFPO-DA/GenX	8.40	5.63	1	0.810	0.006145		bd			
11 PFHpA	9.19	316.82	1	0.810	0.012839		MM	RT-CM	11-Dec-19	17:06:52
12 PFHxS	9.29	8719.91	2	0.810	2.127391		MM	SP-CM	11-Dec-19	17:10:13
13 ADONA	9.34	1525.39	1	0.810	0.045742		bb			
14 PFOA	10.04	10083.60	1	0.810	0.321640		MM	SP-CM	11-Dec-19	17:14:54
15 PFOS	10.75	343.53	2	0.810	0.102106		MM	SP-CM	11-Dec-19	17:19:36
16 PFNA		0	1	0.810	0					
17 9CI-PF3ONS/F-53B major	11.08	637.17	2	0.810	0.025607		MM	RT-CM	11-Dec-19	17:23:34
18 PFDA	11.35	675.52	1	0.810	0.027395		bb			
19 NMeFOSAA	11.60	97.91	3	0.810	0.038884		MM	SP-CM	11-Dec-19	17:26:13
20 PFUnA	11.88	411.87	1	0.810	0.019347		bb			
21 NEtFOSAA	11,85	334.23	3	0.810	0.155164		MM	SP-CM	11-Dec-19	17:34:53
22 11CI-PF3OUdS/F-53B minor	12.07	424.80	2	0.810	0.024637		db			
23 PFDoA	12.34	219.91	1	0.810	0.011920		dd			
24 PFTrDA	12.71	368.66	1	0.810	0.026875		MM	SP-CM	12-Dec-19	09:34:06
25 PFTeDA	13.06	214.05	1	0.810	0.017599		MM	SP-CM	12-Dec-19	09:36:39

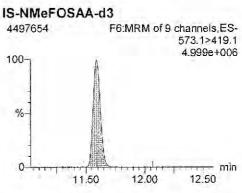
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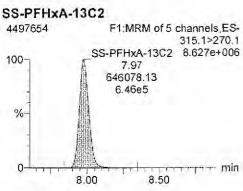
Last Altered: Printed: Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

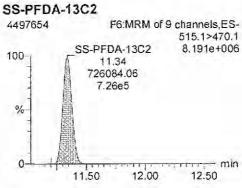
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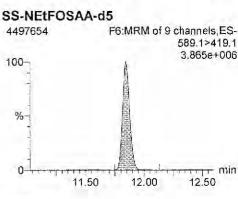


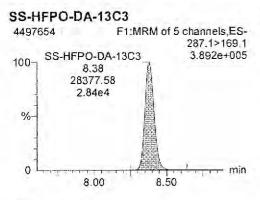


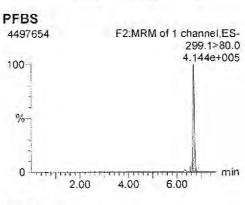


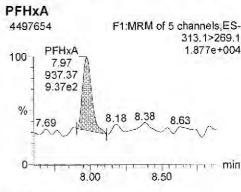


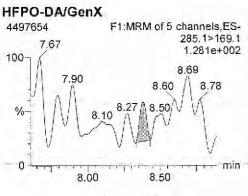


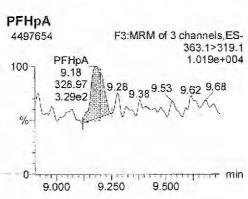


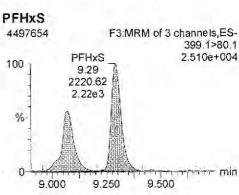












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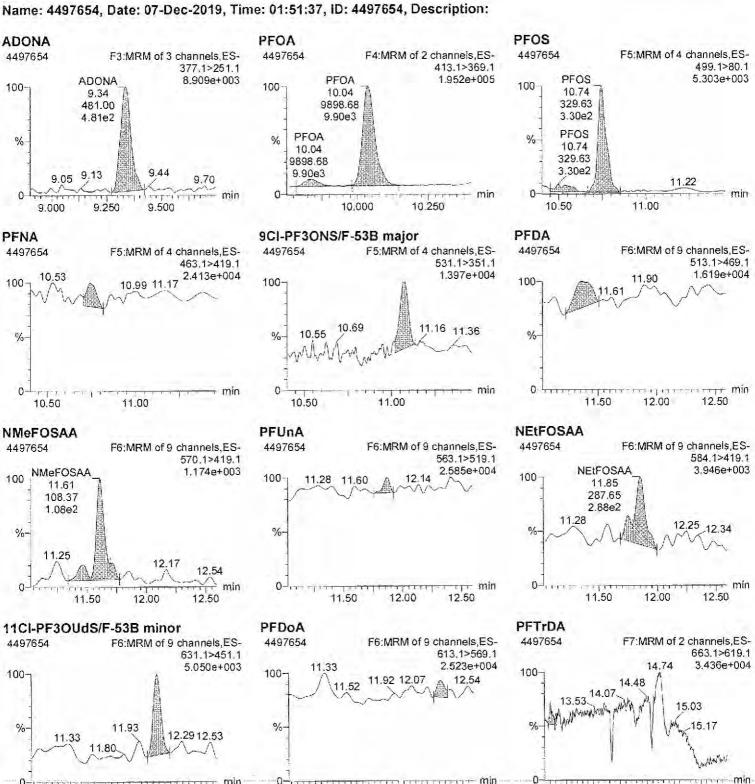
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Dataset:

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Last Altered: Printed:

Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time



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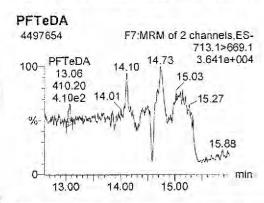
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Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

Name: 4497654, Date: 07-Dec-2019, Time: 01:51:37, ID: 4497654, Description:



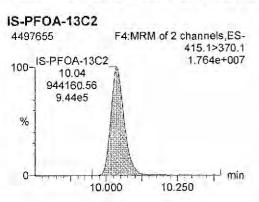
# Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod.Comment	Mod Date	Mod.Time
1 IS-PFOA-13C2	10.04	1016313.63		0.790	33.459732	105.9	bb			
2 IS-PFOS-13C4	10.75	330140.91		0.790	98.409966	103.8	bd			
3 IS-NMeFOSAA-d3	11.59	353944.69		0.790	129.102453	102.1	dd			
4 SS-PFHxA-13C2	7,97	646078.13	1	0.790	30.195966	95.6	bd			
5 SS-PFDA-13C2	11.34	726084.06	1	0.790	29.674278	93.9	dd			
6 SS-NEtFOSAA-d5	11.84	271062.59	3	0.790	106.507414	84.3	bb			
7 SS-HFPO-DA-13C3	8.38	28377.58	1	0.790	30.023752	95.0	bd			
8 PFBS	6.69	29391.66	2	0.790	5.385537		bb			
9 PFHxA	7.97	937.37	1	0.790	0.044133		bb			
10 HFPO-DA/GenX	8.38	2.43	1	0.790	0.002516		bb			
11 PFHpA	9.18	328.97	1	0.790	0.012626		MM	SP-CM	11-Dec-19	17:06:59
12 PFHxS	9.29	2220.62	2	0.790	0.510420		MM	SP-CM	11-Dec-19	17:10:19
13 ADONA	9.34	481.00	1	0.790	0.013661		bb			
14 PFOA	10.04	9898.68	4	0.790	0.299041		MM	SP-CM	11-Dec-19	17:14:59
15 PFOS	10.74	329.63	2	0.790	0.092307		MM	SP-CM	11-Dec-19	17:19:43
16 PFNA	10.74	343.28	1	0.790	0.010668		db			
17 9CI-PF3ONS/F-53B major	11.08	511.92	2	0.790	0.019383		db			
18 PFDA	11.36	666.84	1	0.790	0.025612		bb			
19 NMeFOSAA	11.61	108.37	3	0.790	0.040677		MM	SP-CM	11-Dec-19	17:26:21
20 PFUnA	11.87	236.35	1	0.790	0.010515		bb			
21 NEtFOSAA	11.85	287.65	3	0.790	0.126208		MM	SP-CM	11-Dec-19	17:34:58
22 11CI-PF3OUdS/F-53B minor	12.08	284.30	2	0.790	0.015534		bb			
23 PFDoA	12.31	301.61	1	0.790	0.015484		bd			
24 PFTrDA	12.71	379.63	1	0.790	0.026210		MM	RT-CM	12-Dec-19	09:34:21
25 PFTeDA	13.06	410.20	1	0.790	0.031941		MM	AP-CM	12-Dec-19	09:36:47

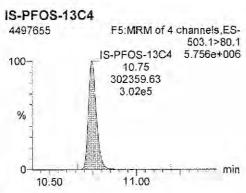
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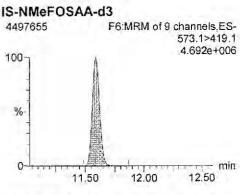
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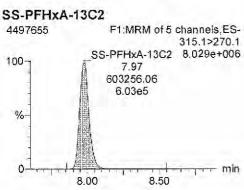
Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

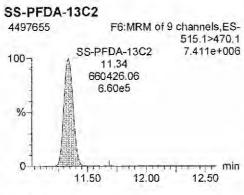
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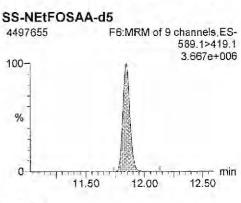


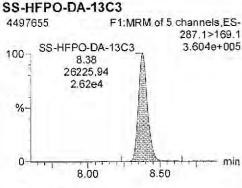


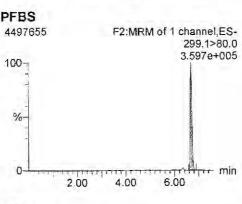


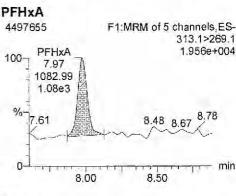


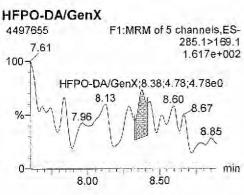


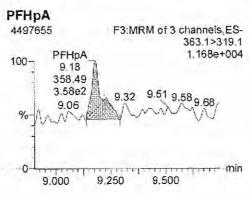


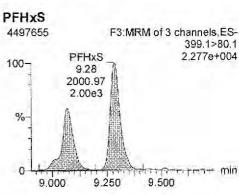












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PFAS by ESI/LC/MS/MS

Dataset:

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Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

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12.45

11,23 11.46

11.50

11.81

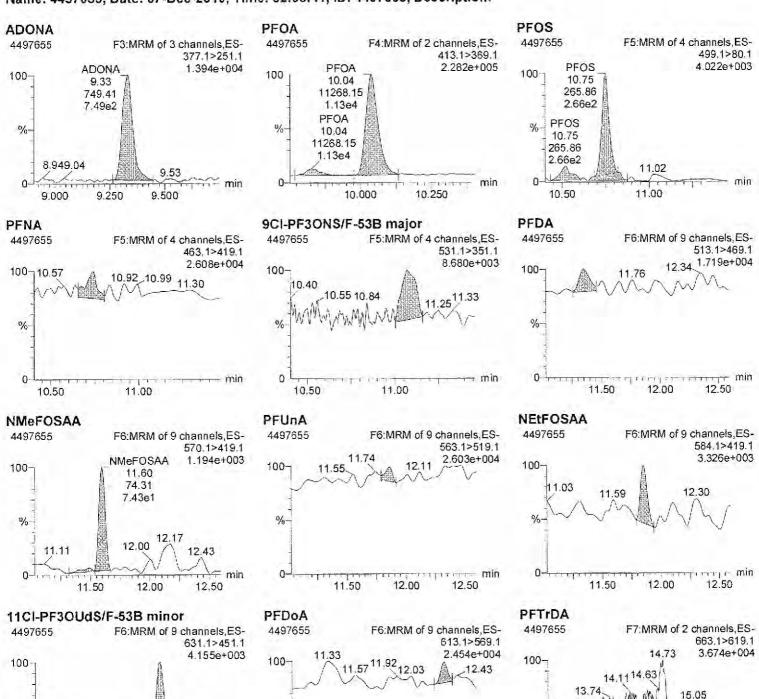
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11.50

rr- min

12.50

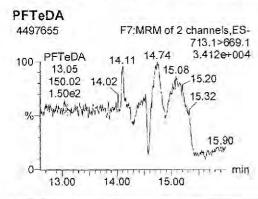
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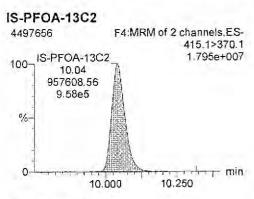


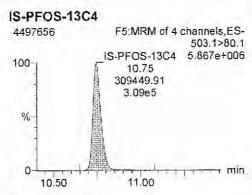
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2 IS-PFOS-13C4	10.75	302359.63		0.820	93.551402	95.1	bb			
3 IS-NMeFOSAA-d3	11.59	331975.47		0.820	125.687431	95.8	bd			
4 SS-PFHxA-13C2	7.97	603256.06	1	0.820	31.501718	96.0	bb			
5 SS-PFDA-13C2	11,34	660426.06	1	0.820	30.156859	91.9	dd			
6 SS-NEtFOSAA-d5	11.84	257156.53	3	0.820	111.821155	85.2	dd			
7 SS-HFPO-DA-13C3	8.38	26225.94	1	0.820	31.001965	94.5	bd			
8 PFBS	6.69	25930.85	2	0.820	5.384979		bb			
9 PFHxA	7.97	1082.99	1	0.820	0.056970		db			
10 HFPO-DA/GenX	8.38	4.78	1	0.820	0.005526		dd			
11 PFHpA	9.18	358.49	1	0.820	0.015373		MM	BI-CM	11-Dec-19	17:07:09
12 PFHxS	9.28	2000.97	2	0.820	0.521262		MM	SP-CM	11-Dec-19	17:10:25
13 ADONA	9.33	749.41	1	0.820	0.023780		bb			
14 PFOA	10.04	11268.15	1	0.820	0.380342		MM	SP-CM	11-Dec-19	17:15:05
15 PFOS	10.75	265.86	2	0.820	0.084377		MM	SP-CM	11-Dec-19	17:19:52
16 PFNA	10.74	476.86	1	0.820	0.016557		dd			
17 9CI-PF3ONS/F-53B major	11.07	384.07	2	0.820	0.016481		bb			
18 PFDA	11.35	374.45	4	0.820	0.016069		dd			
19 NMeFOSAA	11.60	74.31	3	0.820	0.030867		MM	SP-CM	11-Dec-19	17:26:28
20 PFUnA	11.86	251.77	1	0.820	0.012515		db			
21 NEtFOSAA	11.85	115.97	3	0.820	0.056311		bb			
22 11CI-PF3OUdS/F-53B minor	12.08	246.54	2	0.820	0.015267		bd			
23 PFDoA	12.31	329.75	1	0.820	0.018914		bd			
24 PFTrDA	12.70	42.82	1	0.820	0.003303		bb			
25 PFTeDA	13.05	150.02	1	0.820	0.013052		db			

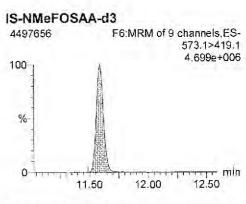
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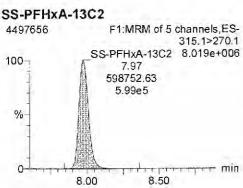
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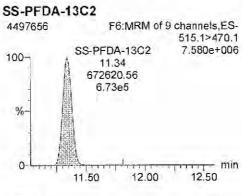
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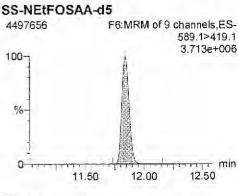


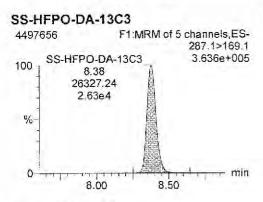


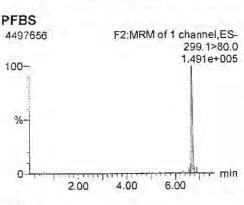


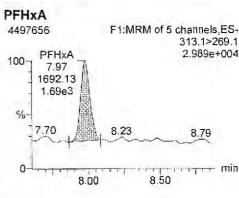


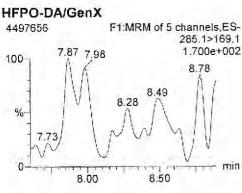


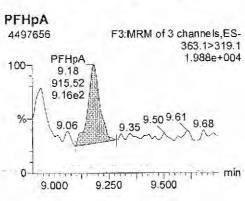


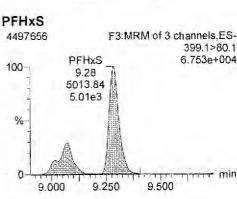












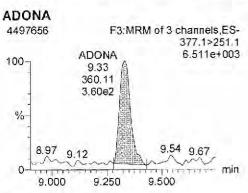
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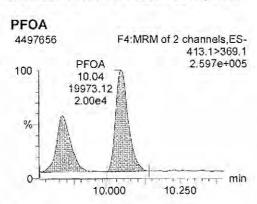
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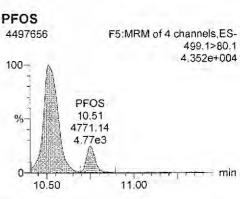
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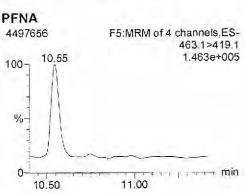
Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

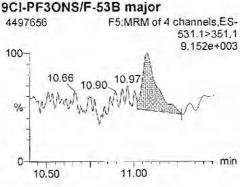
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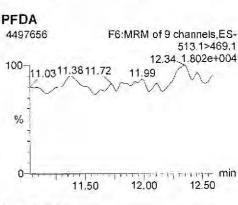


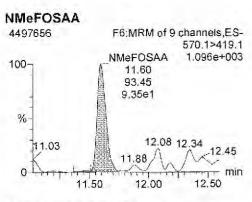


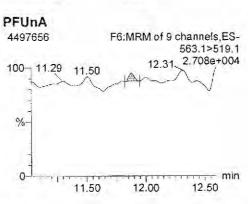


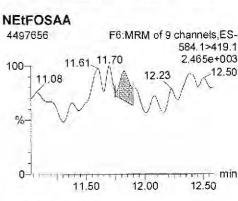


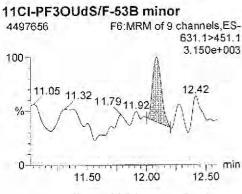


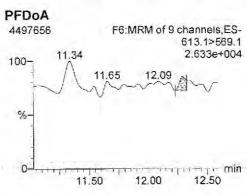


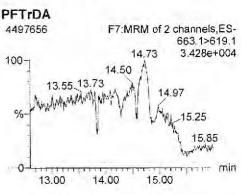












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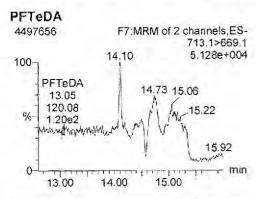
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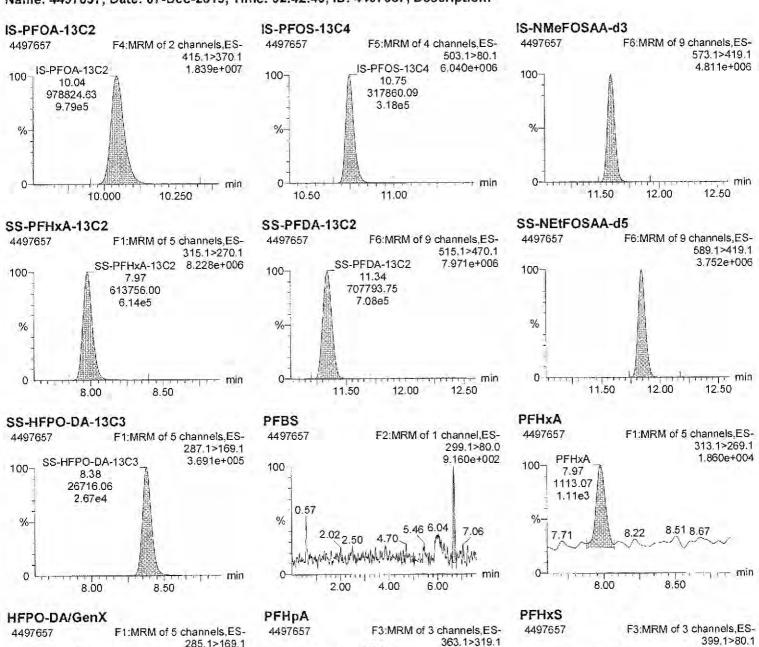


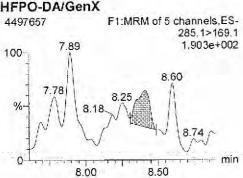
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1 IS-PFOA-13C2	10.04	957608.56		0.810	32.325158	99.8	bb			
2 IS-PFOS-13C4	10.75	309449.91		0.810	94.577543	97.3	bb			
3 IS-NMeFOSAA-d3	11.59	332974.16		0.810	124.528154	96,1	bb			
4 SS-PFHxA-13C2	7.97	598752.63	1	0.810	30.451520	94.0	dd			
5 SS-PFDA-13C2	11.34	672620.56	1	0.810	29.913074	92.3	dd			
6 SS-NEtFOSAA-d5	11.84	261112.89	3	0.810	111.820482	86.3	db			
7 SS-HFPO-DA-13C3	8.38	26327.24	4	0.810	30.310458	93.6	bb			
8 PFBS	6.69	10632.14	2	0.810	2.131045		bb			
9 PFHxA	7.97	1692.13	1	0.810	0.086693		bb			
10 HFPO-DA/GenX		0	1	0.810	0					
11 PFHpA	9.18	915.52	1	0.810	0.038236		bb			
12 PFHxS	9.28	5013.84	2	0.810	1.260639		MM	SP-CM	11-Dec-19	17:10:33
13 ADONA	9.33	360.11	1	0.810	0.011129		bb			
14 PFOA	10.04	19973.12	1	0.810	0.656593		MM	SP-CM	11-Dec-19	17:15:11
15 PFOS	10.51	4771.14	2	0.810	1.461475		MM	SP-CM	11-Dec-19	17:19:58
16 PFNA		0	1	0.810	0					
17 9CI-PF3ONS/F-53B major	11.08	463.00	2	0.810	0.019176		db			
18 PFDA		0	1	0.810	0					
19 NMeFOSAA	11.60	93.45	3	0.810	0.038231		MM	SP-CM	11-Dec-19	17:26:32
20 PFUnA	11.88	112.02	1	0.810	0.005423		bd			
21 NEtFOSAA	11.83	66.06	3	0.810	0.031592		dd			
22 11CI-PF3OUdS/F-53B minor	12.09	160.55	2	0.810	0.009596		bb			
23 PFDoA	12.30	206.48	1	0.810	0.011535		bď			
24 PFTrDA		0	1	0.810	0					
25 PFTeDA	13.05	120.08	1	0.810	0.010175		bd			

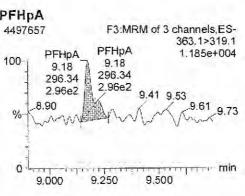
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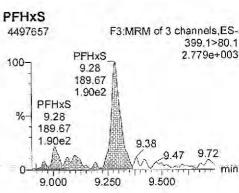
Last Altered: Printed: Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

Name: 4497657, Date: 07-Dec-2019, Time: 02:42:43, ID: 4497657, Description:







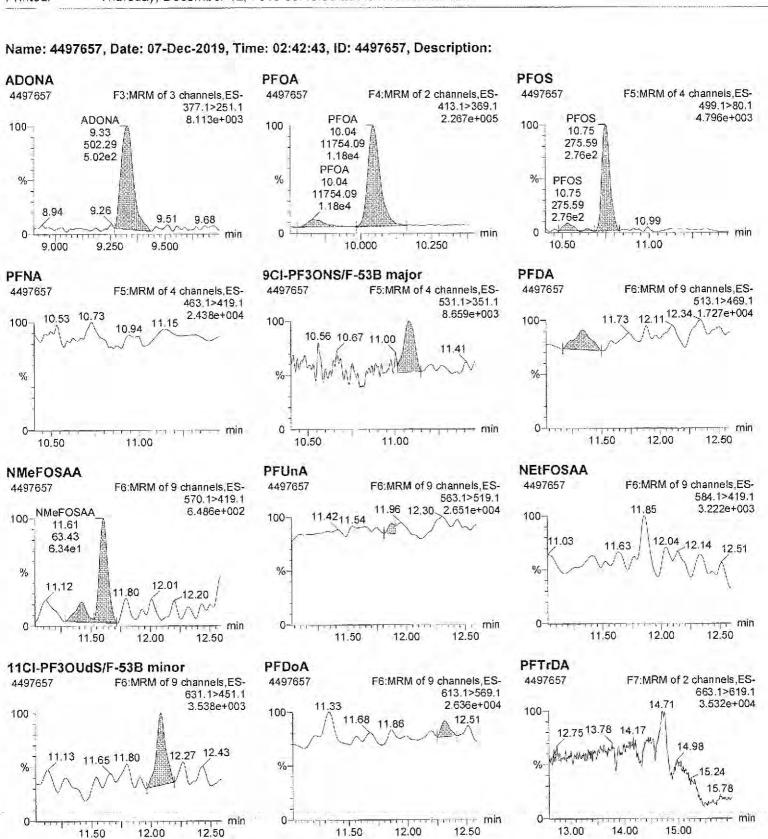


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Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

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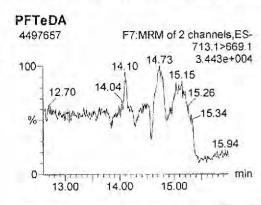
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Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time

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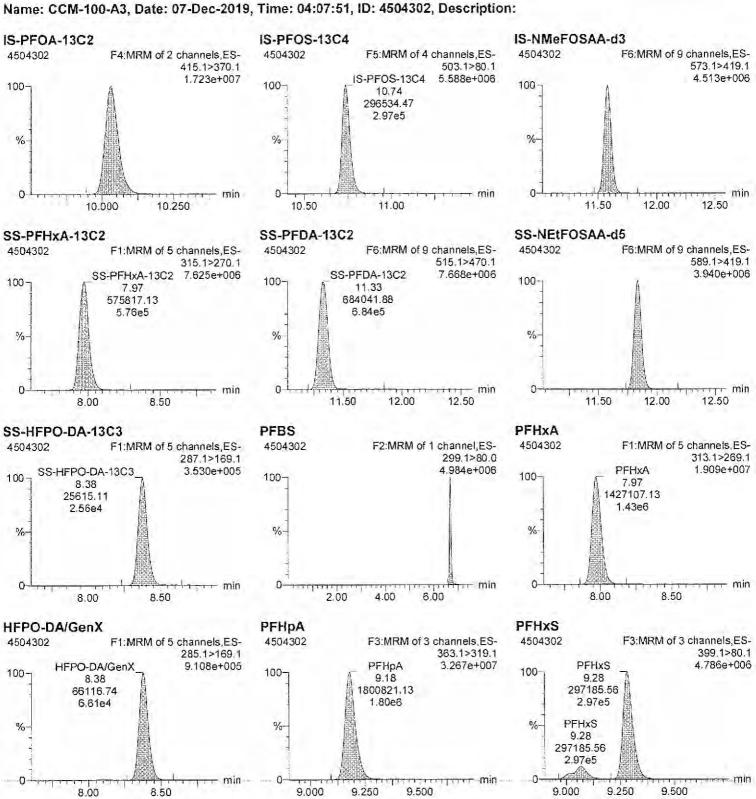


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1 IS-PFOA-13C2	10.04	978824.63		0.890	36.304671	102.0	bb			
2 IS-PFOS-13C4	10.75	317860.09		0.890	106.742818	99.9	bd			
3 IS-NMeFOSAA-d3	11.59	341006.50		0.890	140.127917	98.4	dd			
4 SS-PFHxA-13C2	7,97	613756.00	1	0.890	33.554086	94.3	bd			
5 SS-PFDA-13C2	11.34	707793.75	1	0.890	33.836525	95.0	bd			
6 SS-NEtFOSAA-d5	11.84	264291.84	3	0.890	121.431026	85.3	dd			
7 SS-HFPO-DA-13C3	8.38	26716.06	1	0.890	33.063421	92.9	bb			
8 PFBS	6.69	63.02	2	0.890	0.013511		bb			
9 PFHxA	7.97	1113.07	1	0.890	0.061300		dd			
10 HFPO-DA/GenX	8.41	6.88	1	0.890	0.008323		db			
11 PFHpA	9.18	296.34	1	0.890	0.013304		MM	BI-CM	11-Dec-19	17:07:18
12 PFHxS	9.28	189.67	2	0.890	0.051013		MM	SP-CM	11-Dec-19	17:10:41
13 ADONA	9.33	502.29	1	0.890	0.016687		bb			
14 PFOA	10.04	11754.09	1	0.890	0.415363		MM	SP-CM	11-Dec-19	17:15:16
15 PFOS	10.75	275.59	2	0.890	0.090302		MM	SP-CM	11-Dec-19	17:21:08
16 PFNA		0	1	0.890	0					
17 9CI-PF3ONS/F-53B major	11.08	298.36	2	0.890	0.013219		db			
18 PFDA	11.34	516.94	1	0.890	0.023225		bb			
19 NMeFOSAA	11.61	63.43	3	0.890	0.027841		MM	SP-CM	11-Dec-19	17:26:50
20 PFUnA	11.88	154.89	1	0.890	0.008060		bd			
21 NEtFOSAA		0	3	0.890	0					
22 11Ci-PF3OUdS/F-53B minor	12.08	213.02	2	0.890	0.013619		bb			
23 PFDoA	12.31	314.77	1	0.890	0.018902		ďb			
24 PFTrDA	12.71	62.38	1	0.890	0.005038		db			
25 PFTeDA	13.07	72.88	1	0.890	0.006638		dd			

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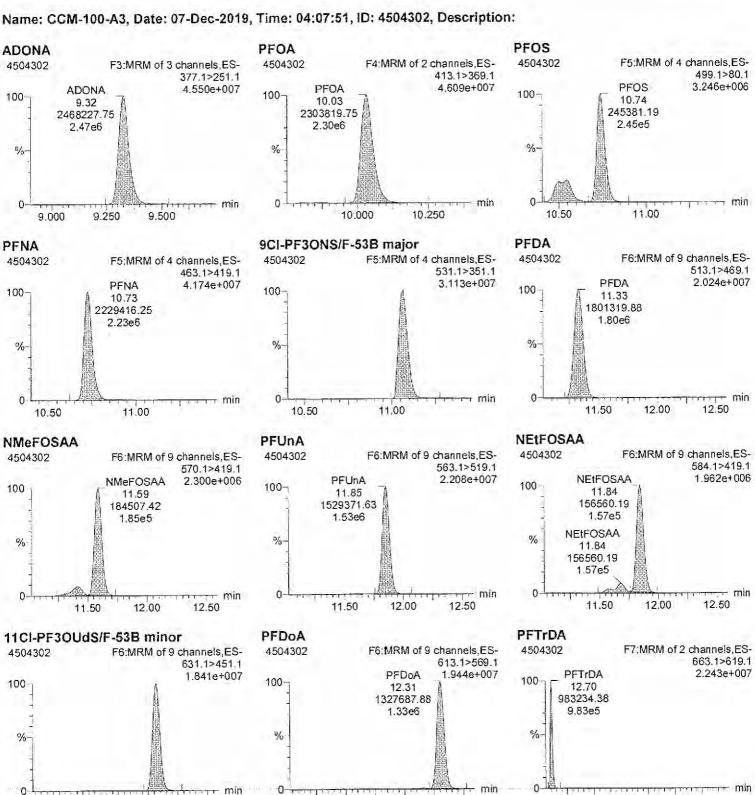
Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time



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Thursday, December 12, 2019 09:37:11 Eastern Standard Time Thursday, December 12, 2019 09:43:58 Eastern Standard Time



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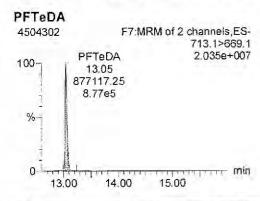
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Name: CCM-100-A3, Date: 07-Dec-2019, Time: 04:07:51, ID: 4504302, Description:



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1 IS-PFOA-13C2	10.03	917583,31		1.000	38.239581	95.6	bb			
2 IS-PFOS-13C4	10.74	296534.47		1.000	111.889114	93.2	bd			
3 IS-NMeFOSAA-d3	11.58	319696.94		1,000	147.608198	92.3	dd			
4 SS-PFHxA-13C2	7.97	575817.13	1	1.000	37.731460	94.3	bd			
5 SS-PFDA-13C2	11.33	684041.88	1	1.000	39.195038	98.0	db			
6 SS-NEtFOSAA-d5	11.84	280010.16	3	1,000	154.189167	96.4	dd			
7 SS-HFPO-DA-13C3	8.38	25615.11	1	1.000	37.996258	95.0	bd			
8 PFBS	6.68	364313.44	2	1.000	94.075643	94.1	bb			
9 PFHxA	7.97	1427107.13	1	1.000	94.203110	94.2	bb			
10 HFPO-DA/GenX	8.38	66116.74	1	1.000	95.828664	95.8	bb			
11 PFHpA	9.18	1800821.13	1	1.000	96.903104	96.9	bb			
12 PFHxS	9.28	297185.56	2	1.000	96.267201	96.3	MM	SP-CM	11-Dec-19	17:11:11
13 ADONA	9.32	2468227.75	1	1.000	98.282171	98.3	bb			
14 PFOA	10.03	2303819.75	1	1.000	97.578988	97.6	bb			
15 PFOS	10.74	245381.19	2	1.000	96,836856	96.8	MM	SP-CM	11-Dec-19	17:21:51
16 PFNA	10.73	2229416.25	1	1.000	97.133297	97.1	bb			
17 9CI-PF3ONS/F-53B major	11.07	1844930.00	2	1.000	98.445110	98.4	bb			
18 PFDA	11.33	1801319.88	1	1.000	97.000477	97.0	bb			
19 NMeFOSAA	11.59	184507.42	3	1.000	97.055272	97.1	MM	SP-CM	11-Dec-19	17:27:26
20 PFUnA	11.85	1529371.63	1	1.000	95.392220	95.4	bb			
21 NEtFOSAA	11.84	156560.19	3	1.000	96.265807	96.3	MM	SP-CM	11-Dec-19	17:35:23
22 11CI-PF3OUdS/F-53B minor	12.07	1261885.50	2	1.000	97.169082	97.2	bb			
23 PFDoA	12.31	1327687.88	1	1.000	95.561018	95.6	bb			
24 PFTrDA	12.70	983234.38	1	1.000	95.175201	95.2	bb			
25 PFTeDA	13.05	877117.25	1	1.000	95.757580	95.8	bb			

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Thursday, December 12, 2019 09:52:46 Eastern Standard Time Thursday, December 12, 2019 09:53:03 Eastern Standard Time

Method: C:\FL\537.1\120619M537.1b-FL.pro\MethDB\120619M537\_1b-FL.mdb 11 Dec 2019 16:40:12

Calibration: 12 Dec 2019 09:52:46

Name: I-2-A3, Date: 06-Dec-2019, Time: 21:35:53, ID: 4504269, Description:

# Name	RT	Area	S#	Factor1	ng/L	%Rec	Flags: Mod.Comment: Mod.Date Mod.Time
1 IS-PFOA-13C2	10.04	981009.63	war a tasili	1.000	40.882823	102.2	bb
2 IS-PFOS-13C4	10.75	326017.59		1.000	123.013759	102.5	bd
3 IS-NMeFOSAA-d3	11.59	353611.72		1.000	163.267090	102.0	dd
4 SS-PFHxA-13C2	7.97	631222.63	1	1.000	38.687782	96.7	bd
5 SS-PFDA-13C2	11.34	729196.75	1	1.000	39.080973	97.7	dd
6 SS-NEtFOSAA-d5	11.84	312892.63	3	1.000	155.771224	97.4	dd
7 SS-HFPO-DA-13C3	8.38	27080.54	1	1.000	37.572861	93.9	bd
8 PFBS	6.69	7986.61	2	1.000	1.875852	93.8	bb
9 PFHxA	7.97	31855.10	1	1.000	1.966799	98.3	bb
10 HFPO-DA/GenX	8.38	1409.09	1	1.000	1.910267	95.5	bb
11 PFHpA	9.18	37791.16	1	1.000	1.902083	95.1	bb
12 PFHxS	9.28	5515.66	2	1.000	1.922413	96.1	bb
13 ADONA	9.32	52006.09	1	1.000	1.936939	96.8	bb
14 PFOA	10.04	49606.80	1	1,000	1.965266	98.3	bb
15 PFOS	10.75	3958.08	2	1.000	2.024270	101.2	bb
16 PFNA	10.74	47311.83	1	1.000	1.928053	96.4	bb
17 9CI-PF3ONS/F-53B major	11.08	40882,98	2	1.000	1.984225	99.2	dd
18 PFDA	11.34	38353.57	1	1.000	1.931795	96.6	bb
19 NMeFOSAA	11,60	3576.28	3	1.000	1.947353	97.4	bb
20 PFUnA	11.86	32682.90	1	1.000	1.906745	95.3	bb
21 NEtFOSAA	11.85	3003.18	3	1.000	1.923982	96.2	bb
22 11CI-PF3OUdS/F-53B minor	12.07	27896.24	2	1.000	1.953836	97.7	bb
23 PFDoA	12.31	28249.84	1	1,000	1.901836	95.1	bb
24 PFTrDA	12.71	21389.49	1	1.000	1.936598	96.8	bb
25 PFTeDA	13.05	18518.54	1	1.000	1.891013	94.6	bb

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Last Altered: Printed:

Thursday, December 12, 2019 09:52:46 Eastern Standard Time Thursday, December 12, 2019 09:53:03 Eastern Standard Time

Name: I-10-A3, Date: 06-Dec-2019, Time: 21:52:57, ID: 4504279, Description:

# Name / Element per la	RJ	Area	IS#	Factor1	ng/L	%Rec	Flags Mod.Comment Mod.Date Mod.Tim
1 IS-PFOA-13C2	10.04	988180.06	~1 1 Mil.	1.000	41.181646	103.0	bb
2 IS-PFOS-13C4	10.75	328146.84		1.000	123.817173	103.2	bd
3 IS-NMeFOSAA-d3	11.59	355150.59		1.000	163.977608	102.5	bb
4 SS-PFHxA-13C2	7.98	660590.13	1	1.000	40.193936	100.5	bd
5 SS-PFDA-13C2	11.34	749423.88	1	1.000	39.873591	99.7	bđ
6 SS-NEtFOSAA-d5	11.84	329051.59	3	1.000	163.106027	101.9	dd
7 SS-HFPO-DA-13C3	8.38	29762.90	1	1.000	40.994852	102.5	bd
8 PFBS	6.69	41552.07	2	1.000	9.696201	97.0	bb
9 PFHxA	7.98	158959.70	1	1.000	9.743279	97,4	bb
10 HFPO-DA/GenX	8.38	7265.95	1	1.000	9.778804	97.8	bb
11 PFHpA	9.18	196317.05	1	1.000	9.809222	98.1	bb
12 PFHxS	9.28	28564.04	2	1.000	9.891034	98.9	bd
13 ADONA	9.32	270211.31	1	1.000	9.990850	99.9	bb
14 PFOA	10.04	251800.73	1	1.000	9.903170	99.0	bb
15 PFOS	10.75	19614.22	2	1.000	9.966151	99.7	bb
16 PFNA	10.74	244669.27	1	1.000	9.898418	99.0	bb
17 9CI-PF3ONS/F-53B major	11.07	199686.44	2	1.000	9.628747	96.3	bb
18 PFDA	11.34	192203.05	1	1.000	9,610649	96.1	bb
19 NMeFOSAA	11.60	17486.89	3	1.000	9.480687	94.8	bb
20 PFUnA	11.86	172625.75	1	1.000	9.998041	100.0	bb
21 NEtFOSAA	11.85	14914.69	3	1.000	9.513678	95.1	bb
22 11CI-PF3OUdS/F-53B minor	12.07	140830.08	2	1.000	9.799649	98.0	bb
23 PFDoA	12.31	149885.84	1	1.000	10.017395	100.2	db
24 PFTrDA	12.71	108657.88	1	1.000	9.766465	97.7	bb
25 PFTeDA	13.05	97579.56	1	1.000	9.891993	98.9	bb

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Thursday, December 12, 2019 09:52:46 Eastern Standard Time

Thursday, December 12, 2019 09:53:03 Eastern Standard Time

# Name: I-50-A3, Date: 06-Dec-2019, Time: 22:10:00, ID: 4504280, Description:

# Name	RT	Area	IS#	Factor1	at a ng/L	%Rec	Flags Mod.Comment Mod.Date Mod.Time
1 IS-PFOA-13C2	10.04	971151.56		1.000	40.471996	101.2	bb
2 IS-PFOS-13C4	10.74	322750.16		1.000	121,780881	101.5	bd
3 IS-NMeFOSAA-d3	11.59	349277.69		1,000	161.266012	100.8	dd
4 SS-PFHxA-13C2	7.97	648338.50	1	1.000	40.140183	100.4	bd
5 SS-PFDA-13C2	11.34	732246.31	1	1.000	39.642779	99.1	dd
6 SS-NEtFOSAA-d5	11.84	322138.75	3	1.000	162.364351	101.5	dd
7 SS-HFPO-DA-13C3	8.38	28677.46	1	1.000	40.192392	100.5	bd
8 PFBS	6.69	210159.97	2	1.000	49.860970	99.7	bb
9 PFHxA	7.97	795697,13	1	1.000	49.626649	99.3	bb
10 HFPO-DA/GenX	8.38	36084.38	1	1.000	49.415338	98.8	bb
11 PFHpA	9.18	987195.38	1	1.000	50.191332	100.4	bb
12 PFHxS	9.28	142052.41	2	1.000	50.011796	100.0	bb
13 ADONA	9.32	1334263.25	1	1.000	50.198360	100.4	bb
14 PFOA	10.04	1244274.63	1	1.000	49.794635	99.6	bb
15 PFOS	10.75	95829.38	2	1.000	49.505895	99.0	bb
16 PFNA	10.73	1225864.00	1	1.000	50.463544	100.9	bb
17 9CI-PF3ONS/F-53B major	11.07	1017436.31	2	1.000	49.880433	99.8	bb
18 PFDA	11.34	962884.50	1	1.000	48.990934	98.0	bb
19 NMeFOSAA	11.60	88872.82	3	1.000	48.993431	98.0	bb
20 PFUnA	11.86	844533.69	1	1.000	49.770889	99.5	bb
21 NEtFOSAA	11.85	77672.35	3	1,000	50.378163	100.8	bb
22 11CI-PF3OUdS/F-53B minor	12.07	699151.13	2	1.000	49.463852	98.9	bb
23 PFDoA	12,31	733213.19	1	1.000	49.862442	99.7	bb
24 PFTrDA	12.71	547571.13	1	1.000	50.080169	100.2	bb
25 PFTeDA	13.05	482741.06	1	1.000	49.795287	99.6	bb

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Last Altered: Printed: Thursday, December 12, 2019 09:52:46 Eastern Standard Time Thursday, December 12, 2019 09:53:03 Eastern Standard Time

Name: I-100-A3, Date: 06-Dec-2019, Time: 22:27:04, ID: 4504281, Description:

# Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags Mod.Comment Mod.Date Mod.Time
1 IS-PFOA-13C2	10.04	932106.88	noserne.	1.000	38.844839	97.1	bd
2 IS-PFOS-13C4	10.75	311162.81		1.000	117.408717	97.8	bb
3 IS-NMeFOSAA-d3	11.60	338154.69		1.000	156.130380	97.6	dd
4 SS-PFHxA-13C2	7.98	601793.44	1	1.000	38.819173	97.0	bb
5 SS-PFDA-13C2	11.34	709406.88	1	1.000	40.015071	100.0	dd
6 SS-NEtFOSAA-d5	11.85	299781.50	3	1.000	156.065882	97.5	db
7 SS-HFPO-DA-13C3	8.38	27347.23	1	1.000	39.933542	99.8	bd
8 PFBS	6.69	395942.69	2	1.000	97.436533	97.4	bb
9 PFHxA	7.98	1516222.25	1	1.000	98.526108	98.5	bb
10 HFPO-DA/GenX	8.38	68690.84	1	1.000	98.008240	98.0	bb
11 PFHpA	9.18	1871790.25	1	1.000	99.152596	99.2	bb
12 PFHxS	9.28	266638.44	2	1.000	97.370049	97.4	bb
13 ADONA	9.33	2515879.50	1	1.000	98.618670	98.6	bb
14 PFOA	10.05	2332045.50	1	1.000	97.235450	97.2	bb
15 PFOS	10.75	182162.98	2	1.000	97.610632	97.6	bb
16 PFNA	10.74	2294602.25	1	1.000	98.415653	98.4	bb
17 9CI-PF3ONS/F-538 major	11.08	1928256.38	2	1.000	98.054274	98.1	bb
18 PFDA	11.34	1863182.38	1	1.000	98.768440	98.8	bb
19 NMeFOSAA	11.61	172854.77	3	1.000	98.425060	98.4	bb
20 PFUnA	11.87	1594833.50	1	1.000	97.925337	97.9	bb
21 NEtFOSAA	11.86	147301.94	3	1.000	98.682413	98.7	bb
22 11Cl-PF3OUdS/F-53B minor	12.08	1311925.50	2	1.000	96.273069	96.3	bb
23 PFDoA	12.32	1396644.38	1	1.000	98.957886	99.0	db
24 PFTrDA	12.71	1028742.69	1	1,000	98.028715	98.0	bb
25 PFTeDA	13.06	908484.38	1	1.000	97.636627	97.6	bd

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Thursday, December 12, 2019 09:52:46 Eastern Standard Time Thursday, December 12, 2019 09:53:03 Eastern Standard Time

Name: I-200-A3, Date: 06-Dec-2019, Time: 22:44:03, ID: 4504282, Description:

# Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags Mod Comment Mod Date Mod T
1 IS-PFOA-13C2	10.04	1000571.19	enno-os <sub>t</sub> on	1.000	41.698037	104.2	bb
2 IS-PFOS-13C4	10.75	329560.84		1.000	124.350707	103.6	bd
3 IS-NMeFOSAA-d3	11.59	362561.78		1.000	167.399449	104.6	db
4 SS-PFHxA-13C2	7.97	698531.94	1	1.000	41.976171	104.9	bb
5 SS-PFDA-13C2	11.34	787006.44	1	1.000	41.354636	103.4	bd
6 SS-NEtFOSAA-d5	11.84	341481.13	3	1.000	165.807144	103.6	dd
7 SS-HFPO-DA-13C3	8.38	30892.01	1	1.000	42.023133	105.1	bb
8 PFBS	6.69	857983.50	2	1.000	199.351962	99.7	bb
9 PFHxA	7.97	3295573.50	1	1.000	199.497374	99.7	bb
10 HFPO-DA/GenX	8.38	149476.55	1	1,000	198.680188	99.3	bb
11 PFHpA	9.18	4074744.25	1	1.000	201.078197	100.5	bb
12 PFHxS	9.28	575421.75	2	1.000	198.399689	99.2	bb
13 ADONA	9.32	5458497.50	1	1.000	199.324251	99.7	bb
14 PFOA	10.04	5145920.50	1	1.000	199.879566	99.9	bb
15 PFOS	10.75	393111.75	2	1.000	198.886407	99.4	bb
16 PFNA	10.73	5004006.50	1	1.000	199.936620	100.0	bb
17 9CI-PF3ONS/F-53B major	11.07	4155907.75	2	1.000	199.535297	99.8	bb
18 PFDA	11.34	4107192.50	1	1.000	202.826923	101.4	bb
19 NMeFOSAA	11.60	377586.00	3	1.000	200.527344	100.3	bb
20 PFUnA	11.86	3448657.50	1	1.000	197.263851	98.6	bb
21 NEtFOSAA	11.85	320624.31	3	1.000	200.336989	100.2	bb
22 11CI-PF30UdS/F-53B minor	12.07	2892010.25	2	1.000	200.376854	100.2	bb
23 PFDoA	12.31	3042013.00	1	1.000	200.790591	100.4	bb
24 PFTrDA	12.70	2240808.50	1	1.000	198.915675	99.5	bb
25 PFTeDA	13.05	1994022.50	1	1.000	199.637938	99.8	bb

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Thursday, December 12, 2019 09:52:46 Eastern Standard Time

Thursday, December 12, 2019 09:53:03 Eastern Standard Time

#### Name: I-250-A3, Date: 06-Dec-2019, Time: 23:01:07, ID: 4504283, Description:

# Name in the last the second	RT	Area	IS#	Factor1	igen g/L	%Rec	Flags: Mod.Comment   Mod.Date   Mod.Time
1 IS-PFOA-13C2	10.04	885934.94	\$ 1850 \$207511	1.000	36.920659	92.3	bb
2 IS-PFOS-13C4	10.75	290543.97		1.000	109.628764	91.4	bd
3 IS-NMeFOSAA-d3	11.59	320457.72		1.000	147.959461	92.5	dd
4 SS-PFHxA-13C2	7.97	592075.38	1	1.000	40.182755	100.5	bd
5 SS-PFDA-13C2	11.34	674567,69	1	1.000	40.032952	100.1	db
6 SS-NEtFOSAA-d5	11.84	285584.50	3	1.000	156.885372	98.1	dd
7 SS-HFPO-DA-13C3	8.38	25569.29	1	1.000	39.283221	98.2	bd
8 PFBS	6.68	962918.38	2	1.000	253.778481	101.5	bb
9 PFHxA	7.97	3695297.50	1	1.000	252.639791	101,1	bb
10 HFPO-DA/GenX	8.38	169340.22	1	1.000	254.207164	101.7	bb
11 PFHpA	9.18	4483295.50	1	1.000	249.866570	99.9	bb
12 PFHxS	9.28	650499.88	2	1.000	254.405018	101.8	bb
13 ADONA	9.32	6108693.00	1	1.000	251.930929	100.8	bb
14 PFOA	10.04	5772312,00	1	1.000	253.221914	101.3	bb
15 PFOS	10.75	442621.25	2	1.000	254.006645	101.6	bb
16 PFNA	10.73	5570210.00	1	1.000	251.357711	100.5	bb
17 9CI-PF3ONS/F-53B major	11.07	4644088.50	2	1.000	252.917024	101.2	bb
18 PFDA	11.34	4480119.50	1	1.000	249.871259	99.9	bb
19 NMeFOSAA	11.59	420445.06	3	1.000	252.626125	101.1	bb
20 PFUnA	11.85	3949359.50	1	1.000	255.135137	102.1	bb
21 NEtFOSAA	11.84	355289.81	3	1.000	251.164775	100.5	bb
22 11CI-PF3OUdS/F-53B minor	12.07	3233621.25	2	1.000	254.132740	101.7	bb
23 PFDoA	12.31	3359905.00	1	1.000	250.469850	100.2	bb
24 PFTrDA	12.70	2526256.25	1	1.000	253.272379	101.3	bb
25 PFTeDA	13.05	2238792.50	1	1.000	253.147142	101.3	bb

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Last Altered: Printed:

Thursday, December 12, 2019 09:52:46 Eastern Standard Time Thursday, December 12, 2019 09:53:03 Eastern Standard Time

Name: CCL-2-A3, Date: 06-Dec-2019, Time: 23:18:10, ID: 4504287, Description:

# Name resemble company of the contract of the	RT	Area	IS#	Factor1	ng/L	%Rec	Flags Mod Comment Mod Date Mod Time
1 IS-PFOA-13C2	10.04	989089.13		1.000	41.219530	103.0	pp
2 IS-PFOS-13C4	10.75	325209.72		1.000	122.708930	102.3	bd
3 IS-NMeFOSAA-d3	11.59	351806.94		1.000	162.433799	101.5	bb
4 SS-PFHxA-13C2	7.97	632112,25	1	1.000	38.425836	96.1	bb
5 SS-PFDA-13C2	11.34	736124.81	1	1.000	39.130008	97.8	bd
6 SS-NEtFOSAA-d5	11.84	312201.75	3	1.000	156.224624	97.6	dd
7 SS-HFPO-DA-13C3	8.38	27174.27	1	1.000	37.394921	93.5	bd
8 PFBS	6.69	7923.57	2	1.000	1.865668	93.3	bb
9 PFHxA	7.97	31458.06	1	1.000	1.926419	96.3	bb
10 HFPO-DA/GenX	8.38	1352.62	1	1.000	1.818737	90.9	bd
11 PFHpA	9.18	38411.96	1	1.000	1.917537	95.9	bb
12 PFHxS	9.28	5559.31	2	1.000	1.942441	97.1	bb
13 ADONA	9.32	52429.36	1	1.000	1.936752	96.8	bb
14 PFOA	10.04	49901.04	1	1.000	1.960774	98.0	bb
15 PFOS	10.75	4235.55	2	1.000	2.171557	108.6	bd
16 PFNA	10.74	48795.07	1	1.000	1.972255	98.6	bb
17 9CI-PF3ONS/F-53B major	11.07	45195.57	2	1.000	2.198983	109.9	db
18 PFDA	11.34	40137.76	1	1.000	2.005147	100.3	bd
19 NMeFOSAA	11.60	4016.99	3	1.000	2.198549	109.9	bb
20 PFUnA	11.86	35028.66	1	1.000	2.026906	101.3	bb
21 NEtFOSAA	11.85	3407.99	3	1.000	2.194522	109.7	bd
22 11CI-PF3OUdS/F-53B minor	12.07	31082.58	2	1.000	2.182413	109.1	bb
23 PFDoA	12.31	31580.82	1	1.000	2.108717	105.4	bb
24 PFTrDA	12.70	22779.93	1	1.000	2.045640	102.3	bb
25 PFTeDA	13.05	20255.88	1	1.000	2.051525	102.6	bb

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Last Altered: Printed: Thursday, December 12, 2019 09:52:46 Eastern Standard Time Thursday, December 12, 2019 09:53:03 Eastern Standard Time

Name: UQCM-100-A3, Date: 06-Dec-2019, Time: 23:35:14, ID: 4504284, Description:

# Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod Comment Mod.	Date Mod Time
1 IS-PFOA-13C2	10.03	1022798.75	ALL STREET	1.000	42.624353	106.6	bd		Survey and desired and survey of the second survey
2 IS-PFOS-13C4	10.74	336209.13		1.000	126.859252	105.7	bb		
3 IS-NMeFOSAA-d3	11.58	366265.16		1.000	169.109345	105.7	dd		
4 SS-PFHxA-13C2	7.97	636459.25	1	1.000	37.414932	93.5	bd		
5 SS-PFDA-13C2	11.33	739451.50	1	1.000	38.011360	95.0	bb		
6 SS-NEtFOSAA-d5	11.84	314359.22	3	1.000	151.094673	94,4	dd		
7 SS-HFPO-DA-13C3	8.38	28658.29	1	1.000	38.137334	95.3	bb		
8 PFBS	6.68	354307.50	2	1.000	80.695262	91.2	bb		
9 PFHxA	7.97	1492879.63	1	1.000	88.407432	88.4	bb		
10 HFPO-DA/GenX	8.38	70496.46	1	1.000	91.665650	91.7	bb		
11 PFHpA	9.18	2051342.13	1	1.000	99.028575	99.0	bb		
12 PFHxS	9.28	232381,61	2	1.000	78.538496	86.1	bb		
13 ADONA	9.32	2584730.50	1	1.000	92.333670	97.7	bb		
14 PFOA	10.04	2547390.50	1	1.000	96.796277	96.8	bb		
15 PFOS	10.74	211050.83	2	1.000	104.665185	113.2	bb		
16 PFNA	10.73	2185585.75	1	1.000	85.427980	85.4	bb		
17 9CI-PF3ONS/F-53B major	11.07	1908627.63	2	1.000	89.825812	96.6	bb		
18 PFDA	11.34	1854029.00	1	1.000	89.568411	89.6	bb		
19 NMeFOSAA	11.59	178985.81	3	1.000	94.094176	94.1	bb		
20 PFUnA	11.85	1743613.00	1	1.000	97.567538	97.6	bb		
21 NEtFOSAA	11.84	151613.42	3	1.000	93.775364	93.8	bb		
22 11Cl-PF3OUdS/F-53B minor	12.07	1295181.13	2	1.000	87.963873	93.6	bb		
23 PFDoA	12.31	1532570.13	1	1.000	98.960175	99.0	bb		
24 PFTrDA	12.70	1175781.50	1	1.000	102.105395	102.1	bb		
25 PFTeDA	13.05	906326.63	1	1.000	88.767822	88.8	bb		

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# Name: LRB-A3, Date: 06-Dec-2019, Time: 23:52:17, ID: 4504306, Description:

# Name	RT	Area	IŞ#	Factor1	ng/L	%Rec	Flags Mod.Comment Mod.Date Mod.Time
1 IS-PFOA-13C2	10.04	1012318.69	VO	0.910	38.390720	105.5	bb
2 IS-PFOS-13C4	10.74	331918.44		0.910	113.968655	104.4	bb
3 IS-NMeFOSAA-d3	11.58	355484.63		0.910	149.359970	102.6	bd
4 SS-PFHxA-13C2	7.97	628792.00	1	0.910	33.985659	93.4	bb
5 SS-PFDA-13C2	11.34	716585.00	1	0.910	33.867704	93.0	dd
6 SS-NEtFOSAA-d5	11,84	276744.38	3	0.910	124.714781	85.7	dd
7 SS-HFPO-DA-13C3	8.38	26741.14	1	0.910	32.718567	89.9	bd
8 PFBS	6.69	16.15	2	0.910	0.003390		db
9 PFHxA	7.97	908,58	- 1	0.910	0.049470		db
10 HFPO-DA/GenX	8.36	3.52	1	0.910	0.004209		bb
11 PFHpA			1	0.910			
12 PFHxS	9.29	21.60	2	0.910	0.006730		db
13 ADONA	9.32	855.61	1	0.910	0.028102		dd
14 PFOA	10.04	2152.78	1	0.910	0.075210		bb
15 PFOS	10.74	340.75	2	0.910	0.155766		bb
16 PFNA	10.74	745.75	1	0.910	0.026800		bb
17 9CI-PF3ONS/F-53B major	11.07	1779.16	2	0.910	0.077182		bd
18 PFDA	11,34	1003.29	1	0.910	0.044563		bd
19 NMeFOSAA	11.59	309.03	3	0.910	0.152320		bd
20 PFUnA	11.86	1329.18	1	0.910	0.068384		db
21 NEIFOSAA	11.85	430.33	3	0.910	0.249558		bd
22 11CI-PF3OUdS/F-53B minor	12.07	1832.00	2	0.910	0.114688		bb
23 PFDoA	12.31	1249.22	1	0.910	0.074164		dd
24 PFTrDA			1	0.910			
25 PFTeDA	13.06	678.92	4	0.910	0.061137		bb

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# Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags: Mod.Comment:: Mod.Date :: Mod.Time
1 IS-PFOA-13C2	10.03	1098693.75		1.000	45.787219	114.5	bb
2 IS-PFOS-13C4	10.74	358192.06		1.000	135.153909	112.6	bb
3 IS-NMeFOSAA-d3	11.59	381671.06		1.000	176.222451	110.1	bb
4 SS-PFHxA-13C2	7.97	768146.00	1	1.000	42.036995	105.1	bb
5 SS-PFDA-13C2	11.34	869353.63	1	1.000	41.601953	104.0	dd
6 SS-NEtFOSAA-d5	11.84	331750.78	3	1.000	153.017561	95.6	dd
7 SS-HFPO-DA-13C3	8.38	33439.00	1	1.000	41.425406	103.6	bb
8 PFBS	6.69	8243.73	2	1.000	1.762321	88.1	bb
9 PFHxA	7.97	33006.47	1	1.000	1.819603	91.0	bb
10 HFPO-DA/GenX	8.38	1402.60	1	1.000	1.697801	84.9	bb
11 PFHpA	9.18	40231.63	1	1.000	1.808021	90.4	bb
12 PFHxS	9.28	5837.99	2	1.000	1.851987	92.6	bb
13 ADONA	9.33	53612.10	1	1.000	1.782876	89.1	bb
14 PFOA	10.03	52179.78	1	1,000	1.845776	92.3	bb
15 PFOS	10.74	4106.32	2	1.000	1.911443	95.6	bb
16 PFNA	10.73	49892.20	1	1.000	1.815426	90.8	bb
17 9CI-PF3ONS/F-53B major	11.07	40237.61	2	1.000	1.777484	88.9	bb
18 PFDA	11.34	39202.90	1	1.000	1.763072	88.2	bb
19 NMeFOSAA	11.59	3357.61	3	1.000	1.693871	84.7	bb
20 PFUnA	11.86	31973.02	1	1.000	1.665530	83.3	bb
21 NEtFOSAA	11.85	2937.89	3	1.000	1.743786	87.2	bd
22 11CI-PF3OUdS/F-53B minor	12.07	25761.92	2	1.000	1.642274	82.1	bb
23 PFDoA	12.31	26311.54	1	1.000	1.581612	79.1	db
24 PFTrDA	12.70	19549.87	1	1.000	1.580446	79.0	bb
25 PFTeDA	13.05	16815.09	1	1.000	1.533146	76.7	bb

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# Name	RT	Area	IS#	Factor1	ang/L	%Rec	lags Mod Comment Mod	Date Mod.Time
1 IS-PFOA-13C2	10.04	998516.88		1.000	41.612425	104.0	bd	
2 IS-PFOS-13C4	10.75	325493.38		1.000	122.815959	102.3	bb	
3 IS-NMeFOSAA-d3	11.59	356471.78		1.000	164.587618	102.9	dd	
4 SS-PFHxA-13C2	7.97	620545.06	1	1.000	37.366503	93.4	bd	
5 SS-PFDA-13C2	11.34	726480.38	1	1.000	38.252726	95.6	bd	
6 SS-NEtFOSAA-d5	11.84	274741.22	3	1.000	135.680433	84.8	dd	
7 SS-HFPO-DA-13C3	8.38	26008.80	1	1.000	35.453176	88.6	bb	
8 PFBS	6.68	405407.00	2	1.000	95.373182	95.4	bb	
9 PFHxA	7.97	1527762.63	4	1.000	92.673304	92.7	bb	
10 HFPO-DA/GenX	8.38	64449.54	1	1.000	85.840834	85.8	bb	
11 PFHpA	9.18	1891061.13	1	1.000	93.511016	93.5	bb	
12 PFHxS	9.29	277025.81	2	1,000	96.709337	96.7	bb	
13 ADONA	9.33	2487354.25	1	1.000	91.015896	91.0	bb	
14 PFOA	10.04	2454393.50	1	1.000	95.530511	95.5	bb	
15 PFOS	10.75	184322.08	2	1.000	94.419107	94.4	bb	
16 PFNA	10.74	2402701.25	1	1.000	96.198176	96.2	bb	
17 9CI-PF3ONS/F-53B major	11,08	1931919.50	2	1.000	93.915292	93.9	bb	
18 PFDA	11.34	1884821.50	1	1.000	93.270296	93.3	bb	
19 NMeFOSAA	11.60	164470.45	3	1.000	88.838757	88.8	bb	
20 PFUnA	11.87	1565690.00	1	1.000	89.742012	89.7	bb	
21 NEtFOSAA	11.85	136172.23	3	1.000	86.538651	86.5	bb	
22 11CI-PF3OUdS/F-53B minor	12.08	1274260.88	2	1,000	89.392180	89.4	bb	
23 PFDoA	12.31	1337640.13	1	1.000	88.473695	88.5	bb	
24 PFTrDA	12.71	977013.06	1	1.000	86.907492	86.9	bb	
25 PFTeDA	13.06	867523.50	1	1.000	87.033581	87.0	bb	

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Name: 4496046, Date: 07-Dec-2019, Time: 00:43:23, ID: 4496046, Description:

# Name:	RT	Area	IS#	Factor1	alle a graying/Lag	%Rec	Flags Mod Comment Mod Date Mod Time
1 IS-PFOA-13C2	10.04	1047395.38		0.980	42.776411	109.1	bb
2 IS-PFOS-13C4	10.75	341125.00		0.980	126.139840	107.3	dd
3 IS-NMeFOSAA-d3	11.60	369727.91		0.980	167.293979	106.7	dd
4 SS-PFHxA-13C2	7.99	659306.63	1	0.980	37.090903	94.6	bb
5 SS-PFDA-13C2	11.34	718264.69	1	0.980	35.334085	90.1	bb
6 SS-NEtFOSAA-d5	11.85	286208.22	3	0.980	133.550187	85.2	db
7 SS-HFPO-DA-13C3	8.39	28295.82	1	0.980	36.035285	91.9	þd
8 PFBS	6.69	76143.95	2	0.980	16.750398		bb
9 PFHxA	7.99	328122.81	1	0.980	18.595421		bb
10 HFPO-DA/GenX	8.40	12.96	1	0.980	0.016126		db
11 PFHpA	9,19	152451.88	1	0.980	7.043051		dd
12 PFHxS	9.29	95942.63	2	0.980	31.319473		bb
13 ADONA	9.34	723.37	1	0.980	0.024729		bb
14 PFOA	10.04	392059.38	1	0.980	14.256752		dd
15 PFOS	10.75	55550.75	2	0.980	26.608915		bb
16 PFNA	10.74	42799.50	1	0.980	1.600946		bb
17 9CI-PF3ONS/F-53B major	11.08	1690.34	2	0.980	0.076838		bb
18 PFDA	11.35	13749.02	1	0.980	0.635646		bb
19 NMeFOSAA	11.61	215.86	3	0.980	0.110167		dd
20 PFUnA	11.87	1030.74	1	0.980	0.055196		bb
21 NEIFOSAA	11.86	557.38	3	0.980	0,334689		bb
22 11Cl-PF3OUdS/F-53B minor	12.08	1323.17	2	0.980	0.086798		bd
23 PFDoA	12.32	1049.39	1	0.980	0.064846		dd
24 PFTrDA	12.72	728.11	1	0.980	0.060509		bb
25 PFTeDA			1	0.980			

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Name: 4496046-LFSMM, Date: 07-Dec-2019, Time: 01:00:26, ID: 4504257, Description:

#:Name:	RT	Area	IS#	Factor1	ng/L	%Rec	Flags: Mod.Comment: Mod.Date Mod.Time
1 IS-PFOA-13C2	10,04	1033387.31	**************************************	1.000	43.065623	107.7	bb
2 IS-PFOS-13C4	10.75	335399.13		1.000	126.553621	105.5	bd
3 IS-NMeFOSAA-d3	11.60	359470.66		1,000	165.972237	103.7	bb
4 \$S-PFHxA-13C2	7.98	730562,00	1	1,000	42.506808	106.3	bd
5 SS-PFDA-13C2	11.34	811246.50	1	1.000	41.274671	103.2	bb
6 SS-NEtFOSAA-d5	11.85	311829.97	3	1.000	152.711929	95.4	dd
7 SS-HFPO-DA-13C3	8.39	31574.43	1	1.000	41.587476	104.0	bb
8 PFBS	6.69	512715.94	2	1.000	117.055568	117.1	bb
9 PFHxA	7.98	2000563.63	1	1.000	117.258252	117.3	bb
10 HFPO-DA/GenX	8.39	73341.92	1	1.000	94.388408	94.4	bb
11 PFHpA	9.19	2204298.50	1	1.000	105.322195	105.3	bb
12 PFHxS	9.29	393142.38	2	1.000	133.192034	133.2	bb
13 ADONA	9.33	2749130.50	1	1.000	97.200220	97.2	bb
14 PFOA	10.04	3013254.25	1	1.000	113.325064	113.3	bb
15 PFOS	10.75	252272.13	2	1.000	125.409958	125,4	bb
16 PFNA	10.74	2529103.75	1	1.000	97.842151	97.8	bb
17 9CI-PF3ONS/F-53B major	11.08	1988353.63	2	1.000	93.803953	93.8	bb
18 PFDA	11.34	1942532.88	1	1.000	92.882477	92.9	bb
19 NMeFOSAA	11.60	167082.72	3	1.000	89.496867	89.5	bb
20 PFUnA	11.87	1595291.13	1	1.000	88.353195	88.4	bb
21 NEtFOSAA	11.86	141245.39	3	1.000	89.013843	89.0	bb
22 11CI-PF3OUdS/F-53B minor	12.08	1271786.25	2	1.000	86.583579	86.6	bb
23 PFDoA	12.31	1342523.00	1	1.000	85.800318	85.8	db
24 PFTrDA	12.71	988823.75	1	1.000	84.990038	85.0	bb
25 PFTeDA	13.06	898626.88	1	1.000	87.111861	87.1	bb

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Name: 4497653, Date: 07-Dec-2019, Time: 01:17:30, ID: 4497653, Description:

# Name	制制 <b>RT</b> 集	Area	IS#	Factor1	ng/L	%Rec	Flags Mod.Comment Mod.Date Mod.Tim
1 IS-PFOA-13C2	10.05	987474.88		0.860	35,390942	102.9	bb
2 IS-PFOS-13C4	10.75	322935.31		0.860	104.791641	101.5	bb
3 IS-NMeFOSAA-d3	11,60	341053.59		0.860	135.423204	98.4	dd
4 SS-PFHxA-13C2	7.98	623702.81	1	0.860	32.659884	94.9	bd
5 SS-PFDA-13C2	11.35	704509.13	1	0.860	32.259151	93.8	bd
6 SS-NEtFOSAA-d5	11.85	276271.34	3	0.860	122.639456	89,1	db
7 SS-HFPO-DA-13C3	8.38	26869.18	1	0.860	31.850560	92.6	bd
8 PFBS	6.70	5725.57	2	0.860	1.167559		bd
9 PFHxA	7.98	1289.41	1	0.860	0.068017		db
10 HFPO-DA/GenX	8.40	6.54	1	0.860	0.007575		db
11 PFHpA			1	0.860			
12 PFHxS	9.29	5947.08	2	0.860	1.799605		bb
13 ADONA	9.34	517.03	1	0.860	0.016452		bb
14 PFOA	10.05	9345.06	1	0.860	0.316306		bb
15 PFOS	10.75	427.35	2	0.860	0.189755		bb
16 PFNA	10.75	544.40	1	0.860	0.018955		bb
17 9CI-PF3ONS/F-53B major	11.08	1346.93	2	0.860	0.056757		bb
18 PFDA	11.35	979.70	1	0.860	0.042159		dd
19 NMeFOSAA	11.61	173.13	3	0.860	0.084062		bd
20 PFUnA	11.88	916.93	1	0.860	0.045704		dd
21 NEtFOSAA	11.86	281.35	3	0.860	0.160718		bb
22 11CI-PF3OUdS/F-53B minor	12.08	1168.05	2	0.860	0.071027		bd
23 PFDoA	12.32	1051.02	1	0.860	0.060453		bb
24 PFTrDA			1	0.860			
25 PFTeDA	13.06	740.31	1	0.860	0.064587		bb

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Name: 4497653-FD, Date: 07-Dec-2019, Time: 01:34:33, ID: 4504258, Description:

# Name	aşa işRT#	Area	IS#	Factor1	ng/L	%Rec	Flags Mod Comment Mod Date Mod Time
1 IS-PFOA-13C2	10.04	986923.38		0.810	33.314712	102.8	bb
2 IS-PFOS-13C4	10.75	318915.25		0.810	97.470447	100.3	bd
3 IS-NMeFOSAA-d3	11.59	342981.47		0.810	128.270763	99.0	dd
4 SS-PFHxA-13C2	7.98	616667.31	1	0.810	30.431058	93.9	dd
5 SS-PFDA-13C2	11.34	677269.38	1	0.810	29.225162	90.2	dd
6 SS-NEtFOSAA-d5	11.84	266612.84	3	0.810	110.844459	85.5	dd
7 SS-HFPO-DA-13C3	8.38	26649.18	1	0.810	29.769785	91.9	pq
8 PFBS	6.69	5767.56	2	0.810	1,121706		bb
9 PFHxA	7.99	1111.17	1	0.810	0.055238		bb
10 HFPO-DA/GenX	8.40	5.63	1	0.810	0.006145		bd
11 PFHpA	9.11	66.50	1	0.810	0.002695		bb
12 PFHxS	9.29	5686.36	2	0.810	1.641098		bb
13 ADONA	9.34	1525.39	1	0.810	0.045742		bb
14 PFOA	10.04	9366.74	1	0.810	0.298775		bb
15 PFOS	10.75	290.17	2	0.810	0.122880		bb
16 PFNA			1	0.810			
17 9CI-PF3ONS/F-53B major	11.00	28.08	2	0.810	0.001129		bb
18 PFDA	11.35	675.52	1	0.810	0.027395		bb
19 NMeFOSAA	11.60	81.41	3	0.810	0.037018		bb
20 PFUnA	11.88	411.87	1	0.810	0.019347		bb
21 NEtFOSAA	11.85	223.00	3	0.810	0.119304		bb
22 11CI-PF3OUdS/F-53B minor	12.07	424.80	2	0.810	0.024637		db
23 PFDoA	12.34	219.91	1	0.810	0.011920		dd
24 PFTrDA	12.71	362.18	1	0.810	0.026402		dd
25 PFTeDA	13.06	152.47	1	0.810	0.012535		bd

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#### Name: 4497654, Date: 07-Dec-2019, Time: 01:51:37, ID: 4497654, Description:

# Name	RT	Area	IS#	Factor1	is a ling/Lin	%Rec	Flags Mod Comment Mod Date Mod Time
1 IS-PFOA-13C2	10.04	1016313.63		0.790	33.459732	105.9	bb
2 IS-PFOS-13C4	10.75	330140.91		0.790	98.409966	103.8	bd
3 IS-NMeFOSAA-d3	11.59	353944.69		0.790	129.102453	102.1	dd
4 SS-PFHxA-13C2	7.97	646078.13	1	0.790	30.195966	95.6	bd
5 SS-PFDA-13C2	11.34	726084.06	1	0.790	29.674278	93.9	dd
6 SS-NEtFOSAA-d5	11.84	271062.59	3	0.790	106.507414	84.3	bb
7 SS-HFPO-DA-13C3	8.38	28377.58	1	0.790	30.023752	95.0	bd
8 PFBS	6.69	29391.66	2	0.790	5.385537		bb
9 PFHxA	7.97	937.37	1	0.790	0.044133		bb
10 HFPO-DA/GenX	8.38	2.43	1	0.790	0.002516		bb
11 PFHpA	9.18	240.05	1	0.790	0.009213		bd
12 PFHxS	9.29	1332.17	2	0.790	0.362225		bd
13 ADONA	9.34	481.00	1	0.790	0.013661		bb
14 PFOA	10.04	9017.21	1	0.790	0.272411		bb
15 PFOS	10.74	293.44	2	0.790	0.117075		bb
16 PFNA	10.74	343.28	1	0.790	0.010668		db
17 9CI-PF3ONS/F-53B major	11.08	511.92	2	0.790	0.019383		db
18 PFDA	11.36	666.84	1	0.790	0.025612		bb
19 NMeFOSAA	11.61	81.89	3	0.790	0.035194		bd
20 PFUnA	11.87	236.35	1	0.790	0.010515		bb
21 NEtFOSAA	11.85	166.26	3	0.790	0.084068		bb
22 11CI-PF3OUdS/F-53B minor	12.08	284.30	2	0.790	0.015534		bb
23 PFDoA	12.31	301.61	1	0.790	0.015484		bd
24 PFTrDA	12.81	44.66	1	0.790	0.003084		bb
25 PFTeDA			1	0.790			

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Thursday, December 12, 2019 09:52:46 Eastern Standard Time Thursday, December 12, 2019 09:53:03 Eastern Standard Time

Name: 4497655, Date: 07-Dec-2019, Time: 02:08:41, ID: 4497655, Description:

# Name Out 10 to 1	e a RT⊟	Area	IS#	Factor1	ang/L	%Rec	Flags: Mod Comment: Mod Date Mod Tir
1 IS-PFOA-13C2	10.04	944160.56	entert er e	0.820	32.264677	98.4	bb
2 IS-PFOS-13C4	10.75	302359.63		0.820	93.551402	95.1	bb
3 IS-NMeFOSAA-d3	11.59	331975.47		0.820	125.687431	95.8	bd
4 SS-PFHxA-13C2	7.97	603256.06	1	0.820	31.501718	96.0	bb
5 SS-PFDA-13C2	11.34	660426.06	1	0.820	30.156859	91.9	dd
6 SS-NEtFOSAA-d5	11.84	257156.53	3	0.820	111.821155	85.2	đd
7 SS-HFPO-DA-13C3	8.38	26225.94	1	0.820	31.001965	94.5	bd
8 PFBS	6.69	25930.85	2	0.820	5.384979		bb
9 PFHxA	7.97	1082.99	1	0.820	0.056970		db
10 HFPO-DA/GenX	8.38	4.78	1	0.820	0.005526		dd
11 PFHpA	9.18	176.82	1	0.820	0.007582		bb
12 PFHxS	9.28	1210.91	2	0.820	0.373156		bb
13 ADONA	9.33	749.41	1	0.820	0.023780		bb
14 PFOA	10.04	10579.97	1	0.820	0.357113		bb
15 PFOS	10.75	185.13	2	0.820	0.083710		bb
16 PFNA	10.74	476.86	1	0.820	0.016557		dd
17 9CI-PF3ONS/F-53B major	11.07	384.07	2	0.820	0.016481		bb
18 PFDA	11.35	374.45	1	0.820	0.016069		dd
19 NMeFOSAA	11,60	69.30	3	0.820	0.032961		bb
20 PFUnA	11,86	251.77	1	0.820	0.012515		db
21 NEtFOSAA	11.85	115.97	3	0.820	0.064895		bb
22 11CI-PF3OUdS/F-53B minor	12.08	246.54	2	0.820	0.015267		bd
23 PFDoA	12.31	329.75	1	0.820	0.018914		bd
24 PFTrDA	12.70	42.82	1	0.820	0.003303		bb
25 PFTeDA	13.05	150.02	1	0.820	0.013052		đb

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Thursday, December 12, 2019 09:52:46 Eastern Standard Time Thursday, December 12, 2019 09:53:03 Eastern Standard Time Printed:

Name: 4497656, Date: 07-Dec-2019, Time: 02:25:43, ID: 4497656, Description:

# Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags: Mod.Comment::: Mod.Date::::: Mod.Time
1 IS-PFOA-13C2	10.04	957608.56		0.810	32.325158	99.8	bb
2 IS-PFOS-13C4	10.75	309449.91		0.810	94.577543	97.3	bb
3 IS-NMeFOSAA-d3	11.59	332974.16		0.810	124.528154	96.1	bb
4 SS-PFHxA-13C2	7.97	598752.63	1	0.810	30.451520	94.0	dd
5 SS-PFDA-13C2	11.34	672620.56	1	0.810	29.913074	92.3	dd
6 SS-NEtFOSAA-d5	11.84	261112.89	3	0.810	111.820482	86.3	db
7 SS-HFPO-DA-13C3	8.38	26327.24	1	0.810	30.310458	93.6	bb
8 PFBS	6.69	10632.14	2	0.810	2,131045		bb
9 PFHxA	7.97	1692.13	1	0.810	0.086693		bb
10 HFPO-DA/GenX			1	0.810			
11 PFHpA	9.18	915.52	1	0.810	0.038236		bb
12 PFHxS	9.28	3546.62	2	0.810	1.054871		bb
13 ADONA	9.33	360.11	1	0.810	0.011129		bb
14 PFOA	10.04	12378.11	1	0.810	0.406916		bb
15 PFOS	10.75	577.24	2	0.810	0.251927		bb
16 PFNA			1	0.810			
17 9CI-PF3ONS/F-53B major	11.08	463.00	2	0.810	0.019176		db
18 PFDA			1	0.810			
19 NMeFOSAA	11.60	90.47	3	0.810	0.042376		bb
20 PFUnA	11.88	112.02	1	0.810	0.005423		bd
21 NEtFOSAA	11.83	66.06	3	0.810	0.036408		dd
22 11Cl-PF3OUdS/F-53B minor	12.09	160.55	2	0.810	0.009596		bb
23 PFDoA	12.30	206.48	1	0.810	0.011535		bd
24 PFTrDA			1	0.810			
25 PFTeDA	13.05	120.08	1	0.810	0.010175		bd

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#### Name: 4497657, Date: 07-Dec-2019, Time: 02:42:43, ID: 4497657, Description:

# Name:	RT	Area	IS#	Factor1	ng/L	%Rec	Flags Mod Comment Mod Date Mod Time
1 IS-PFOA-13C2	10.04	978824.63	. T.COWISKI	0.890	36.304671	102.0	bb
2 IS-PFOS-13C4	10.75	317860.09		0.890	106.742818	99.9	bd
3 IS-NMeFOSAA-d3	11.59	341006.50		0.890	140.127917	98.4	dd
4 SS-PFHxA-13C2	7.97	613756.00	1	0.890	33.554086	94.3	bd
5 SS-PFDA-13C2	11.34	707793.75	1	0.890	33.836525	95.0	bd
6 SS-NEtFOSAA-d5	11.84	264291.84	3	0.890	121.431026	85.3	dd
7 SS-HFPO-DA-13C3	8.38	26716.06	1	0.890	33.063421	92.9	bb
8 PFBS	6.69	63.02	2	0.890	0.013511		bb
9 PFHxA	7.97	1113.07	1	0.890	0.061300		dd
10 HFPO-DA/GenX	8.41	6.88	1	0.890	0.008323		db
11 PFHpA	9.18	170.41	1	0.890	0.007650		bb
12 PFHxS	9.28	139.58	2	0,890	0.044408		dd
13 ADONA	9.33	502.29	1	0.890	0.016687		bb
14 PFOA	10.04	10793.45	1	0.890	0.381416		bb
15 PFOS	10.75	252.30	2	0.890	0.117786		bb
16 PFNA			1	0.890			
17 9CI-PF3ONS/F-53B major	11.08	298.36	2	0.890	0.013219		db
18 PFDA	11,34	516.94	1	0.890	0.023225		bb
19 NMeFOSAA	11.61	47.71	3	0.890	0.023978		bb
20 PFUnA	11.88	154.89	1	0.890	0.008060		bd
21 NEtFOSAA			3	0.890			
22 11CI-PF3OUdS/F-53B minor	12.08	213.02	2	0.890	0.013619		bb
23 PFDoA	12.31	314.77	4	0.890	0.018902		db
24 PFTrDA	12.71	62.38	1	0.890	0.005038		db
25 PFTeDA	13,07	72.88	1	0.890	0.006638		dd

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Name: 4496376, Date: 07-Dec-2019, Time: 02:59:46, ID: 4496376, Description:

# Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags Mod Comment Mod Date Mod Time
1 IS-PFOA-13C2	10.04	1039849.19		0.880	38.134727	108.3	bb
2 IS-PFOS-13C4	10.75	336407,69		0.880	111.702074	105.8	bb
3 IS-NMeFOSAA-d3	11.59	358943.03		0.880	145.841190	103.6	db
4 SS-PFHxA-13C2	7.97	653719.88	1	0.880	33.263546	94.5	bb
5 SS-PFDA-13C2	11.34	734609.13	1	0.880	32.686058	92.9	dd
6 SS-NEtFOSAA-d5	11.84	285166.56	3	0.880	123.076264	87.4	dd
7 SS-HFPO-DA-13C3	8.38	28255.73	1	0.880	32.546855	92.5	bb
8 PFBS	6.68	9236.99	2	0.880	1.850223		db
9 PFHxA	7.97	49840.77	1	0.880	2.554767		bb
10 HFPO-DA/GenX	8.38	75.71	1	0.880	0.085212		bb
11 PFHpA	9.18	28897.00	1	0.880	1.207474		bb
12 PFHxS	9.28	4060.38	2	0.880	1.206907		bd
13 ADONA	9.32	952.23	1	0.880	0.029444		bb
14 PFOA	10.04	82373.35	1	0.880	2.709271		bb
15 PFOS	10.75	4875.19	2	0.880	2.126344		bb
16 PFNA	10.74	17039.07	1	0.880	0.576475		bb
17 9CI-PF3ONS/F-53B major	11.06	157.92	2	0.880	0.006537		bb
18 PFDA	11.34	4246.16	1	0.880	0.177557		bb
19 NMeFOSAA	11.61	159.41	3	0.880	0.075250		bd
20 PFUnA	11.86	1563,30	1	0.880	0.075718		bd
21 NEtFOSAA	11.84	290,64	3	0.880	0.161422		dd
22 11Cl-PF3OUdS/F-53B minor	12.08	132.16	2	0.880	0.007894		bd
23 PFDoA	12.31	505.54	1	0.880	0.028255		dd
24 PFTrDA	12.71	91.38	1	0.880	0.006868		dd
25 PFTeDA			1	0.880			

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#### Name: 4496378, Date: 07-Dec-2019, Time: 03:16:45, ID: 4496378, Description:

# Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags Mod.Comment Mod.Date Mod.Time
1 IS-PFOA-13C2	10.04	1017967.88		0.880	37,332267	106.1	bb
2 IS-PFOS-13C4	10.74	330727.69		0.880	109.816065	104.0	bb
3 IS-NMeFOSAA-d3	11.59	352143.75		0.880	143.078593	101.6	bd
4 SS-PFHxA-13C2	7.97	634125.63	1	0.880	32.960094	93.6	bd
5 SS-PFDA-13C2	11.34	706301.50	1	0.880	32.102040	91.2	dd
6 SS-NEtFOSAA-d5	11.84	279364.31	3	0.880	122.900081	87.3	dd
7 SS-HFPO-DA-13C3	8.38	27603.94	1	0.880	32.479538	92.3	bd
8 PFBS	6.68	37550.50	2	0.880	7.650769		bb
9 PFHxA	7.97	164557.42	1	0.880	8.616289		bb
10 HFPO-DA/GenX	8.38	107.47	1	0.880	0.123561		db
11 PFHpA	9.18	141703.91	1	0.880	6.048435		bb
12 PFHxS	9.28	18126.19	2	0.880	5.480359		bd
13 ADONA	9.33	348.63	1	0.880	0.011012		bb
14 PFOA	10.04	430635.34	1	0.880	14.468103		bb
15 PFOS	10.75	9349.95	2	0.880	4.148071		bb
16 PFNA	10.73	52584.57	1	0.880	1.817312		bb
17 9CI-PF3ONS/F-53B major	11.07	153.20	2	0.880	0.006450		bb
18 PFDA	11.34	5540.21	1	0.880	0.236648		bb
19 NMeFOSAA	11.59	116.87	3	0.880	0.056235		bb
20 PFUnA	11.86	1677.08	1	0.880	0.082975		bb
21 NEtFOSAA	11.85	184.78	3	0.880	0.104606		dd
22 11CI-PF3OUdS/F-53B minor	12.07	166.32	2	0.880	0.010105		bd
23 PFDoA	12.31	545.99	1	0.880	0.031172		bb
24 PFTrDA	12.72	198.72	1	0.880	0.015258		dd
25 PFTeDA			1	0.880			

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Name: 4496380, Date: 07-Dec-2019, Time: 03:33:49, ID: 4496380, Description:

# Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags: Mod.Comment: Mod.Date ::: Mod.Time
1 IS-PFOA-13C2	10.04	994898.06	. , . 2024, 11, 11, 11, 11	0.860	35.656988	103.7	bb
2 IS-PFOS-13C4	10.74	325400.47		0.860	105.591577	102.3	bd
3 IS-NMeFOSAA-d3	11,58	345351.19		0.860	137.129663	99.7	dd
4 SS-PFHxA-13C2	7.97	638695.38	1	0.860	33.195421	96.5	bb
5 \$S-PFDA-13C2	11.34	695225.25	1	0.860	31,596524	91.9	dd
6 SS-NEtFOSAA-d5	11.84	270081.19	3	0.860	118.399642	86.0	dd
7 SS-HFPO-DA-13C3	8.37	28002.31	1	0.860	32.946097	95.8	bd
8 PFBS	6.68	30770.17	2	0.860	6.227122		bb
9 PFHxA	7.97	166253.61	1	0.860	8.704526		bb
10 HFPO-DA/GenX	8.38	80.52	1	0.860	0.092569		db
11 PFHpA	9.18	91330.83	1	0.860	3.898072		bd
12 PFHxS	9.28	19175.10	2	0.860	5.758486		bb
13 ADONA	9.32	334.86	1	0.860	0.010576		bb
14 PFOA	10.04	272543.13	1	0.860	9.156055		bb
15 PFOS	10.74	13235.27	2	0.860	5.832271		bb
16 PFNA	10.73	33083.56	1	0.860	1.143285		bb
17 9CI-PF3ONS/F-53B major	11.06	72,17	2	0.860	0.003018		bb
18 PFDA	11.34	6697.56	1	0.860	0.286065		bb
19 NMeFOSAA	11.59	207.69	3	0.860	0.099587		bb
20 PFUnA	11.85	1002.33	1	0.860	0.049588		bb
21 NEtFOSAA	11.84	109.87	3	0.860	0.061981		bb
22 11CI-PF3OUdS/F-53B minor	12.07	183.99	2	0.860	0.011104		bb
23 PFDoA	12.31	608.20	1	0.860	0.034721		bd
24 PFTrDA	12.71	69.30	1	0.860	0.005321		dd
25 PFTeDA	13.04	206.31	1	0.860	0.017865		bd

Quantify Sample Summary Report PFAS by ESI/LC/MS/MS

MassLynx 4.1 SCN810

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Last Altered: Printed: Thursday, December 12, 2019 09:52:46 Eastern Standard Time Thursday, December 12, 2019 09:53:03 Eastern Standard Time

Name: 4496382, Date: 07-Dec-2019, Time: 03:50:48, ID: 4496382, Description:

# Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags Mod Comment Mod Date Mod Tim
1 IS-PFOA-13C2	10.04	1039978.38		0.850	36.839256	108.4	bd
2 IS-PFOS-13C4	10.74	339274.66		0.850	108.813554	106,7	bb
3 IS-NMeFOSAA-d3	11.58	360220,41		0.850	141.370645	103.9	dd
4 SS-PFHxA-13C2	7.97	656205.75	1	0.850	32.247733	94.8	bd
5 SS-PFDA-13C2	11.33	700528.75	1	0.850	30.103326	88.5	dd
6 SS-NEtFOSAA-d5	11.84	277494.78	3	0.850	115.272043	84.8	dd
7 SS-HFPO-DA-13C3	8.38	29096.94	1	0.850	32.369208	95.2	bd
8 PFBS	6.68	26899.25	2	0.850	5.160418		bb
9 PFHxA	7.97	384632.56	1	0.850	19.041223		bb
10 HFPO-DA/GenX	8.38	86.92	1	0.850	0.094481		bb
11 PFHpA	9.18	95700.05	1	0.850	3.862064		bb
12 PFHxS	9.28	10438.15	2	0.850	2.971538		bb
13 ADONA	9.32	459.15	1	0.850	0.013712		bb
14 PFOA	10.04	276007.88	1	0.850	8.767372		bb
15 PFOS	10.74	12364.00	2	0.850	5.164771		bb
16 PFNA	10.73	55483.69	1	0.850	1.812936		bd
17 9Cl-PF3ONS/F-53B major			2	0,850			
18 PFDA	11.34	11598.62	1	0.850	0.468414		bb
19 NMeFOSAA	11.59	413.64	3	0.850	0.187936		bb
20 PFUnA	11.85	1854.91	1	0.850	0.086769		bb
21 NEtFOSAA	11.84	172.81	3	0.850	0.092377		bb
22 11CI-PF3OUdS/F-53B minor	12.07	95.33	2	0.850	0.005454		dd
23 PFDoA			1	0.850			
24 PFTrDA	12.71	153,82	1	0.850	0.011167		dd
25 PFTeDA	13.04	21.28	1	0.850	0.001742		bb

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Name: CCM-100-A3, Date: 07-Dec-2019, Time: 04:07:51, ID: 4504302, Description:

# Name REPERT BOSINS NO.	RT	Area	IS#	Factor1	ng/L	%Rec	Flags Mod Comment Mod Date Mod Time
1 IS-PFOA-13C2	10.03	917583.31		1.000	38.239581	95.6	bb
2 IS-PFOS-13C4	10.74	296534.47		1,000	111.889114	93.2	bd
3 IS-NMeFOSAA-d3	11.58	319696.94		1,000	147.608198	92.3	dd
4 SS-PFHxA-13C2	7.97	575817.13	1	1.000	37.731460	94.3	bd
5 SS-PFDA-13C2	11.33	684041.88	1	1.000	39.195038	98.0	db
6 SS-NEtFOSAA-d5	11.84	280010.16	3	1.000	154.189167	96.4	dd
7 SS-HFPO-DA-13C3	8.38	25615.11	1	1.000	37.996258	95.0	bd
8 PFBS	6.68	364313.44	2	1.000	94-075643	94.1	bb
9 PFHxA	7.97	1427107.13	1	1.000	94.203110	94.2	bb
10 HFPO-DA/GenX	8.38	66116.74	7	1.000	95.828664	95.8	bb
11 PFHpA	9.18	1800821.13	1	1.000	96.903104	96.9	bb
12 PFHxS	9.28	251800.94	2	1.000	96.487817	96.5	dd
13 ADONA	9.32	2468227.75	1	1.000	98.282171	98.3	bb
14 PFOA	10.03	2303819.75	1	1.000	97.578988	97.6	bb
15 PFOS	10.74	172286.86	2	1.000	96.872756	96.9	bd
16 PFNA	10.73	2229416.25	1	1.000	97.133297	97.1	bb
17 9CI-PF3ONS/F-53B major	11.07	1844930.00	2	1.000	98.445110	98.4	bb
18 PFDA	11.33	1801319.88	1	1.000	97.000477	97.0	bb
19 NMeFOSAA	11.59	161353.13	3	1.000	97.180392	97.2	bb
20 PFUnA	11.85	1529371.63	1	1.000	95,392220	95.4	bb
21 NEtFOSAA	11.84	136261.53	3	1.000	96.556497	96.6	bb
22 11CI-PF3OUdS/F-53B minor	12.07	1261885.50	2	1.000	97.169082	97.2	bb
23 PFDoA	12.31	1327687.88	1	1.000	95.561018	95.6	bb
24 PFTrDA	12.70	983234.38	1	1.000	95.175201	95.2	bb
25 PFTeDA	13.05	877117.25	1	1.000	95.757580	95.8	bb

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Name: 4496384, Date: 07-Dec-2019, Time: 04:24:54, ID: 4496384, Description:

# Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags	Mod Comment Mod Date Mod Tim
1 IS-PFOA-13C2	10.03	974251.75	p	0.860	34.917027	101.5	bb	
2 IS-PFOS-13C4	10.74	315260.91		0.860	102.301316	99.1	bd	
3 IS-NMeFOSAA-d3	11.58	336783.75		0.860	133.727764	97.2	dd	
4 SS-PFHxA-13C2	7.97	603751.75	- 1	0.860	32.044257	93.2	bb	
5 SS-PFDA-13C2	11.33	677041.13	1	0.860	31.422173	91.3	dd	
6 SS-NEtFOSAA-d5	11.84	259734.33	3	0.860	116.760308	84.9	dd	
7 SS-HFPO-DA-13C3	8.38	26475.85	1	0.860	31.810271	92.5	bd	
8 PFBS	6.68	17578.17	2	0.860	3.671802		bb	
9 PFHxA	7.97	116477.61	1	0.860	6.227645		bb	
10 HFPO-DA/GenX	8.38	58.32	1	0.860	0.068467		bb	
11 PFHpA	9.18	58108.06	1	0.860	2.532656		bb	
12 PFHxS	9.28	5430.25	2	0.860	1.683211		bb	
13 ADONA	9.32	318.68	1	0.860	0.010278		bb	
14 PFOA	10.03	163102.81	1	0.860	5.595540		bb	
15 PFOS	10.74	6128.93	2	0.860	2.787645		bb	
16 PFNA	10.73	30340.31	1	0.860	1.070705		bb	
17 9CI-PF3ONS/F-53B major	11.07	1091.12	2	0.860	0.047097		bb	
18 PFDA	11.33	5136.48	1	0.860	0.224038		bb	
19 NMeFOSAA	11.58	316.27	3	0.860	0.155507		bb	
20 PFUnA	11.85	1011.50	1	0.860	0.051102		bb	
21 NEIFOSAA	11.84	271.54	3	0.860	0.157080		bb	
22 11Cl-PF3OUdS/F-53B minor	12.07	1002.52	2	0.860	0.062446		bd	
23 PFDoA	12.31	914.10	1	0.860	0.053291		bb	
24 PFTrDA			1	0.860				
25 PFTeDA	13.05	240.90	1	0.860	0.021302		db	

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Name: 4496386, Date: 07-Dec-2019, Time: 04:41:57, ID: 4496386, Description:

# Name	III RTI	Area	IS#	Factor1	ng/L	-%Rec	Flags Mod Comment Mod Date Mod Time
1 IS-PFOA-13C2	10.04	911738.00		0.860	32,676544	95.0	bb
2 IS-PFOS-13C4	10.75	299533.22		0.860	97.197724	94.2	bb
3 IS-NMeFOSAA-d3	11.59	317738.41		0.860	126.165370	91.7	dd
4 SS-PFHxA-13C2	7.98	586699.81	1	0.860	33.274297	96.7	dd
5 SS-PFDA-13C2	11.34	656254,75	1	0.860	32.545786	94.6	db
6 SS-NEtFOSAA-d5	11.84	260080.70	3	0.860	123.924001	90.1	dd
7 SS-HFPO-DA-13C3	8.38	25639.01	1	0.860	32.916967	95.7	bb
8 PFBS	6.69	15557.06	2	0.860	3.420253		bb
9 PFHxA	7.98	84400.10	1	0.860	4.821982		bb
10 HFPO-DA/GenX	8.39	40.03	- 1	0.860	0.050222		bb
11 PFHpA	9.19	49578.95	1	0.860	2.309076		bb
12 PFHxS	9.29	3982.05	2	0.860	1.299125		bb
13 ADONA	9.33	103.16	1	0.860	0.003555		bd
14 PFOA	10.04	131006.37	1	0.860	4.802575		bb
15 PFOS	10.75	4441.86	2	0.860	2.126391		bb
16 PFNA	10.73	25343.19	1	0.860	0.955679		bb
17 9CI-PF3ONS/F-53B major	10.98	7.04	2	0.860	0.000320		bb
18 PFDA	11.34	3898.58	1	0.860	0.181703		bb
19 NMeFOSAA	11.61	194.89	3	0.860	0.101570		bb
20 PFUnA	11.87	843.51	1	0.860	0.045537		bd
21 NEtFOSAA	11,85	58.43	3	0.860	0.035827		bb
22 11CI-PF3OUdS/F-53B minor	12.09	291.14	2	0.860	0.019087		bb
23 PFDoA	12.32	406.16	1	0.860	0.025302		bb
24 PFTrDA			1	0.860			
25 PFTeDA	13.06	38.10	1	0.860	0.003600		bb

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Name: 4498887, Date: 07-Dec-2019, Time: 04:59:01, ID: 4498887, Description:

# Name - State of the control of the	RT	Area	IS#	Factor1	ng/L	%Rec	Flags Mod.Comment Mod Date Mod.Time
1 IS-PFOA-13C2	10.05	955396.06	.margtoneres	0.910	36.232012	99.5	bb
2 IS-PFOS-13C4	10.75	311955.50		0.910	107.114112	98.1	bb
3 IS-NMeFOSAA-d3	11.59	334965.75		0.910	140.738785	96.7	bb
4 SS-PFHxA-13C2	7.98	586344.81	đ	0.910	33.579605	92.3	bd
5 SS-PFDA-13C2	11.34	668236.38	4	0.910	33.464317	91.9	bd
6 SS-NEtFOSAA-d5	11.84	247621.55	3	0.910	118.426250	81.3	dd
7 SS-HFPO-DA-13C3	8.38	25953.13	1	0.910	33.646351	92.4	bb
8 PFBS	6.69	7943.01	2	0.910	1.774235		db
9 PFHxA	7.98	10960.92	1	0.910	0.632352		bb
10 HFPO-DA/GenX	8,41	6.28	1	0.910	0.007958		bb
11 PFHpA	9.18	13570.71	1	0.910	0.638224		bb
12 PFHxS	9.29	1965.00	2	0.910	0.651331		bb
13 ADONA	9.33	260.59	1	0.910	0.009069		bb
14 PFOA	10.05	57117.98	1	0.910	2.114385		bb
15 PFOS	10.75	272.90	2	0.910	0.132730		bb
16 PFNA	10.74	422.21	1	0.910	0.016077		dd
17 9CI-PF3ONS/F-53B major			2	0.910			
18 PFDA	11.34	226.92	1	0.910	0.010680		db
19 NMeFOSAA	11.61	63.64	3	0.910	0.033288		bb
20 PFUnA	11.91	300.77	1	0.910	0.016396		db
21 NEIFOSAA	11.85	71.81	3	0.910	0.044192		bd
22 11Cl-PF3OUdS/F-53B minor	12.09	119.22	2	0.910	0.007941		bd
23 PFDoA			1	0.910			
24 PFTrDA	12.71	86.43	1	0.910	0.007312		dd
25 PFTeDA	13.07	21.86	1	0.910	0.002085		bb

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Name: 4498067, Date: 07-Dec-2019, Time: 05:16:04, ID: 4498067, Description:

# Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags Mod Comment Mod Date Mod Time
1 IS-PFOA-13C2	10.04	982363.81	an alternate at	0.950	38.892295	102.3	bb
2 IS-PFOS-13C4	10.75	318962.97		0.950	114.334296	100.3	bb
3 IS-NMeFOSAA-d3	11.59	340270.53		0.950	149.251927	98.2	dd
4 SS-PFHxA-13C2	7.98	600101.50	1	0.950	34.893176	91.8	bd
5 SS-PFDA-13C2	11.34	702332.13	1	0.950	35.709822	94.0	dd
6 SS-NEtFOSAA-d5	11.84	257439.02	3	0.950	126.529616	83.2	db
7 SS-HFPO-DA-13C3	8.38	25947.42	1	0.950	34.153538	89.9	bd
8 PFBS			2	0.950			
9 PFHxA	7.98	3446.31	1	0.950	0.201864		bb
10 HFPO-DA/GenX			1	0.950			
11 PFHpA	9.18	7891.43	1	0.950	0.376808		bb
12 PFHxS	9.28	6.99	2	0.950	0.002365		dd
13 ADONA	9.33	210.97	1	0.950	0.007454		bb
14 PFOA	10.04	129370.79	1	0.950	4.862289		bb
15 PFOS	10.75	248.13	2	0.950	0.123220		bb
16 PFNA			1	0.950			
17 9CI-PF3ONS/F-53B major	11.08	266.66	2	0.950	0.012567		bd
18 PFDA	11.35	564.26	1	0.950	0.026962		bb
19 NMeFOSAA	11.60	58.15	3	0.950	0.031258		bd
20 PFUnA	11.88	740.02	1	0.950	0.040958		bd
21 NEtFOSAA			3	0.950			
22 11CI-PF3OUdS/F-53B minor	12.07	175.19	2	0.950	0.011914		bb
23 PFDoA	12.31	285.91	1	0.950	0.018260		bd
24 PFTrDA	12.77	46.97	1	0.950	0.004034		bb
25 PFTeDA	13.06	302.84	1	0.950	0.029338		dd

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Name: 4498068-PB, Date: 07-Dec-2019, Time: 05:33:03, ID: 4498068, Description:

# Name	RTO	Area	IS#	Factor1	ng/L	%Rec	Flags Mod.Comment Mod.Date Mod.Time
1 IS-PFOA-13C2	10.03	932758.31	212 4 51 110000	0.960	37.317108	97.2	bb
2 IS-PFOS-13C4	10.74	304286.66		0.960	110.221621	95.7	bb
3 IS-NMeFOSAA-d3	11.58	323927.34		0.960	143.578974	93.5	dd
4 SS-PFHxA-13C2	7.98	609463.94	1	0.960	37.715048	98.2	bd
5 SS-PFDA-13C2	11.34	720124.81	1	0.960	38.967612	101.5	dd
6 SS-NEtFOSAA-d5	11.84	271966.63	3	0.960	141.891961	92.4	db
7 SS-HFPO-DA-13C3	8.38	26764.11	1	0.960	37.492565	97.6	bd
8 PFBS			2	0.960			
9 PFHxA	7.98	985.78	1	0.960	0.061452		bd
10 HFPO-DA/GenX	8.37	4.00	1	0.960	0.005478		bd
11 PFHpA	9.19	275.67	1	0.960	0.014009		bb
12 PFHxS	9.28	5.89	2	0.960	0.002112		bb
13 ADONA	9.32	225.96	1	0.960	0.008497		bb
14 PFOA	10.03	1228.78	1	0.960	0.049150		bb
15 PFOS	10.74	214.98	2	0.960	0.113088		bb
16 PFNA	10.74	380.78	1	0.960	0.015667		db
17 9CI-PF3ONS/F-53B major	11.07	192.86	2	0.960	0.009627		bb
18 PFDA	11.33	470.26	1	0.960	0.023915		dd
19 NMeFOSAA	11.59	77.04	3	0.960	0.043965		bb
20 PFUnA	11,88	444.31	1	0.960	0.026172		bd
21 NEIFOSAA	11.85	155.31	3	0.960	0.104274		bb
22 11CI-PF3OUdS/F-53B minor	12.08	97.40	2	0.960	0.007017		db
23 PFDoA			1	0.960			
24 PFTrDA	12.71	138.43	1	0.960	0.012654		dd
25 PFTeDA	13.06	41.38	1	0.960	0.004266		dd

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Name: 4501675, Date: 07-Dec-2019, Time: 05:50:06, ID: 4501675, Description:

# Name	RT	Area	IS#	Factor1	in ng/L	%Rec	Flags Mod Comment Mod Date Mod Tim
1 IS-PFOA-13C2	10.04	983542.25		0.900	36.889532	102.5	bb
2 IS-PFOS-13C4	10.75	319536.78		0.900	108,511562	100.5	bb
3 IS-NMeFOSAA-d3	11.59	337027.59		0.900	140.048987	97.3	dd
4 SS-PFHxA-13C2	7.97	604370.94	1	0.900	33.251987	92.4	bd
5 SS-PFDA-13C2	11.34	699093.81	1	0.900	33.634026	93.4	dd
6 SS-NEtFOSAA-d5	11.84	259129.08	3	0.900	121.818081	84.6	dd
7 SS-HFPO-DA-13C3	8.38	26622.92	1	0.900	33.158533	92.1	bd
8 PFBS	6.69	61.68	2	0.900	0.013302		bb
9 PFHxA	7.98	847.97	1	0.900	0.046999		bd
10 HFPO-DA/GenX	8.40	5.49	1	0.900	0.006680		bb
11 PFHpA	9.19	192.31	1	0.900	0.008689		dd
12 PFHxS	9.26	1,63	2	0.900	0.000523		dd
13 ADONA	9.34	153.38	1	0.900	0.005128		bb
14 PFOA	10.04	1321.11	1	0.900	0.046983		bb
15 PFOS	10.75	226.64	2	0.900	0.106434		bb
16 PFNA			1	0.900			
17 9CI-PF3ONS/F-53B major	11.02	11.02	2	0.900	0.000491		bb
18 PFDA			1	0.900			
19 NMeFOSAA	11.60	65.24	3	0.900	0.033544		bb
20 PFUnA	11.84	412.63	1	0.900	0.021610		bd
21 NEtFOSAA	11.85	129.94	3	0.900	0.078610		bb
22 11CI-PF3OUdS/F-53B minor	12.08	180.57	2	0.900	0.011613		bb
23 PFDoA			1	0.900			
24 PFTrDA	12.70	37.42	1	0.900	0.003042		dd
25 PFTeDA	13.06	27.46	1	0.900	0.002517		dd

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#### Name: 4501676, Date: 07-Dec-2019, Time: 06:07:10, ID: 4501676, Description:

# Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags: Mod.Comment Mod.Date Mod.Time
1 IS-PFOA-13C2	10.04	961135.31	2 11 12 1 12 8 7 8 10 10	0.880	35.248028	100.1	bb
2 IS-PFOS-13C4	10.74	311361.69		0.880	103.385706	97,9	bd
3 IS-NMeFOSAA-d3	11.58	332395.25		0.880	135.054632	95.9	dd
4 SS-PFHxA-13C2	7.97	602265.81	1	0.880	33.155142	94.2	bb
5 SS-PFDA-13C2	11.33	681261.69	1	0.880	32.794877	93.2	dd
6 SS-NEtFOSAA-d5	11.84	253727.33	3	0.880	118.253408	84.0	db
7 SS-HFPO-DA-13C3	8.38	26254.70	1	0.880	32.718650	93.0	dd
8 PFBS	6.69	86.09	2	0.880	0.018632		bb
9 PFHxA	7.97	861.48	1	0.880	0.047775		bb
10 HFPO-DA/GenX	8.37	9.59	1	0.880	0.011680		bb
11 PFHpA	9.18	121.99	1	0.880	0.005515		bb
12 PFHxS	9.28	8.57	2	0.880	0.002752		bd
13 ADONA	9.33	464.24	1	0.880	0.015530		bb
14 PFOA	10.04	1616.86	1	0.880	0.057534		bb
15 PFOS	10.75	216.59	2	0.880	0.102064		bb
16 PFNA			1	0.880			
17 9CI-PF3ONS/F-53B major	11.02	165.84	2	0.880	0.007416		bb
18 PFDA	11.32	266.03	1	0.880	0.012035		bb
19 NMeFOSAA	11.62	60.81	3	0.880	0.031000		bb
20 PFUnA	11.87	203.75	4	0.880	0.010677		dd
21 NEtFOSAA	11.83	12.77	3	0.880	0.007659		bd
22 11CI-PF3OUdS/F-53B minor	12.07	78.67	2	0.880	0.005077		bb
23 PFDoA			1	0.880			
24 PFTrDA	12.71	64.25	1	0.880	0.005225		db
25 PFTeDA	13.07	15.07	1	0.880	0.001382		bb

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Name: 4501677, Date: 07-Dec-2019, Time: 06:24:12, ID: 4501677, Description:

# Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags: Mod Comment: Mod Date Mod Time
1 IS-PFOA-13C2	10.04	1010252.38		0.890	37.470328	105.3	bb
2 IS-PFOS-13C4	10.75	329704.06		0.890	110.720224	103.7	bd
3 IS-NMeFOSAA-d3	11.58	350702.59		0.890	144.112279	101.2	dd
4 SS-PFHxA-13C2	7.97	631768.38	1	0.890	33.464362	94.0	bb
5 SS-PFDA-13C2	11.34	693713.44	1	0.890	32.131732	90.3	db
6 SS-NEtFOSAA-d5	11.84	262305.69	3	0.890	117.186421	82.3	dd
7 SS-HFPO-DA-13C3	8.38	28158.86	1	0.890	33.764898	94.8	bd
8 PFBS	6.69	16.93	2	0.890	0.003500		bb
9 PFHxA	7.97	909.46	1	0.890	0.048529		bb
10 HFPO-DA/GenX	8.38	1.60	1	0.890	0.001869		bb
11 PFHpA	9.18	145.08	1	0.890	0.006311		bd
12 PFHxS	9.28	16.12	2	0.890	0.004945		bd
13 ADONA	9.32	319.86	1	0.890	0.010296		bb
14 PFOA	10.04	1735.70	1	0.890	0.059428		bb
15 PFOS	10.75	248.14	2	0.890	0.111683		bb
16 PFNA	10.74	332.15	1	0.890	0.011698		db
17 9CI-PF3ONS/F-53B major	10.99	18.05	2	0.890	0.000771		bb
18 PFDA	11.34	238.61	1	0.890	0.010387		dd
19 NMeFOSAA	11.58	61.18	3	0.890	0.029897		bb
20 PFUnA	11.86	212.63	1	0.890	0.010721		dd
21 NEtFOSAA	11.84	96.76	3	0.890	0.055630		bb
22 11CI-PF3OUdS/F-53B minor	12.07	361.46	2	0.890	0.022280		bb
23 PFDoA	12.31	385.80	1	0.890	0.022447		bd
24 PFTrDA			1	0.890			
25 PFTeDA	13.06	105.48	1	0.890	0.009309		dd

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Name: 4501678, Date: 07-Dec-2019, Time: 06:41:16, ID: 4501678, Description:

# Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags Mod Comment Mod Date Mod Time
1 IS-PFOA-13C2	10.04	987596.44	STS IS EVE VOLET	0.850	34.983725	102.9	bd
2 IS-PFOS-13C4	10,74	322693.81		0.850	103.495678	101.5	bb
3 IS-NMeFOSAA-d3	11.58	343078.56		0.850	134.643227	99.0	bd
4 SS-PFHxA-13C2	7.97	593979.94	1	0.850	30.738009	90.4	bb
5 SS-PFDA-13C2	11.33	669407.31	1	0.850	30.291709	89.1	dd
6 SS-NEtFOSAA-d5	11.84	246635.61	3	0.850	107.572108	79.1	db
7 SS-HFPO-DA-13C3	8,38	26072.04	1	0.850	30.542509	89.8	bď
8 PFBS			2	0.850			
9 PFHxA	7.97	878.39	1	0.850	0.045791		bb
10 HFPO-DA/GenX	8,40	1.75	1	0.850	0.002004		bb
11 PFHpA	9.18	243.70	1	0.850	0.010357		db
12 PFHxS	9.28	8.83	2	0.850	0.002644		bd
13 ADONA	9.32	541.11	1	0.850	0.017016		bb
14 PFOA	10.04	1935.76	1	0.850	0.064751		bb
15 PFOS	10.75	259.11	2	0.850	0.113799		bb
16 PFNA			1	0.850			
17 9CI-PF3ONS/F-53B major	11.01	38.68	2	0.850	0.001612		db
18 PFDA	11.34	555.89	1	0.850	0.023640		bb
19 NMeFOSAA	11.59	72.95	3	0.850	0.034800		db
20 PFUnA	11.91	176.71	1	0.850	0.008704		db
21 NEtFOSAA	11.83	97.47	3	0.850	0.054710		dd
22 11CI-PF3OUdS/F-53B minor	12.07	152.70	2	0.850	0.009185		bd
23 PFDoA	12.30	130.00	1	0.850	0.007389		bb
24 PFTrDA	12.70	84.84	1	0.850	0.006486		dd
25 PFTeDA	13.07	38.18	1	0.850	0.003292		bb

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Name: CCH-200-A3, Date: 07-Dec-2019, Time: 06:58:19, ID: 4504303, Description:

# Name	RT	Area	IS#	Factor1	ng/L	%Rec	Flags Mod Comment Mod Date Mod.Time
1 IS-PFOA-13C2	10.04	992884.75		1.000	41.377710	103.4	bb
2 IS-PFOS-13C4	10.75	324504.34		1.000	122,442776	102.0	bd
3 IS-NMeFOSAA-d3	11.59	346611.72		1.000	160.035100	100.0	dd
4 SS-PFHxA-13C2	7.97	658162.50	1	1,000	39.856471	99.6	bd
5 SS-PFDA-13C2	11.34	801047.25	1	1.000	42.418294	106.0	db
6 SS-NEtFOSAA-d5	11.84	323035.19	3	1.000	164.068477	102.5	dd
7 SS-HFPO-DA-13C3	8.38	30547.56	1	1.000	41.876253	104.7	bd
8 PFBS	6.69	803877.50	2	1.000	189.690920	94.8	bb
9 PFHxA	7.97	3185368.00	1	1.000	194.318857	97.2	bb
10 HFPO-DA/GenX	8.38	147600.25	1	1.000	197.705044	98.9	bb
11 PFHpA	9.18	4020172.00	1	1.000	199.920999	100.0	bb
12 PFHxS	9.28	560172.13	2	1,000	196.151349	98.1	bb
13 ADONA	9.33	5452092.00	1	1.000	200.631608	100.3	bb
14 PFOA	10.04	5090555.00	1	1.000	199.259765	99.6	bb
15 PFOS	10.75	386984.94	2	1,000	198.837471	99.4	bb
16 PFNA	10.74	4945734.50	1	1.000	199.138133	99.6	bb
17 9CI-PF3ONS/F-53B major	11.07	4120021,00	2	1.000	200.894643	100.4	bb
18 PFDA	11.34	4028093.50	1	1.000	200.460698	100.2	bb
19 NMeFOSAA	11.59	356456.53	3	1.000	198.017273	99.0	bb
20 PFUnA	11.85	3422105.00	1	1.000	197.260407	98.6	bb
21 NEtFOSAA	11.84	302456.91	3	1.000	197.681931	98.8	bb
22 11Cl-PF3OUdS/F-53B minor	12.07	2787752.00	2	1.000	196.162937	98.1	bb
23 PFDoA	12.31	2963199.50	1	1.000	197.102593	98.6	bb
24 PFTrDA	12.70	2169103.25	1	1.000	194.041062	97.0	bb
25 PFTeDA	13.05	1925649.00	1	1.000	194.285014	97.1	bb

**QA - Method Detection Limit Study** 

537.1	Analyzed by:	J. Whitaker, C. McCarty	Approved by:	Bruce Li	Effective Date:	3/18/2019
FL	Prepped by:	C. Grove, K. Riley	Comments:			
ng/L						
RW	Num	ber of months next study due:	13			
	-	Date Submittted:	3/16/2019			
	FL ng/L	FL Prepped by:	FL Prepped by: C. Grove, K. Riley  ng/L  RW Number of months next study due:	FL Prepped by: C. Grove, K. Riley Comments:	FL Prepped by: C. Grove, K. Riley Comments:  ng/L  RW Number of months next study due: 13	FL Prepped by: C. Grove, K. Riley Comments:  ng/L  RW Number of months next study due: 13

Earliest Analysis date	Parameter	# of Pts	df	t(n-1,1-α=0.99)	mean	sd	Calculated MDL <sub>S</sub>	MDL <sub>b</sub>	New Instrument MDL	Old / Current LOD
2/18/2019	Perfluorobutanesulfonic acid (PF	7	6	3.1426	1.848425714	0.053238234	0.167306473	0.007374	0.167306473	#N/A
2/18/2019	Perfluorohexanoic acid (PFHxA)	7	6	3.1426	1.925038571	0.047600436	0.14958913	0.038759	0.14958913	#N/A
2/18/2019	HFPO-DA/GenX	7	6	3.1426	1.83422	0.045779516	0.143866706	0.01231	0.143866706	#N/A
2/18/2019	Perfluoroheptanoic acid (PFHpA)	7	6	3.1426	1.888608571	0.046874074	0.147306466	0.0147455	0.147306466	#N/A
2/18/2019	Perfluorohexanesulfonic acid (PF	7	6	3.1426	1.885541429	0.068245182	0.214467308	0.010671	0.214467308	#N/A
2/18/2019	ADONA	7	6	3.1426	1.938588571	0.0576642	0.181215515	0.0559535	0.181215515	#N/A
<del>-2</del> /18/2019	Perfluorooctanoic acid (PFOA)	7	6	3.1426	1.980441429	0.097167678	0.305359145	0.045748	0.305359145	#N/A
<b>%</b> /18/2019	Perfluorooctanesulfonic acid (PF	7	6	3.1426	1.926631429	0.040733786	0.128009997	0.067862	0.128009997	#N/A
<b>♂</b> /18/2019	Perfluorononanoic acid (PFNA)	7	6	3.1426	1.961685714	0.057107672	0.179466571	0.0183695	0.179466571	#N/A
द्धे/18/2019	9CI-PF3ONS/F-53B major	7	6	3.1426	1.817501429	0.062818321	0.197412856	0.0361335	0.197412856	#N/A
<del>2</del> /18/2019	Perfluorodecanoic acid (PFDA)	7	6	3.1426	1.883302857	0.063258557	0.19879634	0.032352	0.19879634	#N/A
2/18/2019	N-methyl Perfluorooctanesulfon	7	6	3.1426	1.756514286	0.047191801	0.148304953	0.0871125	0.148304953	#N/A
2/18/2019	Perfluoroundecanoic acid (PFUn	7	6	3.1426	1.817552857	0.075106404	0.236029386	0.0321665	0.236029386	#N/A
2/18/2019	N-ethyl Perfluorooctanesulfonan	7	6	3.1426	1.806128571	0.087619494	0.275353023	0.131789	0.275353023	#N/A
2/18/2019	11CI-PF3OUdS/F-53B minor	7	6	3.1426	1.730118571	0.068897928	0.21651863	0.0620445	0.21651863	#N/A
2/18/2019	Perfluorododecanoic acid (PFDo/	7	6	3.1426	1.770634286	0.079627011	0.250235846	0.049398	0.250235846	#N/A
2/18/2019	Perfluorotridecanoic acid (PFTrD	7	6	3.1426	1.734824286	0.088340333	0.27761833	0.066862	0.27761833	#N/A
2/18/2019	Perfluorotetradecanoic acid (PFT	7	6	3.1426	1.75036	0.100042	0.31439199	0.0641	0.31439199	#N/A

# Shipping and Receiving Documents

JECT NAME	PROJECT NO.		MATRI	X TYPE		7.	REQU	JIRED ANALYSE	7-1	PAGE / OF /
JECT LOCATION  JECT MANAGER  (TICENCE  ITIONAL INFORMATIO	PHONE 66 -446-695.	AQUEOUS (WATER)	SOLID/SEMI-SOLID	AIR	NONAQUEOUS LIQUID	PES 2374				STD TAT RUSH TAT DATE DUE
DAMPI C		DUEOL	OLID/S		NAGUE	- Brot	PF	RESERVATIVE		REMARKS
SAMPLE ATE TIME	SAMPLE IDENTIFICATION	AC	Ø		NON	(1.0	NUMBER OF C	CONTAINERS S	DRAITTED	REMARKS
	504						NOMBEROIC	JON IAINENS S	J. J	
	=6-19-10-0W- 6504	X				2				
1	himblewood time Not									
1-17 17:05 NE	619-10-DW - 4/238					Z				
	7 M.L. RUNG (2	1 X						- 100000000		
1-17:06 N	FG-19-10-DW-4230	1 -1				Z		-		Hill mini
419 17:25 N	7 m 1- 12 NE (D) EG-19-10-DW-4360	17				Z	+			
71111.93	7 m. ERINE (I)	X					+	_240-12280	6 Chain of Custody	
4-17301	EG-19-10-DW-QCFB	-027	0			1		11		
		1								
NOUISHED BY DA	TE TIME RELINQUISHED BY	DATE		TIME		RELINQUISHED	BY DATE	TIME	METHOD OF SHIP	PMENT/BILL OF LADING

Eurofins TestAmerica Canton Sample Receipt Form/Narrative	Login # :
Canton Facility	Cooler_unpacked_by:
Client + C9/7 Site Name	MAN I A
Cooler Received on 1/-23-19 Opened on 1/-23-19	- 1/1/1//
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica C	and the same of th
Receipt After-hours: Drop-off Date/Time Storage Lo	
	Other
	Other
COOLANT: Wet Ice Blue Ice Dry Ice Water None  1. Cooler temperature upon receipt See Multiple	Carlo Famo
	d Cooler Temp. 3-3 °C
	d Cooler Temp. °C
	/
Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity ———————————————————————————————————	Yes No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes No
-Were tamper/custody seals intact and uncompromised?	Yes No NA
Shippers' packing slip attached to the cooler(s)?	Yes No
Did custody papers accompany the sample(s)?	Yes, No
5. Were the custody papers relinquished & signed in the appropriate place?	Tests that are not
Was/were the person(s) who collected the samples clearly identified on the COC	checked for pri by
7. Did all bottles arrive in good condition (Unbroken)?	Yes No Receiving:
8. Could all bottle labels be reconciled with the COC?	Yes No VOAs
9. Were correct bottle(s) used for the test(s) indicated?	Yes No Oil and Grease
Sufficient quantity received to perform indicated analyses?	Ne No TOC
11. Are these work share samples?	Yes No
If yes, Questions 12-16 have been checked at the originating laboratory.	103 (10)
12. Were all preserved sample(s) at the correct pH upon receipt?	No NA pH Strip Lot# HC995364
13. Were VOAs on the COC?	Yes No
14. Were air bubbles >6 mm in any VOA vials? Larger than this.	Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	
16. Was a LL Hg or Me Hg trip blank present?	Yes No
Contacted PM Date by via	Verbal Voice Mail Other
Concerning	
- CIVITY OF CHOTODY A CLASS F DISCOPERATIONS	Samples processed by:
17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	
18. SAMPLE CONDITION	
Sample(s) were received after the recommer	nded holding time had expired.
Sample(s) were	e received in a broken container.
Sample(s) were received with bubble	e >6 mm in diameter. (Notify PM)
19. SAMPLE PRESERVATION	
Sample(s)	were further preserved in the laboratory.
Sample(s) Preservative(s) added/Lot number(s):	
VOA Sample Preservation - Date/Time VOAs Frozen:	

# **Environment Testing TestAmerica**

# ANALYTICAL REPORT

Eurofins TestAmerica, Canton 4101 Shuffel Street NW North Canton, OH 44720 Tel: (330)497-9396

Laboratory Job ID: 240-124607-1 Client Project/Site: NE Gravel 181258

For:

Fishbeck Thompson Carr & Huber Inc 1515 Arboretum Drive SE Grand Rapids, Michigan 49546

Attn: Dan Greene

Authorized for release by: 1/23/2020 7:32:43 PM

Kris Brooks, Project Manager II (330)966-9790

kris.brooks@testamericainc.com

.....LINKS

Review your project results through

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Have a Question?



Visit us at: www.testamericainc.com 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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# **Definitions/Glossary**

Client: Fishbeck Thompson Carr & Huber Inc Project/Site: NE Gravel 181258

Job ID: 240-124607-1

#### Qualifiers

	M	A	0
C	N	/	J

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
В	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

U	Indicates the analyte was analyzed for but not detected.	
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	
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)	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
PQL	Practical Quantitation Limit	
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)	

Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

Job ID: 240-124607-1

Laboratory: Eurofins TestAmerica, Canton

**Narrative** 

#### **CASE NARRATIVE**

Client: Fishbeck Thompson Carr & Huber Inc

Project: NE Gravel 181258

Report Number: 240-124607-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Eurofins TestAmerica, Canton attests to the validity of the laboratory data generated by Eurofins TestAmerica facilities reported herein. All analyses performed by Eurofins TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The SOP WS-OC-0025 Perfluorinated Hydrocarbons analysis was performed at the Eurofins TestAmerica Sacramento laboratory.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

#### RECEIPT

The samples were received on 1/7/2020 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0° C.

#### PERFLUORINATED HYDROCARBONS

Samples NEG-20-01-SW-SECLUDED LAKE (I) (240-124607-1), NEG-20-01-SW-CREEK 2 N(I) (240-124607-2), NEG-20-01-SW-HOLE 2 POND(I) (240-124607-3), NEG-20-01-SW-CREEK 1 N(I) (240-124607-4), NEG-20-01-SW-MINE POND(I) (240-124607-5) and NEG-20-01-SW-CEMETERY POND(I) (240-124607-6) were analyzed for Perfluorinated Hydrocarbons in accordance with SOP WS-OC-0025. The samples were prepared on 01/16/2020 and analyzed on 01/17/2020.

Perfluorohexanesulfonic acid (PFHxS) and Perfluorotetradecanoic acid (PFTeA) were detected in method blank MB 320-351088/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

HFPO-DA (GenX) exceeded the RPD limit for LCSD 320-351088/3-A. Refer to the QC report for details.

Eurofins TestAmerica, Canton 1/23/2020

Job ID: 240-124607-1

#### **Case Narrative**

Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

Job ID: 240-124607-1

#### Job ID: 240-124607-1 (Continued)

#### Laboratory: Eurofins TestAmerica, Canton (Continued)

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 320-351088 and analytical batch 320-351259 recovered outside control limits for HFPO-DA (GenX). The % recovery for the analyte in both the LCS and LCSD was within limits.

The following samples contain trizma: NEG-20-01-SW-SECLUDED LAKE (I) (240-124607-1), NEG-20-01-SW-CREEK 2 N(I) (240-124607-2), NEG-20-01-SW-HOLE 2 POND(I) (240-124607-3), NEG-20-01-SW-CREEK 1 N(I) (240-124607-4), NEG-20-01-SW-MINE POND(I) (240-124607-5) and NEG-20-01-SW-CEMETERY POND(I) (240-124607-6). Thus, the MB, LCS, and LCSD also contain trizma.

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

# **Method Summary**

Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

Job ID: 240-124607-1

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

Eurofins TestAmerica, Canton

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1/23/2020

# **Sample Summary**

Client: Fishbeck Thompson Carr & Huber Inc Project/Site: NE Gravel 181258

Job ID: 240-124607-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-124607-1	NEG-20-01-SW-SECLUDED LAKE (I)	Water	01/03/20 09:50	01/07/20 09:20	
240-124607-2	NEG-20-01-SW-CREEK 2 N(I)	Water	01/03/20 10:00	01/07/20 09:20	
240-124607-3	NEG-20-01-SW-HOLE 2 POND(I)	Water	01/03/20 10:10	01/07/20 09:20	
240-124607-4	NEG-20-01-SW-CREEK 1 N(I)	Water	01/03/20 10:15	01/07/20 09:20	
240-124607-5	NEG-20-01-SW-MINE POND(I)	Water	01/03/20 10:20	01/07/20 09:20	
240-124607-6	NEG-20-01-SW-CEMETERY POND(I)	Water	01/03/20 10:40	01/07/20 09:20	

Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

Client Sample ID: NEG-20-01-SW-SECLUDED LAKE (I)

Lab Sample ID: 240-124607-1

Job ID: 240-124607-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac I	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.4		2.0	0.34	ng/L	1	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.2	J	2.0	0.48	ng/L	1	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.3	J	2.0	0.57	ng/L	1	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.70	Ĵ	2.0	0.25	ng/L	1	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.4		2.0	0.83	ng/L	1	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.50	J	2.0	0.26	ng/L	1	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.9	J	2.0	0.20	ng/L	1	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.78	JB	2.0	0.17	ng/L	1	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.2		2.0	0.53	ng/L	1	537 (modified)	Total/NA

# Client Sample ID: NEG-20-01-SW-CREEK 2 N(I)

Lab Sample ID: 240-124607-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.5		1.9	0.33	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.76	J	1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.81	J	1.9	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.60	J	1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.9		1.9	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.27	J	1.9	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.8		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	2.0		1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.6	В	1.9	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.7		1.9	0.50	ng/L	1		537 (modified)	Total/NA

#### Client Sample ID: NEG-20-01-SW-HOLE 2 POND(I)

# Lab Sample ID: 240-124607-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.1		1.8	0.32	ng/L	1	Ŧ	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.8		1.8	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.7		1.8	0.53	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.4		1.8	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	10		1.8	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.47	J	1.8	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	9.6		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	5.8		1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	9.0	В	1.8	0.16	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	1.0	J	1.8	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	26		1.8	0.49	ng/L	1		537 (modified)	Total/NA

### Client Sample ID: NEG-20-01-SW-CREEK 1 N(I)

#### Lab Sample ID: 240-124607-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.4		1.9	0.34	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.5	J	1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.1		1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.81	J	1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.3		1.9	0.82	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.9		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid	1.7	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

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# **Detection Summary**

Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

Client Sample ID: NEG-20-01-SW-CREEK 1 N(I) (Continued)

Lab Sample ID: 240-124607-4

Job ID: 240-124607-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac I	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	3.3	В	1.9	0.16	ng/L	1	537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.23	J	1.9	0.18	ng/L	1	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.9		1.9	0.52	ng/L	1	537 (modified)	Total/NA

#### Client Sample ID: NEG-20-01-SW-MINE POND(I)

# Lab Sample ID: 240-124607-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.9		1.9	0.34	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.6	J	1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.2		1.9	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.1	J	1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.9		1.9	0.82	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.27	Ĵ	1.9	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	0.31	JB	1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.6		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	1.6	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.0	В	1.9	0.16	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.24	J	1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.7		1.9	0.52	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: NEG-20-01-SW-CEMETERY POND(I)

# Lab Sample ID: 240-124607-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	1.5	J	1.9	0.33	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.0	J	1.9	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.3	J	1.9	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.68	J	1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.5		1.9	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.9		1.9	0.19	ng/L	1		537 (modified)	Total/NA
Perfluoropentanesulfonic acid (PFPeS)	2.3		1.9	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.4	В	1.9	0.16	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.28	J	1.9	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	6.2		1.9	0.51	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

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# **Client Sample Results**

Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

Client Sample ID: NEG-20-01-SW-SECLUDED LAKE (I)

Lab Sample ID: 240-124607-1 Date Collected: 01/03/20 09:50 Matrix: Water

Date Received: 01/07/20 09:20

Method: 537 (modified) - Fluor Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.4		2.0	0.34	ng/L		01/16/20 06:11	01/17/20 01:38	1
Perfluoropentanoic acid (PFPeA)	1.2	J	2.0	0.48	ng/L		01/16/20 06:11	01/17/20 01:38	1
Perfluorohexanoic acid (PFHxA)	1.3	J	2.0	0.57	ng/L		01/16/20 06:11	01/17/20 01:38	1
Perfluoroheptanoic acid (PFHpA)	0.70	J	2.0	0.25	ng/L		01/16/20 06:11	01/17/20 01:38	1
Perfluorooctanoic acid (PFOA)	2.4		2.0	0.83	ng/L		01/16/20 06:11	01/17/20 01:38	1
Perfluorononanoic acid (PFNA)	0.50	J	2.0	0.26	ng/L		01/16/20 06:11	01/17/20 01:38	1
Perfluorodecanoic acid (PFDA)	0.30	U	2.0	0.30	ng/L		01/16/20 06:11	01/17/20 01:38	1
Perfluoroundecanoic acid (PFUnA)	1.1	U	2.0	1.1	ng/L		01/16/20 06:11	01/17/20 01:38	- 1
Perfluorododecanoic acid (PFDoA)	0.54	U	2.0	0.54	ng/L		01/16/20 06:11	01/17/20 01:38	1
Perfluorotridecanoic acid (PFTriA)	1.3	U	2.0	1.3	ng/L		01/16/20 06:11	01/17/20 01:38	1
Perfluorotetradecanoic acid (PFTeA)	0.28	U	2.0	0.28	ng/L		01/16/20 06:11	01/17/20 01:38	1
Perfluorobutanesulfonic acid (PFBS)	1.9	J	2.0	0.20	ng/L		01/16/20 06:11	01/17/20 01:38	1
Perfluoropentanesulfonic acid (PFPeS)	0.29	U	2.0	0.29	ng/L		01/16/20 06:11	01/17/20 01:38	1
Perfluorohexanesulfonic acid (PFHxS)	0.78	JB	2.0	0.17	ng/L		01/16/20 06:11	01/17/20 01:38	1
Perfluoroheptanesulfonic Acid	0.19	U	2.0	0.19	ng/L		01/16/20 06:11	01/17/20 01:38	1
Perfluorooctanesulfonic acid (PFOS)	5.2		2.0	0.53	ng/L		01/16/20 06:11	01/17/20 01:38	1
Perfluorononanesulfonic acid (PFNS)	0.16	U	2.0	0.16	ng/L		01/16/20 06:11	01/17/20 01:38	1
Perfluorodecanesulfonic acid (PFDS)	0.31	U	2.0	0.31	ng/L		01/16/20 06:11	01/17/20 01:38	1
Perfluorooctanesulfonamide (FOSA)	0.34	U	2.0	0.34	ng/L		01/16/20 06:11	01/17/20 01:38	1
N-methylperfluorooctanesulfonamidoa cetic acid (NMeFOSAA)	3.0	U	20	3.0	ng/L		01/16/20 06:11	01/17/20 01:38	1
N-ethylperfluorooctanesulfonamidoac etic acid (NEtFOSAA)	1.9	U	20	1.9	ng/L		01/16/20 06:11	01/17/20 01:38	1
4:2 FTS	5.1	Ų	20	5.1	ng/L		01/16/20 06:11	01/17/20 01:38	1
6:2 FTS	2.0	U	20	2.0	ng/L		01/16/20 06:11	01/17/20 01:38	1
8:2 FTS	2.0	U	20	2.0	ng/L		01/16/20 06:11	01/17/20 01:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.18	U	2.0		ng/L		01/16/20 06:11	01/17/20 01:38	1
HFPO-DA (GenX)	1.5	U *	3.9	1.5	ng/L		01/16/20 06:11	01/17/20 01:38	1
F-53B Major	0.24	U	2.0	0.24	ng/L		01/16/20 06:11	01/17/20 01:38	1
F-53B Minor	0.31	U	2.0	0.31	ng/L		01/16/20 06:11	01/17/20 01:38	1
sotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	78		25 - 150				01/16/20 06:11	01/17/20 01:38	1
13C5 PFPeA	91		25 - 150				01/16/20 06:11	01/17/20 01:38	1
13C2 PFHxA	98		25 - 150				01/16/20 06:11	01/17/20 01:38	1
13C4 PFHpA	98		25 - 150				01/16/20 06:11	01/17/20 01:38	1
13C4 PFOA	94		25 - 150				01/16/20 06:11	01/17/20 01:38	1
13C5 PFNA	99		25 - 150				01/16/20 06:11	01/17/20 01:38	1
13C2 PFDA	90		25 - 150					01/17/20 01:38	1
13C2 PFUnA	97		25 - 150					01/17/20 01:38	1
13C2 PFDoA	87		25 - 150					01/17/20 01:38	1
13C2 PFTeDA	44		25 - 150					01/17/20 01:38	1
1802 PFHxS	107		25 - 150					01/17/20 01:38	1
13C4 PFOS	107		25 - 150					01/17/20 01:38	1
13C8 FOSA	100		25 - 150 25 - 150					01/17/20 01:38	1
d3-NMeFOSAA	107		25 - 150 25 - 150					01/17/20 01:38	1

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Job ID: 240-124607-1

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Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

Lab Sample ID: 240-124607-1

Matrix: Water

Job ID: 240-124607-1

Client Sample ID: NEG-20-01-SW-SECLUDED LAKE (I) Date Collected: 01/03/20 09:50

Date Received: 01/07/20 09:20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	112		25 - 150	01/16/20 06:11	01/17/20 01:38	1
M2-6:2 FTS	101		25 - 150	01/16/20 06:11	01/17/20 01:38	1
M2-8:2 FTS	86		25 - 150	01/16/20 06:11	01/17/20 01:38	1
M2-4:2 FTS	97		25 - 150	01/16/20 06:11	01/17/20 01:38	1
13C3 HFPO-DA	88		25 - 150	01/16/20 06:11	01/17/20 01:38	1
13C3 PFBS	108		25 - 150	01/16/20 06:11	01/17/20 01:38	1

Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

Client Sample ID: NEG-20-01-SW-CREEK 2 N(I)

Lab Sample ID: 240-124607-2 Date Collected: 01/03/20 10:00 Matrix: Water

Date Received: 01/07/20 09:20

Method: 537 (modified) - Fluor Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.5		1.9	0.33	ng/L		01/16/20 06:11	01/17/20 01:46	1
Perfluoropentanoic acid (PFPeA)	0.76	J	1.9	0.46	ng/L		01/16/20 06:11	01/17/20 01:46	- 1
Perfluorohexanoic acid (PFHxA)	0.81	J	1.9	0.54	ng/L		01/16/20 06:11	01/17/20 01:46	1
Perfluoroheptanoic acid (PFHpA)	0.60	J	1.9	0.23	ng/L		01/16/20 06:11	01/17/20 01:46	1
Perfluorooctanoic acid (PFOA)	2.9		1.9	0.79	ng/L		01/16/20 06:11	01/17/20 01:46	1
Perfluorononanoic acid (PFNA)	0.27	J	1.9	0.25	ng/L		01/16/20 06:11	01/17/20 01:46	1
Perfluorodecanoic acid (PFDA)	0.29	U	1.9	0.29	ng/L		01/16/20 06:11	01/17/20 01:46	1
Perfluoroundecanoic acid (PFUnA)	1.0	U	1.9	1.0	ng/L		01/16/20 06:11	01/17/20 01:46	- 1
Perfluorododecanoic acid (PFDoA)	0.51	U	1.9	0.51	ng/L		01/16/20 06:11	01/17/20 01:46	1
Perfluorotridecanoic acid (PFTriA)	1.2	U	1.9	1.2	ng/L		01/16/20 06:11	01/17/20 01:46	1
Perfluorotetradecanoic acid (PFTeA)	0.27	U	1.9		ng/L		01/16/20 06:11	01/17/20 01:46	1
Perfluorobutanesulfonic acid	4.8		1.9		ng/L		01/16/20 06:11	01/17/20 01:46	1
Perfluoropentanesulfonic acid	2.0		1.9	0.28	ng/L		01/16/20 06:11	01/17/20 01:46	
Perfluorohexanesulfonic acid (PFHxS)	2.6	В	1.9	0.16			01/16/20 06:11	01/17/20 01:46	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.18	U	1.9	0.18				01/17/20 01:46	1
Perfluorooctanesulfonic acid (PFOS)	5.7		1.9	0.50			01/16/20 06:11	01/17/20 01:46	
Perfluorononanesulfonic acid (PFNS)	0.15	U	1.9	0.15	ng/L		01/16/20 06:11	01/17/20 01:46	
Perfluorodecanesulfonic acid (PFDS)	0.30	U	1.9	0.30	ng/L		01/16/20 06:11	01/17/20 01:46	
Perfluorooctanesulfonamide (FOSA)	0.33	U	1.9	0.33	ng/L		01/16/20 06:11	01/17/20 01:46	
N-methylperfluorooctanesulfonamidoa cetic acid (NMeFOSAA)	2.9	U	19	2.9	ng/L		01/16/20 06:11	01/17/20 01:46	
N-ethylperfluorooctanesulfonamidoac etic acid (NEtFOSAA)	1.8	U	19	1.8	ng/L		01/16/20 06:11	01/17/20 01:46	
4:2 FTS	4.8	U	19	4.8	ng/L		01/16/20 06:11	01/17/20 01:46	
6:2 FTS	1.9	U	19	1.9	ng/L		01/16/20 06:11	01/17/20 01:46	
3:2 FTS	1.9	U	19	1.9	ng/L		01/16/20 06:11	01/17/20 01:46	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.17	U	1.9	0.17	ng/L		01/16/20 06:11	01/17/20 01:46	
HFPO-DA (GenX)	1.4	U *	3.7	1.4	ng/L		01/16/20 06:11	01/17/20 01:46	
-53B Major	0.22	U	1.9	0.22	ng/L		01/16/20 06:11	01/17/20 01:46	
F-53B Minor	0.30	U	1.9	0.30	ng/L		01/16/20 06:11	01/17/20 01:46	3
sotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
13C4 PFBA	79		25 - 150					01/17/20 01:46	
13C5 PFPeA	93		25 - 150					01/17/20 01:46	
13C2 PFHxA	99		25 - 150					01/17/20 01:46	
13C4 PFHpA	99		25 - 150					01/17/20 01:46	
13C4 PFOA	96		25 - 150					01/17/20 01:46	
13C5 PFNA	93		25 - 150 25 - 150					01/17/20 01:46	
13C2 PFDA	87		25 - 150 25 - 150					01/17/20 01:46	
13C2 PFUnA	79		25 <sub>-</sub> 150					01/17/20 01:46	
13C2 PFDoA	79 81		25 - 150 25 - 150					01/17/20 01:46	
13C2 PFTeDA	76 105		25 - 150 25 - 150					01/17/20 01:46	
1802 PFHxS	105		25 <sub>-</sub> 150					01/17/20 01:46	
13C4 PFOS	101		25 - 150					01/17/20 01:46	
13C8 FOSA	123		25 - 150				01/16/20 06:11	01/17/20 01:46	

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Job ID: 240-124607-1

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Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

Date Received: 01/07/20 09:20

13C3 PFBS

Lab Sample ID: 240-124607-2

01/16/20 06:11 01/17/20 01:46

Client Sample ID: NEG-20-01-SW-CREEK 2 N(I) Date Collected: 01/03/20 10:00

Matrix: Water

Job ID: 240-124607-1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	106		25 - 150	01/16/20 06:11	01/17/20 01:46	1
M2-6:2 FTS	88		25 - 150	01/16/20 06:11	01/17/20 01:46	1
M2-8:2 FTS	80		25 - 150	01/16/20 06:11	01/17/20 01:46	1
M2-4:2 FTS	84		25 - 150	01/16/20 06:11	01/17/20 01:46	- 1
13C3 HFPO-DA	104		25 - 150	01/16/20 06:11	01/17/20 01:46	3

25 - 150

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1

Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

Client Sample ID: NEG-20-01-SW-HOLE 2 POND(I)

Lab Sample ID: 240-124607-3 Date Collected: 01/03/20 10:10 Matrix: Water

Date Received: 01/07/20 09:20

Method: 537 (modified) - Fluoi Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.1		1.8	0.32	ng/L		01/16/20 06:11	01/17/20 01:54	1
Perfluoropentanoic acid (PFPeA)	2.8		1.8	0.45	ng/L		01/16/20 06:11	01/17/20 01:54	1
Perfluorohexanoic acid (PFHxA)	3.7		1.8	0.53	ng/L		01/16/20 06:11	01/17/20 01:54	1
Perfluoroheptanoic acid (PFHpA)	2.4		1.8	0.23	ng/L		01/16/20 06:11	01/17/20 01:54	- 1
Perfluorooctanoic acid (PFOA)	10		1.8	0.78	ng/L		01/16/20 06:11	01/17/20 01:54	1
Perfluorononanoic acid (PFNA)	0.47	J	1.8	0.25	ng/L		01/16/20 06:11	01/17/20 01:54	1
Perfluorodecanoic acid (PFDA)	0.28	U	1.8	0.28	ng/L		01/16/20 06:11	01/17/20 01:54	1
Perfluoroundecanoic acid (PFUnA)	1.0	U	1.8	1.0	ng/L		01/16/20 06:11	01/17/20 01:54	
Perfluorododecanoic acid (PFDoA)	0.50	U	1.8	0.50	ng/L		01/16/20 06:11	01/17/20 01:54	
Perfluorotridecanoic acid (PFTriA)	1.2	U	1.8	1.2	ng/L		01/16/20 06:11	01/17/20 01:54	
Perfluorotetradecanoic acid (PFTeA)	0.26	U	1.8	0.26	ng/L		01/16/20 06:11	01/17/20 01:54	
Perfluorobutanesulfonic acid (PFBS)	9.6		1.8	0.18	ng/L		01/16/20 06:11	01/17/20 01:54	1
Perfluoropentanesulfonic acid (PFPeS)	5.8		1.8	0.27	ng/L		01/16/20 06:11	01/17/20 01:54	
Perfluorohexanesulfonic acid (PFHxS)	9.0		1.8		ng/L			01/17/20 01:54	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.0	J	1.8		ng/L			01/17/20 01:54	
Perfluorooctanesulfonic acid (PFOS)	26	34	1.8		ng/L			01/17/20 01:54	
Perfluorononanesulfonic acid (PFNS)	0.15		1.8		ng/L			01/17/20 01:54	
Perfluorodecanesulfonic acid (PFDS)	0.29		1.8		ng/L			01/17/20 01:54	
Perfluorooctanesulfonamide (FOSA)	0.32		1.8		ng/L			01/17/20 01:54	
N-methylperfluorooctanesulfonamidoa cetic acid (NMeFOSAA)	2.8		18		ng/L			01/17/20 01:54	
N-ethylperfluorooctanesulfonamidoac etic acid (NEtFOSAA)	1.7		18		ng/L			01/17/20 01:54	
4:2 FTS	4.7		18		ng/L			01/17/20 01:54	
6:2 FTS	1.8		18		ng/L			01/17/20 01:54	
8:2 FTS	1.8	U	18		ng/L		01/16/20 06:11	01/17/20 01:54	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.16		1.8		ng/L			01/17/20 01:54	
HFPO-DA (GenX)		U*	3.6		ng/L		01/16/20 06:11	01/17/20 01:54	
F-53B Major	0.22	U	1.8	0.22	ng/L		01/16/20 06:11	01/17/20 01:54	
F-53B Minor	0.29	U	1.8	0.29	ng/L		01/16/20 06:11	01/17/20 01:54	
sotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
13C4 PFBA	66		25 - 150				01/16/20 06:11	01/17/20 01:54	
13C5 PFPeA	90		25 - 150				01/16/20 06:11	01/17/20 01:54	
13C2 PFHxA	92		25 - 150				01/16/20 06:11	01/17/20 01:54	
13C4 PFHpA	95		25 - 150				01/16/20 06:11	01/17/20 01:54	
13C4 PFOA	95		25 - 150				01/16/20 06:11	01/17/20 01:54	
13C5 PFNA	98		25 - 150				01/16/20 06:11	01/17/20 01:54	
13C2 PFDA	87		25 - 150					01/17/20 01:54	
13C2 PFUnA	92		25 - 150					01/17/20 01:54	
13C2 PFDoA	82		25 - 150					01/17/20 01:54	
13C2 PFTeDA	65		25 - 150					01/17/20 01:54	
1802 PFHxS	102		25 - 150					01/17/20 01:54	
13C4 PFOS	102		25 - 150 25 - 150					01/17/20 01:54	
13C8 FOSA	126		25 - 150 25 - 150					01/17/20 01:54	
d3-NMeFOSAA	120		25 - 150 25 - 150					01/17/20 01:54	

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Job ID: 240-124607-1

Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

Lab Sample ID: 240-124607-3

Matrix: Water

Job ID: 240-124607-1

Client Sample ID: NEG-20-01-SW-HOLE 2 POND(I)

Date Collected: 01/03/20 10:10 Date Received: 01/07/20 09:20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	113		25 - 150	01/16/20 06:11	01/17/20 01:54	1
M2-6:2 FTS	95		25 - 150	01/16/20 06:11	01/17/20 01:54	1
M2-8:2 FTS	93		25 - 150	01/16/20 06:11	01/17/20 01:54	1
M2-4:2 FTS	84		25 - 150	01/16/20 06:11	01/17/20 01:54	1
13C3 HFPO-DA	76		25 - 150	01/16/20 06:11	01/17/20 01:54	1
13C3 PFBS	102		25 - 150	01/16/20 06:11	01/17/20 01:54	1

Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

Client Sample ID: NEG-20-01-SW-CREEK 1 N(I)

Lab Sample ID: 240-124607-4 Date Collected: 01/03/20 10:15 Date Received: 01/07/20 09:20

Matrix: Water

Job ID: 240-124607-1

Method: 537 (modified) - Fluor Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.4	44411101	1.9		ng/L		01/16/20 06:11	01/17/20 02:02	1
Perfluoropentanoic acid (PFPeA)	1.5	at:	1.9		ng/L		01/16/20 06:11	01/17/20 02:02	1
Perfluorohexanoic acid (PFHxA)	2.1		1.9		ng/L			01/17/20 02:02	1
Perfluoroheptanoic acid (PFHpA)	0.81	J.	1.9		ng/L			01/17/20 02:02	1
Perfluorooctanoic acid (PFOA)	4.3		1.9	0.82				01/17/20 02:02	1
Perfluorononanoic acid (PFNA)	0.26	II	1.9	0.26	3 3 Y			01/17/20 02:02	1
Perfluorodecanoic acid (PFDA)	0.30		1.9	0.30				01/17/20 02:02	. 1
Perfluoroundecanoic acid (PFUnA)	1.1		1.9		ng/L			01/17/20 02:02	1
Perfluorododecanoic acid (PFDoA)	0.53		1.9	0.53	7 6			01/17/20 02:02	1
Perfluorotridecanoic acid (PFTriA)	1.3		1.9		ng/L			01/17/20 02:02	1
Perfluorotetradecanoic acid (PFTeA)	0.28		1.9		ng/L		01/16/20 06:11	01/17/20 02:02	1
Perfluorobutanesulfonic acid	5.9	J	1.9		ng/L			01/17/20 02:02	1
(PFBS)									
Perfluoropentanesulfonic acid (PFPeS)	1.7		1.9	0.29	371			01/17/20 02:02	1
Perfluorohexanesulfonic acid (PFHxS)	3.3		1.9		ng/L			01/17/20 02:02	- 1
Perfluoroheptanesulfonic Acid (PFHpS)	0.23	J	1.9	0.18	ng/L		01/16/20 06:11	01/17/20 02:02	1
Perfluorooctanesulfonic acid (PFOS)	6.9		1.9	0.52	ng/L		01/16/20 06:11	01/17/20 02:02	1
Perfluorononanesulfonic acid (PFNS)	0.16	U	1.9	0.16	ng/L		01/16/20 06:11	01/17/20 02:02	1
Perfluorodecanesulfonic acid (PFDS)	0.31	U	1.9	0.31	ng/L		01/16/20 06:11	01/17/20 02:02	1
Perfluorooctanesulfonamide (FOSA)	0.34	U	1.9	0.34	ng/L		01/16/20 06:11	01/17/20 02:02	1
N-methylperfluorooctanesulfonamidoa cetic acid (NMeFOSAA)	3.0	U	19	3.0	ng/L		01/16/20 06:11	01/17/20 02:02	1
N-ethylperfluorooctanesulfonamidoac etic acid (NEtFOSAA)	1.8	U	19	1.8	ng/L		01/16/20 06:11	01/17/20 02:02	1
4:2 FTS	5.0	U	19	5.0	ng/L		01/16/20 06:11	01/17/20 02:02	1
6:2 FTS	1.9	U	19		ng/L		01/16/20 06:11	01/17/20 02:02	1
B:2 FTS	1.9		19		ng/L			01/17/20 02:02	1
4,8-Dioxa-3H-perfluorononanoic acid	0.17		1.9		ng/L		01/16/20 06:11	01/17/20 02:02	1
HFPO-DA (GenX)	1.5	U *	3.9	1.5	ng/L		01/16/20 06:11	01/17/20 02:02	1
F-53B Major	0.23		1.9		ng/L			01/17/20 02:02	1
F-53B Minor	0.31		1.9		ng/L			01/17/20 02:02	1
sotope Dilution	%Recovery		Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	84	200000	25 - 150					01/17/20 02:02	1
13C5 PFPeA	95		25 - 150					01/17/20 02:02	1
13C2 PFHxA	99		25 - 150					01/17/20 02:02	1
13C4 PFHpA	101		25 - 150					01/17/20 02:02	1
13C4 PFOA	97		25 - 150					01/17/20 02:02	1
13C5 PFNA	93		25 - 150					01/17/20 02:02	1
13C2 PFDA	88		25 - 150					01/17/20 02:02	1
13C2 PFUnA	79		25 - 150					01/17/20 02:02	1
13C2 PFDoA	84		25 - 150					01/17/20 02:02	1
13C2 PFTeDA	74		25 - 150					01/17/20 02:02	1
1802 PFHxS	106		25 - 150					01/17/20 02:02	1
13C4 PFOS	100		25 - 150					01/17/20 02:02	1
13C8 FOSA	117		25 - 150				01/16/20 06:11	01/17/20 02:02	1

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Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

Lab Sample ID: 240-124607-4

Matrix: Water

Job ID: 240-124607-1

Client Sample ID: NEG-20-01-SW-CREEK 1 N(I)

Date Collected: 01/03/20 10:15 Date Received: 01/07/20 09:20

Isotope Dilution	%Recovery Qualific	er Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	107	25 - 150	01/16/20 06:11	01/17/20 02:02	1
M2-6:2 FTS	80	25 - 150	01/16/20 06:11	01/17/20 02:02	1
M2-8:2 FTS	71	25 - 150	01/16/20 06:11	01/17/20 02:02	1
M2-4:2 FTS	82	25 - 150	01/16/20 06:11	01/17/20 02:02	1
13C3 HFPO-DA	83	25 - 150	01/16/20 06:11	01/17/20 02:02	1
13C3 PFBS	106	25 - 150	01/16/20 06:11	01/17/20 02:02	1

Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

Client Sample ID: NEG-20-01-SW-MINE POND(I)

Lab Sample ID: 240-124607-5 Date Collected: 01/03/20 10:20 Matrix: Water

Date Received: 01/07/20 09:20

Method: 537 (modified) - Fluo Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
Perfluorobutanoic acid (PFBA)	2.9		1.9		ng/L		01/16/20 06:11	01/17/20 02:10	
Perfluoropentanoic acid (PFPeA)	1.6	J	1.9		ng/L		01/16/20 06:11	01/17/20 02:10	
Perfluorohexanoic acid (PFHxA)	2.2		1.9	0.56	ng/L		01/16/20 06:11	01/17/20 02:10	1
Perfluoroheptanoic acid (PFHpA)	1.1	J	1.9	0.24	ng/L		01/16/20 06:11	01/17/20 02:10	
Perfluorooctanoic acid (PFOA)	4.9		1.9	0.82	ng/L		01/16/20 06:11	01/17/20 02:10	
Perfluorononanoic acid (PFNA)	0.27	J	1.9	0.26	ng/L		01/16/20 06:11	01/17/20 02:10	
Perfluorodecanoic acid (PFDA)	0.30	U	1.9	0.30	ng/L		01/16/20 06:11	01/17/20 02:10	
Perfluoroundecanoic acid (PFUnA)	1.1	U	1.9	1.1	ng/L		01/16/20 06:11	01/17/20 02:10	
Perfluorododecanoic acid (PFDoA)	0.53	U	1.9	0.53	ng/L		01/16/20 06:11	01/17/20 02:10	- 3
Perfluorotridecanoic acid (PFTriA)	1.2	U	1.9	1.2	ng/L		01/16/20 06:11	01/17/20 02:10	
Perfluorotetradecanoic acid (PFTeA)	0.31	JB	1.9	0.28	ng/L		01/16/20 06:11	01/17/20 02:10	
Perfluorobutanesulfonic acid (PFBS)	5.6		1.9		ng/L			01/17/20 02:10	
Perfluoropentanesulfonic acid (PFPeS)	1.6		1.9		ng/L			01/17/20 02:10	
Perfluorohexanesulfonic acid (PFHxS)	3.0		1.9		ng/L			01/17/20 02:10	
Perfluoroheptanesulfonic Acid (PFHpS)	0.24	J	1.9		ng/L			01/17/20 02:10	
Perfluorooctanesulfonic acid (PFOS)	<b>6.7</b> 0.15	it	1.9	0.52				01/17/20 02:10	
Perfluorononanesulfonic acid (PFNS)			1.9		ng/L		[		
Perfluorodecanesulfonic acid (PFDS)	0.31		1.9		ng/L			01/17/20 02:10	
Perfluorooctanesulfonamide (FOSA)	0.34		1.9		ng/L			01/17/20 02:10	
N-methylperfluorooctanesulfonamidoa cetic acid (NMeFOSAA)	3.0		19		ng/L			01/17/20 02:10	
N-ethylperfluorooctanesulfonamidoac etic acid (NEtFOSAA)	1.8 5.0		19 19		ng/L			01/17/20 02:10	
4:2 FTS					ng/L			01/17/20 02:10	
6:2 FTS	1.9		19		ng/L			01/17/20 02:10	
8:2 FTS	1.9		19		ng/L			01/17/20 02:10	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.17		1.9		ng/L			01/17/20 02:10	
HFPO-DA (GenX)		U*	3.8		ng/L			01/17/20 02:10	
F-53B Major	0.23		1.9		ng/L			01/17/20 02:10	
F-53B Minor	0.31	U	1.9	0.31	ng/L		01/16/20 06:11	01/17/20 02:10	
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
13C4 PFBA	80		25 - 150				01/16/20 06:11	01/17/20 02:10	
13C5 PFPeA	93		25 - 150				01/16/20 06:11	01/17/20 02:10	
13C2 PFHxA	95		25 - 150				01/16/20 06:11	01/17/20 02:10	
13C4 PFHpA	94		25 - 150				01/16/20 06:11	01/17/20 02:10	
13C4 PFOA	94		25 - 150				01/16/20 06:11	01/17/20 02:10	
13C5 PFNA	89		25 - 150				01/16/20 06:11	01/17/20 02:10	
13C2 PFDA	78		25 - 150				01/16/20 06:11	01/17/20 02:10	
13C2 PFUnA	84		25 - 150				01/16/20 06:11	01/17/20 02:10	
13C2 PFDoA	85		25 - 150				01/16/20 06:11	01/17/20 02:10	
13C2 PFTeDA	70		25 - 150				01/16/20 06:11	01/17/20 02:10	
1802 PFHxS	102		25 - 150				01/16/20 06:11	01/17/20 02:10	
13C4 PFOS	100		25 - 150					01/17/20 02:10	
13C8 FOSA	114		25 - 150					01/17/20 02:10	

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1/23/2020

Job ID: 240-124607-1

Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

13C3 HFPO-DA

13C3 PFBS

Client Sample ID: NEG-20-01-SW-MINE POND(I)

Lab Sample ID: 240-124607-5

Date Collected: 01/03/20 10:20 Matrix: Water
Date Received: 01/07/20 09:20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	100		25 - 150	01/16/20 06:11	01/17/20 02:10	1
d5-NEtFOSAA	102		25 - 150	01/16/20 06:11	01/17/20 02:10	1
M2-6:2 FTS	79		25 - 150	01/16/20 06:11	01/17/20 02:10	1
M2-8:2 FTS	72		25 - 150	01/16/20 06:11	01/17/20 02:10	1
M2-4:2 FTS	82		25 - 150	01/16/20 06:11	01/17/20 02:10	1

25 - 150

25 - 150

81

102

Job ID: 240-124607-1

01/16/20 06:11 01/17/20 02:10

01/16/20 06:11 01/17/20 02:10





Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

Lab Sample ID: 240-124607-6 Client Sample ID: NEG-20-01-SW-CEMETERY POND(I)

Date Collected: 01/03/20 10:40 Matrix: Water Date Received: 01/07/20 09:20

Method: 537 (modified) - Fluor Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.5		1.9	0.33			01/16/20 06:11	01/17/20 02:18	
Perfluoropentanoic acid (PFPeA)	1.0		1.9	0.47			01/16/20 06:11	01/17/20 02:18	
Perfluorohexanoic acid (PFHxA)	1.3		1.9	0.55			01/16/20 06:11	01/17/20 02:18	1
Perfluoroheptanoic acid (PFHpA)	0.68	J	1.9	0.24			01/16/20 06:11	01/17/20 02:18	- 1
Perfluorooctanoic acid (PFOA)	3.5		1.9		ng/L		01/16/20 06:11	01/17/20 02:18	1
Perfluorononanoic acid (PFNA)	0.26	U	1.9	0.26			01/16/20 06:11	01/17/20 02:18	1
Perfluorodecanoic acid (PFDA)	0.29	U	1.9	0.29	ng/L		01/16/20 06:11	01/17/20 02:18	
Perfluoroundecanoic acid (PFUnA)	1.0	U	1.9	1.0	ng/L		01/16/20 06:11	01/17/20 02:18	
Perfluorododecanoic acid (PFDoA)	0.52	U	1.9	0.52	ng/L		01/16/20 06:11	01/17/20 02:18	
Perfluorotridecanoic acid (PFTriA)	1.2	U	1.9	1.2	ng/L		01/16/20 06:11	01/17/20 02:18	
Perfluorotetradecanoic acid (PFTeA)	0.28	U	1.9	0.28	ng/L		01/16/20 06:11	01/17/20 02:18	
Perfluorobutanesulfonic acid (PFBS)	5.9		1.9	0.19	ng/L		01/16/20 06:11	01/17/20 02:18	
Perfluoropentanesulfonic acid (PFPeS)	2.3		1.9	0.28	ng/L		01/16/20 06:11	01/17/20 02:18	
Perfluorohexanesulfonic acid (PFHxS)	3.4	В	1.9	0.16	ng/L		01/16/20 06:11	01/17/20 02:18	
Perfluoroheptanesulfonic Acid (PFHpS)	0.28	J	1.9	0.18	Nava III		01/16/20 06:11	01/17/20 02:18	
Perfluorooctanesulfonic acid (PFOS)	6.2		1.9	0.51	ng/L		01/16/20 06:11	01/17/20 02:18	*
Perfluorononanesulfonic acid (PFNS)	0.15	U	1.9	0.15	-		01/16/20 06:11	01/17/20 02:18	1
Perfluorodecanesulfonic acid (PFDS)	0.30	U	1.9	0.30	V 3 3 1 2 1		01/16/20 06:11	01/17/20 02:18	
Perfluorooctanesulfonamide (FOSA)	0.33	U	1.9	0.33	ng/L		01/16/20 06:11	01/17/20 02:18	1
N-methylperfluorooctanesulfonamidoa cetic acid (NMeFOSAA)	2.9	U	19	2.9	ng/L		01/16/20 06:11	01/17/20 02:18	
N-ethylperfluorooctanesulfonamidoac etic acid (NEtFOSAA)	1.8		19	1.8	ng/L		01/16/20 06:11	01/17/20 02:18	
4:2 FTS	4.9	U	19	4.9	ng/L		01/16/20 06:11	01/17/20 02:18	
6:2 FTS	1.9	U	19	1.9	ng/L		01/16/20 06:11	01/17/20 02:18	
8:2 FTS	1.9	U	19	1.9	ng/L		01/16/20 06:11	01/17/20 02:18	- 1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.17	U	1.9	0.17	ng/L		01/16/20 06:11	01/17/20 02:18	*
HFPO-DA (GenX)	1.4	U *	3.8	1.4	ng/L		01/16/20 06:11	01/17/20 02:18	1
F-53B Major	0.23	U	1.9	0.23	ng/L		01/16/20 06:11	01/17/20 02:18	
F-53B Minor	0.30	U	1.9	0.30	ng/L		01/16/20 06:11	01/17/20 02:18	
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
13C4 PFBA	80		25 - 150				01/16/20 06:11	01/17/20 02:18	
13C5 PFPeA	97		25 - 150				01/16/20 06:11	01/17/20 02:18	
13C2 PFHxA	97		25 - 150				01/16/20 06:11	01/17/20 02:18	
13C4 PFHpA	96		25 - 150				01/16/20 06:11	01/17/20 02:18	
13C4 PFOA	97		25 - 150					01/17/20 02:18	
13C5 PFNA	93		25 - 150					01/17/20 02:18	
13C2 PFDA	91		25 - 150					01/17/20 02:18	
13C2 PFUnA	80		25 - 150					01/17/20 02:18	
13C2 PFDoA	88		25 - 150 25 - 150					01/17/20 02:18	
13C2 PFTeDA	79		25 - 150 25 - 150					01/17/20 02:18	
1802 PFHxS	106		25 <sub>-</sub> 150					01/17/20 02:18	
13C4 PFOS 13C8 FOSA	104 125		25 <sub>-</sub> 150 25 <sub>-</sub> 150					01/17/20 02:18 01/17/20 02:18	

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Job ID: 240-124607-1

Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

Lab Sample ID: 240-124607-6 Client Sample ID: NEG-20-01-SW-CEMETERY POND(I)

Date Collected: 01/03/20 10:40 Matrix: Water

Date Received: 01/07/20 09:20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	108		25 - 150	01/16/20 06:11	01/17/20 02:18	1
M2-6:2 FTS	84		25 - 150	01/16/20 06:11	01/17/20 02:18	1
M2-8:2 FTS	79		25 - 150	01/16/20 06:11	01/17/20 02:18	1
M2-4:2 FTS	80		25 - 150	01/16/20 06:11	01/17/20 02:18	1
13C3 HFPO-DA	85		25 - 150	01/16/20 06:11	01/17/20 02:18	1
13C3 PFBS	105		25 - 150	01/16/20 06:11	01/17/20 02:18	1

Job ID: 240-124607-1

Client: Fishbeck Thompson Carr & Huber Inc Project/Site: NE Gravel 181258

Job ID: 240-124607-1

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

Lab Sample ID: MB 320-35108 Matrix: Water	8/1-A						The state of the s	ole ID: Method Prep Type: To	
Analysis Batch: 351259	MR	МВ						Prep Batch:	35108
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Perfluorobutanoic acid (PFBA)	0.35		2.0		ng/L			01/17/20 01:14	
Perfluoropentanoic acid (PFPeA)	0.49		2.0		ng/L		01/16/20 06:11		
Perfluorohexanoic acid (PFHxA)	0.58		2.0		ng/L		01/16/20 06:11	01/17/20 01:14	
Perfluoroheptanoic acid (PFHpA)	0.25	U	2.0	0.25	ng/L		01/16/20 06:11	01/17/20 01:14	
Perfluorooctanoic acid (PFOA)	0.85	U	2.0		ng/L		01/16/20 06:11	01/17/20 01:14	
Perfluorononanoic acid (PFNA)	0.27	U	2.0		ng/L		01/16/20 06:11	01/17/20 01:14	
Perfluorodecanoic acid (PFDA)	0.31		2.0		ng/L		01/16/20 06:11	01/17/20 01:14	
Perfluoroundecanoic acid (PFUnA)	1.1	U	2.0	1.1	ng/L		01/16/20 06:11	01/17/20 01:14	
Perfluorododecanoic acid (PFDoA)	0.55	U	2.0		ng/L			01/17/20 01:14	
Perfluorotridecanoic acid (PFTriA)	1.3	U	2.0		ng/L			01/17/20 01:14	
Perfluorotetradecanoic acid (PFTeA)	0.304		2.0		ng/L			01/17/20 01:14	
Perfluorobutanesulfonic acid (PFBS)	0.20		2.0		ng/L			01/17/20 01:14	
Perfluoropentanesulfonic acid	0.30		2.0		ng/L			01/17/20 01:14	
(PFPeS)			7.5	6140			201225 2000		
Perfluorohexanesulfonic acid (PFHxS)	0.303	J	2.0	0.17	ng/L		01/16/20 06:11	01/17/20 01:14	
Perfluoroheptanesulfonic Acid (PFHpS)	0.19	U	2.0	0.19	ng/L		01/16/20 06:11	01/17/20 01:14	
Perfluorooctanesulfonic acid (PFOS)	0.54	U	2.0	0.54	ng/L		01/16/20 06:11	01/17/20 01:14	
Perfluorononanesulfonic acid (PFNS)	0.16	U	2.0	0.16	ng/L		01/16/20 06:11	01/17/20 01:14	
Perfluorodecanesulfonic acid (PFDS)	0.32	U	2.0	0.32	ng/L		01/16/20 06:11	01/17/20 01:14	
Perfluorooctanesulfonamide (FOSA)	0.35	U	2.0	0.35	ng/L		01/16/20 06:11	01/17/20 01:14	
N-methylperfluorooctanesulfonamidoa cetic acid (NMeFOSAA)	3.1	U	20	3.1	ng/L		01/16/20 06:11	01/17/20 01:14	
N-ethylperfluorooctanesulfonamidoac etic acid (NEtFOSAA)	1.9		20		ng/L			01/17/20 01:14	
4:2 FTS	5.2		20		ng/L			01/17/20 01:14	
6:2 FTS	2.0		20		ng/L		01/16/20 06:11	01/17/20 01:14	
8:2 FTS	2.0		20		ng/L			01/17/20 01:14	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	0.18		2.0		ng/L			01/17/20 01:14	
HFPO-DA (GenX)	1.5		4.0		ng/L			01/17/20 01:14	
F-53B Major	0.24		2.0		ng/L			01/17/20 01:14	
F-53B Minor	0.32		2.0	0.32	ng/L		01/16/20 06:11	01/17/20 01:14	
		MB						12.75. 95	
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
13C4 PFBA	99		25 - 150					01/17/20 01:14	
13C5 PFPeA	96		25 - 150					01/17/20 01:14	
13C2 PFHxA	97		25 - 150					01/17/20 01:14	
13C4 PFHpA	98		25 - 150					01/17/20 01:14	
13C4 PFOA	99		25 - 150					01/17/20 01:14	
13C5 PFNA	88		25 - 150					01/17/20 01:14	
13C2 PFDA	79		25 - 150				01/16/20 06:11	01/17/20 01:14	
13C2 PFUnA	75		25 - 150					01/17/20 01:14	
13C2 PFDoA	90		25 - 150					01/17/20 01:14	
13C2 PFTeDA	86		25 - 150				01/16/20 06:11	01/17/20 01:14	
1802 PFHxS	104		25 - 150					01/17/20 01:14	
13C4 PFOS	101		25 - 150				01/16/20 06:11	01/17/20 01:14	
13C8 FOSA	117		25 - 150				01/16/20 06:11	01/17/20 01:14	
d3-NMeFOSAA	100		25 - 150				01/16/20 06:11	01/17/20 01:14	
d5-NEtFOSAA	101		25 - 150				01/16/20 06:11	01/17/20 01:14	

Eurofins TestAmerica, Canton

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Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

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

Lab Sample ID: MB 320-351088/1-A

**Matrix: Water** 

Analysis Batch: 351259

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

Prep Batch: 351088

Job ID: 240-124607-1

	MB MB				
Isotope Dilution	%Recovery Qual	ifier Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	81	25 - 150	01/16/20 06:11	01/17/20 01:14	1
M2-8:2 FTS	77	25 - 150	01/16/20 06:11	01/17/20 01:14	1
M2-4:2 FTS	70	25 - 150	01/16/20 06:11	01/17/20 01:14	1
13C3 HFPO-DA	87	25 - 150	01/16/20 06:11	01/17/20 01:14	1
13C3 PFBS	101	25 - 150	01/16/20 06:11	01/17/20 01:14	1

Lab Sample ID: LCS 320-351088/2-A

**Matrix: Water** 

Analysis Batch: 351259

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

Prep Batch: 351088

Analyte	Spike Added		LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	40.5		ng/L		101	76 - 136
Perfluoropentanoic acid (PFPeA)	40.0	38.8		ng/L		97	71 - 131
Perfluorohexanoic acid (PFHxA)	40.0	38.1		ng/L		95	73 - 133
Perfluoroheptanoic acid (PFHpA)	40.0	38.2		ng/L		95	72 - 132
Perfluorooctanoic acid (PFOA)	40.0	38.0		ng/L		95	70 - 130
Perfluorononanoic acid (PFNA)	40.0	39.9		ng/L		100	75 - 135
Perfluorodecanoic acid (PFDA)	40.0	35.1		ng/L		88	76 - 136
Perfluoroundecanoic acid (PFUnA)	40.0	28.5		ng/L		71	68 - 128
Perfluorododecanoic acid (PFDoA)	40.0	38.9		ng/L		97	71 - 131
Perfluorotridecanoic acid (PFTriA)	40.0	42.7		ng/L		107	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	40.2		ng/L		100	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	35.9		ng/L		101	67 - 127
Perfluoropentanesulfonic acid (PFPeS)	37.5	39.4		ng/L		105	66 - 126
Perfluorohexanesulfonic acid (PFHxS)	36.4	34.7		ng/L		95	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	41.8		ng/L		110	76 - 136
Perfluorooctanesulfonic acid (PFOS)	37.1	37.1		ng/L		100	70 - 130
Perfluorononanesulfonic acid (PFNS)	38.4	37.7		ng/L		98	75 - 135
Perfluorodecanesulfonic acid (PFDS)	38.6	41.0		ng/L		106	71 - 131
Perfluorooctanesulfonamide (FOSA)	40.0	39.0		ng/L		97	73 - 133
N-methylperfluorooctanesulfona midoacetic acid (NMeFOSAA)	40.0	37.4		ng/L		94	76 - 136
N-ethylperfluorooctanesulfonami doacetic acid (NEtFOSAA)	40.0	39.2		ng/L		98	76 - 136
4:2 FTS	37.4	30.8		ng/L		83	79 - 139
6:2 FTS	37.9	35.9		ng/L		95	59 - 175
8:2 FTS	38.3	37.2		ng/L		97	75 - 135
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	41.2		ng/L		109	79 - 139
HFPO-DA (GenX)	40.0	31.9		ng/L		80	51 - 173
F-53B Major	37.3	35.8		ng/L		96	75 - 135

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Spike

Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

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

Lab Sample ID: LCS 320-351088/2-A

**Matrix: Water** 

Analyte

F-53B Minor

Analysis Batch: 351259

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 351088

Job ID: 240-124607-1

%Rec.

Limits

Added Result Qualifier Unit D %Rec 37.7 36.2 96 54 - 114 ng/L

LCS LCS

	LCS	LCS	
Isotope Dilution	%Recovery	Qualifier	Limits
13C4 PFBA	104		25 - 150
13C5 PFPeA	100		25 - 150
13C2 PFHxA	100		25 - 150
13C4 PFHpA	99		25 - 150
13C4 PFOA	99		25 - 150
13C5 PFNA	98		25 - 150
13C2 PFDA	89		25 - 150
13C2 PFUnA	96		25 - 150
13C2 PFDoA	87		25 - 150
13C2 PFTeDA	72		25 - 150
1802 PFHxS	109		25 - 150
13C4 PFOS	105		25 - 150
13C8 FOSA	124		25 - 150
d3-NMeFOSAA	115		25 - 150
d5-NEtFOSAA	106		25 - 150
M2-6:2 FTS	82		25 - 150
M2-8:2 FTS	75		25 - 150
M2-4:2 FTS	84		25 - 150
13C3 HFPO-DA	116		25 - 150
13C3 PFBS	108		25 - 150

Lab Sample ID: LCSD 320-351088/3-A

Matrix: Water

Analysis Batch: 351259

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

Prep Batch: 351088

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Perfluorobutanoic acid (PFBA) 40.0 40.5 ng/L 101 76 - 136 0 30 Perfluoropentanoic acid (PFPeA) 40.0 41.5 ng/L 104 71 - 131 30 Perfluorohexanoic acid (PFHxA) 40.0 40.5 ng/L 101 73 - 133 30 6 Perfluoroheptanoic acid (PFHpA) 40.0 38.7 ng/L 97 72 - 132 30 Perfluorooctanoic acid (PFOA) 40.0 40.2 ng/L 100 70 - 130 30 6 Perfluorononanoic acid (PFNA) 40.0 41.0 ng/L 103 75 - 135 3 30 Perfluorodecanoic acid (PFDA) 40.0 40.0 ng/L 100 76 - 136 13 30 40.0 33.2 Perfluoroundecanoic acid ng/L 83 68 - 128 15 30 (PFUnA) 40.0 34.9 ng/L 87 71 - 131 11 30 Perfluorododecanoic acid (PFDoA) 40.0 36.7 92 71 - 131 15 30 ng/L Perfluorotridecanoic acid (PFTriA) 40.0 40.2 101 70 - 130 0 30 ng/L Perfluorotetradecanoic acid (PFTeA) 35.4 36.1 102 67 - 127 30 Perfluorobutanesulfonic acid ng/L (PFBS) Perfluoropentanesulfonic acid 37.5 39.4 ng/L 105 66 - 126 0 30 (PFPeS) 36.4 33.9 93 2 30 ng/L 59 - 119 Perfluorohexanesulfonic acid (PFHxS)

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Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

Job ID: 240-124607-1

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

Lab Sample ID: LCSD 320-351088/3-A

**Matrix: Water** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 351259	Spike	LCSD	LCSD				Prep Batch: 35 %Rec.		1088 RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	40.3		ng/L		106	76 - 136	3	30
Perfluorooctanesulfonic acid (PFOS)	37.1	36.0		ng/L		97	70 - 130	3	30
Perfluorononanesulfonic acid (PFNS)	38.4	37.3		ng/L		97	75 - 135	1	30
Perfluorodecanesulfonic acid (PFDS)	38.6	36.7		ng/L		95	71 - 131	11	30
Perfluorooctanesulfonamide (FOSA)	40.0	38.6		ng/L		96	73 - 133	1	30
N-methylperfluorooctanesulfona midoacetic acid (NMeFOSAA)	40.0	37.4		ng/L		93	76 - 136	0	30
N-ethylperfluorooctanesulfonami doacetic acid (NEtFOSAA)	40.0	39.0		ng/L		97	76 - 136	1	30
4:2 FTS	37.4	36.6		ng/L		98	79 - 139	17	30
6:2 FTS	37.9	34.3		ng/L		90	59 - 175	5	30
8:2 FTS	38.3	33.8		ng/L		88	75 - 135	10	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	40.7		ng/L		108	79 - 139	1	30
HFPO-DA (GenX)	40.0	49.6	*	ng/L		124	51 - 173	43	30
F-53B Major	37.3	35.6		ng/L		95	75 - 135	1	30
F-53B Minor	37.7	35.0		ng/L		93	54 - 114	3	30

	LCSD	LCSD	
Isotope Dilution	%Recovery	Qualifier	Limits
13C4 PFBA	106		25 - 150
13C5 PFPeA	96		25 - 150
13C2 PFHxA	100		25 - 150
13C4 PFHpA	102		25 - 150
13C4 PFOA	95		25 - 150
13C5 PFNA	94		25 - 150
13C2 PFDA	85		25 - 150
13C2 PFUnA	81		25 - 150
13C2 PFDoA	96		25 - 150
13C2 PFTeDA	83		25 - 150
1802 PFHxS	110		25 - 150
13C4 PFOS	108		25 - 150
13C8 FOSA	127		25 - 150
d3-NMeFOSAA	113		25 - 150
d5-NEtFOSAA	114		25 - 150
M2-6:2 FTS	83		25 - 150
M2-8:2 FTS	79		25 - 150
M2-4:2 FTS	78		25 - 150
13C3 HFPO-DA	83		25 - 150
13C3 PFBS	109		25 - 150

#### **QC Association Summary**

Client: Fishbeck Thompson Carr & Huber Inc Project/Site: NE Gravel 181258

#### Job ID: 240-124607-1

#### LCMS

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-124607-1	NEG-20-01-SW-SECLUDED LAKE (I)	Total/NA	Water	3535	
240-124607-2	NEG-20-01-SW-CREEK 2 N(I)	Total/NA	Water	3535	
240-124607-3	NEG-20-01-SW-HOLE 2 POND(I)	Total/NA	Water	3535	
240-124607-4	NEG-20-01-SW-CREEK 1 N(I)	Total/NA	Water	3535	
240-124607-5	NEG-20-01-SW-MINE POND(I)	Total/NA	Water	3535	
240-124607-6	NEG-20-01-SW-CEMETERY POND(I)	Total/NA	Water	3535	
MB 320-351088/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-351088/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-351088/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

#### Analysis Batch: 351259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-124607-1	NEG-20-01-SW-SECLUDED LAKE (I)	Total/NA	Water	537 (modified)	351088
240-124607-2	NEG-20-01-SW-CREEK 2 N(I)	Total/NA	Water	537 (modified)	351088
240-124607-3	NEG-20-01-SW-HOLE 2 POND(I)	Total/NA	Water	537 (modified)	351088
240-124607-4	NEG-20-01-SW-CREEK 1 N(I)	Total/NA	Water	537 (modified)	351088
240-124607-5	NEG-20-01-SW-MINE POND(I)	Total/NA	Water	537 (modified)	351088
240-124607-6	NEG-20-01-SW-CEMETERY POND(I)	Total/NA	Water	537 (modified)	351088
MB 320-351088/1-A	Method Blank	Total/NA	Water	537 (modified)	351088
LCS 320-351088/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	351088
LCSD 320-351088/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	351088

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#### Lab Chronicle

Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

Client Sample ID: NEG-20-01-SW-SECLUDED LAKE (I)

Lab Sample ID: 240-124607-1 Date Collected: 01/03/20 09:50 Matrix: Water

Date Received: 01/07/20 09:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3535			351088	01/16/20 06:11	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1	351259	01/17/20 01:38	S1M	TAL SAC

Client Sample ID: NEG-20-01-SW-CREEK 2 N(I)

Date Collected: 01/03/20 10:00

Date Received: 01/07/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			351088	01/16/20 06:11	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1	351259	01/17/20 01:46	S1M	TAL SAC

Client Sample ID: NEG-20-01-SW-HOLE 2 POND(I)

Date Collected: 01/03/20 10:10

Date Received: 01/07/20 09:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3535	_		351088	01/16/20 06:11	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1	351259	01/17/20 01:54	S1M	TAL SAC

Client Sample ID: NEG-20-01-SW-CREEK 1 N(I)

Date Collected: 01/03/20 10:15 Date Received: 01/07/20 09:20

Date Neceive	u. 01/01/20	03.20						
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3535			351088	01/16/20 06:11	PV	TAL SAC

351259 01/17/20 02:02 S1M

Client Sample ID: NEG-20-01-SW-MINE POND(I)

537 (modified)

Date Collected: 01/03/20 10:20

Analysis

Date Received: 01/07/20 09:20

Total/NA

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3535			351088	01/16/20 06:11	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1	351259	01/17/20 02:10	S1M	TAL SAC

Client Sample ID: NEG-20-01-SW-CEMETERY POND(I)

Date Collected: 01/03/20 10:40

Date Received: 01/07/20 09:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3535			351088	01/16/20 06:11	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1	351259	01/17/20 02:18	S1M	TAL SAC

Laboratory References:

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

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Job ID: 240-124607-1

Matrix: Water

Matrix: Water

Matrix: Water

Lab Sample ID: 240-124607-2

Lab Sample ID: 240-124607-3

Lab Sample ID: 240-124607-4

Lab Sample ID: 240-124607-6

TAL SAC

Lab Sample ID: 240-124607-5

Matrix: Water

Matrix: Water

#### **Accreditation/Certification Summary**

Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

Job ID: 240-124607-1

#### Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-20
Connecticut	State	PH-0590	12-31-19 *
Florida	NELAP	E87225	06-30-20
Georgia	State	4062	02-23-20
Illinois	NELAP	004498	07-31-20
lowa	State	421	06-01-20
Kansas	NELAP	E-10336	04-30-20
Kentucky (UST)	State	112225	02-23-20
Kentucky (WW)	State	KY98016	12-31-20
Minnesota	NELAP	OH00048	12-31-20
Minnesota (Petrofund)	State Program	3506	07-31-21
New Jersey	NELAP	OH001	06-30-20
New York	NELAP	10975	03-31-20
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-23-20
Pennsylvania	NELAP	68-00340	08-31-20
Texas	NELAP	T104704517-18-10	08-31-20
USDA	US Federal Programs	P330-16-00404	12-28-19 *
Virginia	NELAP	010101	09-14-20
West Virginia DEP	State	210	12-31-20

#### Laboratory: Eurofins TestAmerica, Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	<b>Expiration Date</b>
Alaska (UST)	State	17-020	01-20-21
ANAB	Dept. of Defense ELAP	L2468	01-20-21
ANAB	Dept. of Energy	L2468.01	01-20-21
ANAB	ISO/IEC 17025	L2468	01-20-21
Arizona	State	AZ0708	08-11-20
Arkansas DEQ	State	19-042-0	06-17-20
California	State	2897	01-31-20 *
Colorado	State	CA0004	08-31-20
Connecticut	State	PH-0691	06-30-21
Florida	NELAP	E87570	06-30-20
Georgia	State	4040	01-29-20 *
Hawaii	State	<cert no.=""></cert>	01-29-20 *
Illinois	NELAP	200060	03-17-20
Kansas	NELAP	E-10375	10-31-20 *
Louisiana	NELAP	01944	06-30-20
Maine	State	2018009	04-14-20
Michigan	State	9947	01-29-20 *
Michigan	State Program	9947	01-31-20
Nevada	State	CA000442020-1	07-31-20
New Hampshire	NELAP	2997	04-18-20
New Jersey	NELAP	CA005	06-30-20
New York	NELAP	11666	04-01-20
Oregon	NELAP	4040	01-29-20 *
Pennsylvania	NELAP	68-01272	03-31-20
Texas	NELAP	T104704399-19-13	05-31-20

<sup>\*</sup> Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Canton

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### **Accreditation/Certification Summary**

Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

Job ID: 240-124607-1

#### Laboratory: Eurofins TestAmerica, Sacramento (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	<b>Identification Number</b>	<b>Expiration Date</b>
US Fish & Wildlife	US Federal Programs	58448	07-31-20
USDA	US Federal Programs	P330-18-00239	07-31-21
Utah	NELAP	CA000442019-01	02-29-20
Vermont	State	VT-4040	04-16-20
Virginia	NELAP	460278	03-14-20
Washington	State	C581	05-05-20
West Virginia (DW)	State	9930C	12-31-19 *
West Virginia (DW)	State	9930C	12-31-20
Wyoming	State Program	8TMS-L	01-28-19 *

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<sup>\*</sup> Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Canton

PROJECT NA		ORD Phone: 616.575.3824						- X	Email:					Reference	:e:		
Northeast G		PROJECT NO. 181258	1	MATRI	X TYP	E		3	REQ	UIRED A	ANALYSES			PAGE	1	of	
PROJECT LO		SAMPLER(S) NAME					st	6-1									
PROJECT M		PHONE 616.464.3876					NA.	Rev1.		_		1/2		ST	DITAT	X	
Dan Green	ė	EMAIL dggreene@ fishbeck.com					sotope	-	(	Gra	ind i	Hapi	GS				
ADDITIONA	L INFORMAT	ON	AQUEOUS (WATER)	SOUD/SEMI-SOUD		NONAQUEOUS LIQUID	PFAS/537M W/Isotope 24 List	PFAY/53			27	1			ATE DUE:		
			- Snc	SEM		QUEC			F	PRESERV	ATIVE			-			
SAM	IPLE	SAMPLE IDENTIFICATION		ono/	œ	ONA	None									REMARKS	
DATE	TIME			S	AIR	ž			NUMBER OF	CONTA	INERS SUB	MITTED					
-3-20	0950	NEG-20-01-SW-Secluded Lake(I)	X				2										
11	10100	NEG-20-01-SW-Creek 2 N(I)	X				2										
-3-20 " "	10110	NEG-20-01-SW-Hole 2 Pond(I)	X				2										
11	10:15	NEg-20-01-SW-Creek 1 N(I)	X				2				10000000						
	10120	NEG-20-01-5W-Mine Pond(I)	X				2										
	10:40	NEG-20-01-SW-Cemetery Pond(I)	X				2			-					-		
	-	NEG-20-01-SW-Creek-1-NN(t)	7				2			-	240-1246	07 Chain of	Custody				
(1	10:50	NEG-20-01- DW- 65/0 Thin Jane N	12(2)					2									
		NEG-20-01-	1														
		NEG-20-01-															_
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## PERFLUOROALKYL AND POLYFLUOROALKYL SUBSTANCES (PFAS) MINIMUM LABORATORY ANALYTE LIST

Below is the minimum laboratory PFAS analyte list for analysis of deer, drinking water, groundwater, surface water, soil, wastewater effluent, and landfill leachate samples collected by Michigan's Departments of Environment, Great Lakes, and Energy, Health and Human Services, Agriculture and Rural Development, and Natural Resources.

This minimum analyte list was developed based on the potential for these chemicals to be found in Michigan, the availability of the chemical standards used for testing, and the ability of available laboratories to test for these PFAS. This list includes PFAS that can be tested for in drinking water using United States Environmental Protection Agency (USEPA) Methods 537 Rev.1.1 or 537.1, which are the only methods that should be used when analyzing drinking water samples. Other testing methodology may be used to test for PFAS in other media (not drinking water). This list is not exhaustive of PFAS in Michigan's environment.

A fish icon () precedes those compounds that are also currently being tested for in fish tissue.

Analyte Name	Acronym	Fluorinated Carbon Chain Length	Molecular Formula	CAS Number	USEPA Method 537 Rev. 1.1	USEPA Method 537.
Perfluorotetradecanoic acid	PFTeA	C14	C <sub>13</sub> F <sub>27</sub> COOH	376-06-7	×	X
Perfluorotridecanoic acid	PFTriA	C <sub>13</sub>	C <sub>12</sub> F <sub>25</sub> COOH	72629-94-8	×	X
➤ Perfluorododecanoic acid	PFDoA	C <sub>12</sub>	C <sub>11</sub> F <sub>23</sub> COOH	307-55-1	×	x
➤ Perfluoroundecanoic acid	PFUnA	C11	C <sub>10</sub> F <sub>21</sub> COOH	2058-94-8	×	Х
➤ Perfluorodecanoic acid	PFDA	C <sub>10</sub>	C <sub>9</sub> F <sub>19</sub> COOH	335-76-2	×	X
► Perfluorononanoic acid	PFNA	C <sub>9</sub>	C <sub>8</sub> F <sub>17</sub> COOH	375-95-1	×	X
➤ Perfluorooctanoic acid	PFOA	Ca	C <sub>7</sub> F <sub>15</sub> COOH	335-67-1	x	×
➤ Perfluoroheptanoic acid	PFHpA	C7	C <sub>6</sub> F <sub>13</sub> COOH	375-85-9	×	×
➤ Perfluorohexanoic acid	PFHxA	C <sub>6</sub>	C <sub>5</sub> F <sub>11</sub> COOH	307-24-4	×	×
➤ Perfluoropentanoic acid	PFPeA	C <sub>5</sub>	C <sub>4</sub> F <sub>9</sub> COOH	2706-90-3		
➤ Perfluorobutanoic acid	PFBA	C <sub>4</sub>	C₃F7COOH	375-22-4		
Perfluorodecanesulfonic acid	PFDS	C10	C10F21SO3H	335-77-3		

13

Michigan gov/PFASResponse

4101 Shuffel Street NW

#### Chain of Custody Pocord

eurofins

Other:

Environment Testing TestAmerica

M - Hexane N - None O - AsNaO2 F-Na2045 Q - Na2SO3 R - Na2S2O3 S-H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)

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North Canton, OH 44720 Phone: 330-497-9396 Fax: 330-497-0772	Chain of C	Sustody Record		
Client Information (Sub Contract Lab)	Sampler:	Lab PM: Brooks, Kris M	Carrier Tracking Nots):	COC No. 240-116006.1
Client Contact Shipping/Receiving	Phone:	E-Mail: kris.brooks@testamericainc.com	State of Origin: Michigan	Page: Page 1 of 1
Company. TestAmerica Laboratories, Inc.		Accreditations Required (See note	(1):	Job #: 240-124607-1
Address: 880 Riverside Parkway,	Due Date Requested: 1/23/2020	Ana	lysis Requested	Preservation Codes
City: West Sacramento	TAT Requested (days):			B - NaOH N C - Zn Acetate O
State, Zip: CA, 95605		181 (28		D - Nitric Acid P E - NaHSO4 Q F - MeOH R
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO#.	No)		G - Amchilor S H - Ascorbic Acid T
Email:	WO #:	No. No.		J- Di Water V
Project Name: NE Gravel	Project # 24023890	e (Ves or IO) FAS, Stand		K-EDTA W

SSOW#:

Number Sample Matrix Type (W=water, 3=soli Total Sample (C=comp, D=waste/oil. Special Instructions/Note: Sample Identification - Client ID (Lab ID) Sample Date Time G=grab) BT-Tissue, A-As Preservation Code: 09:50 NEG-20-01-SW-SECLUDED LAKE (I) (240-124607-1) 1/3/20 Water Eastern NEG-20-01-SW-CREEK 2 N(I) (240-124607-2) 1/3/20 Water Eastern NEG-20-01-SW-HOLE 2 POND(I) (240-124607-3) 1/3/20 Water X Eastern 10:15 X 2 NEG-20-01-SW-CREEK 1 N(I) (240-124607-4) 1/3/20 Water Eastern 10:20 NEG-20-01-SW-MINE POND(I) (240-124607-5) 1/3/20 Water X Eastern 10:40 2 X NEG-20-01-SW-CEMETERY POND(I) (240-124607-6) 1/3/20 Water Eastern

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica (aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification			Sample Disposal ( A fee may be asse	essed if samples are retained longer th	an 1 month)
Unconfirmed			Return To Client Disp	osal By Lab Archive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2		Special Instructions/QC Requirements:		
Empty Kit Relinquished by:	Date:		Time:	Method of Shipment.	
Relinquished by:	Date/Time: 1-7-20 1515	240	Received by:	Date/Time: 1/8/20 - 9256	ETA-SA
Relinguished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by.	Date/Time,	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Custody Seal No.:			Cooler Temperature(s) C and Other Rema	ORS 0-5 Con C	9

Ver: 01/16/2019



















#### Login Sample Receipt Checklist

Client: Fishbeck Thompson Carr & Huber Inc

List Source: Eurofins TestAmerica, Sacramento

List Creation: 01/08/20 11:25 AM

Job Number: 240-124607-1

Login Number: 124607 List Number: 2

Creator: Guzman, Juan

Creator: Guzman, Juan		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	obs 0.5 corr 0.9
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	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
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	

Job:

### Sacramento Sample Receiving Notes

### Environment Testing TestAmerica



240-124607 Field Sheet

Tracking # :	1103-6	126-4456

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier GSO / OnTrac / Goldstreak / USPS / Other\_\_\_\_\_

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Notes:	Therm. ID: <u>A k-11</u> Corr. Factor: (+/-) <u>0-4</u> °C  Ice Wet Gel Other
	Cooler Custody Seal:
	Cooler ID:
	Temp Observed: <u>0 - 5</u> °C Corrected: <u>0 - 9</u> °C  From: Temp Blank D Sample D
	During Initial Triage <u>Yes No NA</u>
	Cooler compromised/tampered with?
	Cooler Temperature is acceptable?
	CoC is complete w/o discrepancies?
	Samples received within holding time?   □   □
	Initials: 34 Date: 1/8/26
	During Labeling Yes No NA
	Samples compromised/tampered with?
	Sample containers have legible labels?
	Sample custody seal?
	Containers are not broken or leaking?
	Sample date/times are provided?
	Appropriate containers are used?
	Sample bottles are completely filled?
	Sample preservatives verified?
	Samples w/o discrepancies?
	Zero headspace?*
	Alkalinity has no headspace?
	Perchlorate has headspace? D D D (Methods 314, 331, 6850)
	Multiphasic samples are not present?
	NCM Filed
	Initials: 54 Date: 1/8/20
	*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

W3-E

Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water Prep Type: Total/NA

			Perc	ent Isotope	Dilution Re	covery (Ac	ceptance L	imits)	
		PFBA	PFPeA	PFHxA	PFHpA	PFOA	PFNA	PFDA	PFUnA
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)
240-124607-1	NEG-20-01-SW-SECLUDED LA	78	91	98	98	94	99	90	97
240-124607-2	NEG-20-01-SW-CREEK 2 N(I)	79	93	99	99	96	93	87	79
240-124607-3	NEG-20-01-SW-HOLE 2 POND(I)	66	90	92	95	95	98	87	92
240-124607-4	NEG-20-01-SW-CREEK 1 N(I)	84	95	99	101	97	93	88	79
240-124607-5	NEG-20-01-SW-MINE POND(I)	80	93	95	94	94	89	78	84
240-124607-6	NEG-20-01-SW-CEMETERY POND(I)	80	97	97	96	97	93	91	80
LCS 320-351088/2-A	Lab Control Sample	104	100	100	99	99	98	89	96
LCSD 320-351088/3-A	Lab Control Sample Dup	106	96	100	102	95	94	85	81
MB 320-351088/1-A	Method Blank	99	96	97	98	99	88	79	75
			Perc	ent Isotope	Dilution Re	covery (Ac	ceptance L	imits)	
		PFDoA	PFTDA	PFHxS	PFOS	PFOSA		-NEtFOSA	M262FTS
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)
240-124607-1	NEG-20-01-SW-SECLUDED LA	87	44	107	108	122	107	112	101
240-124607-2	NEG-20-01-SW-CREEK 2 N(I)	81	76	105	101	123	106	106	88
240-124607-3	NEG-20-01-SW-HOLE 2	82	65	102	106	126	101	113	95
240-124607-4	POND(I) NEG-20-01-SW-CREEK 1 N(I)	84	74	106	100	117	102	107	80
240-124607-5	NEG-20-01-SW-MINE POND(I)	85	70	102	100	114	100	102	79
240-124607-6	NEG-20-01-SW-CEMETERY POND(I)	88	79	106	104	125	106	108	84
LCS 320-351088/2-A	Lab Control Sample	87	72	109	105	124	115	106	82
LCSD 320-351088/3-A	Lab Control Sample Dup	96	83	110	108	127	113	114	83
MB 320-351088/1-A	Method Blank	90	86	104	101	117	100	101	81
			Doro	ent leotone	Dilution Re	covery (Ac	ceptance L	imite)	
		M282FTS			3C3-PFB	covery (Ac	ceptance L	iiiiiisj	
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(25-150)				
240-124607-1	NEG-20-01-SW-SECLUDED LA	86	97	88	108				
240-124607-2	NEG-20-01-SW-CREEK 2 N(I)	80	84	104	102				
240-124607-3	NEG-20-01-SW-HOLE 2 POND(I)	93	84	76	102				
240-124607-4	NEG-20-01-SW-CREEK 1 N(I)	71	82	83	106				
240-124607-5	NEG-20-01-SW-MINE POND(I)	72	82	81	102				
240-124607-6	NEG-20-01-SW-CEMETERY POND(I)	79	80	85	105				
LCS 320-351088/2-A	Lab Control Sample	75	84	116	108				
LCSD 320-351088/3-A	Lab Control Sample Dup	79	78	83	109				
MB 320-351088/1-A	Method Blank	77	70	87	101				
Surrogate Legend									

Suri	rogat	e Leg	jend

PFBA = 13C4 PFBA

PFPeA = 13C5 PFPeA

PFHxA = 13C2 PFHxA

PFHpA = 13C4 PFHpA

PFOA = 13C4 PFOA

PFNA = 13C5 PFNA

PFDA = 13C2 PFDA

PFUnA = 13C2 PFUnA

PFDoA = 13C2 PFDoA

PFTDA = 13C2 PFTeDA

Eurofins TestAmerica, Canton

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Job ID: 240-124607-1

#### **Isotope Dilution Summary**

Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

PFHxS = 1802 PFHxS PFOS = 13C4 PFOS PFOSA = 13C8 FOSA

d3-NMeFOSAA = d3-NMeFOSAA

d5-NEtFOSAA = d5-NEtFOSAA

M262FTS = M2-6:2 FTS

M282FTS = M2-8:2 FTS

M242FTS = M2-4:2 FTS

HFPODA = 13C3 HFPO-DA

13C3-PFBS = 13C3 PFBS

Job ID: 240-124607-1

Eurofins TestAmerica, Canton



# **Environment Testing TestAmerica**

## ANALYTICAL REPORT

Eurofins TestAmerica, Canton 4101 Shuffel Street NW North Canton, OH 44720 Tel: (330)497-9396

Laboratory Job ID: 240-124607-2 Client Project/Site: NE Gravel 181258

Revision: 1

For:

Fishbeck Thompson Carr & Huber Inc 1515 Arboretum Drive SE Grand Rapids, Michigan 49546

Attn: Dan Greene

Authorized for release by: 2/4/2020 7:02:22 PM

Hus Brooks

Kris Brooks, Project Manager II (330)966-9790

kris.brooks@testamericainc.com

.....LINKS

Review your project results through

Have a Question?



Visit us at: www.testamericainc.com 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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#### **Case Narrative**

Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

Job ID: 240-124607-2

Job ID: 240-124607-2

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative 240-124607-2

#### Comments

Revised 2/4/20: The sample ID was updated in the subcontract report.

Method 537.1 was subcontracted to Eurofins Eaton and a copy of their report in included.

#### Receipt

The samples were received on 1/7/2020 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0° C.

## **Method Summary**

Client: Fishbeck Thompson Carr & Huber Inc

Project/Site: NE Gravel 181258

Job ID: 240-124607-2

Method	Method Description	Protocol	Laboratory
Subcontract	537.1 Drinking water PFAS (list of 18)	None	Eurofin SB

**Protocol References:** 

None = None

Laboratory References:

Eurofin SB = Eurofins Eaton Analytical, 110 S Hill Street, South Bend, IN 46617

Eurofins TestAmerica, Canton

## **Sample Summary**

Client: Fishbeck Thompson Carr & Huber Inc Project/Site: NE Gravel 181258

Job ID: 240-124607-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID	
240-124607-7	NEG-20-01-DW-6510 THIMBLEWEED LANE N-(	Water	01/03/20 10:50	01/07/20 09:20		



6

#### LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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#### STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN00035	New Jersey*	IN598
Colorado Radiochemistry	IN00035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074
Illinois*	200001	Pennsylvania*	68-00466
Illinois Microbiology	17767	Puerto Rico	IN00035
Illinois Radiochemistry	IN00035	Rhode Island	LAO00343
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
lowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-18-12
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA014	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	460275
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
EPA	IN00035		

\*NELAP/TNI Recognized Accreditation Bodies

Revision date: 03/14/2019



110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

## Laboratory Report

Client: TestAmerica - Canton

Kris Brooks

Attn:

con unichoa canton

4101 Shuffel Street NW

North Canton, OH 44720

474986

Report: Priority:

Standard Written

Status:

Final

PWS ID: Not Supplied

	Sa	mple Information			
EEA ID#	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4531267	NEG-20-01-DW-6510	537.1	01/03/20 10:50	Client	01/08/20 08:30

#### Report Summary

Note: Sample containers were provided by the client. NOTE: TA Job 240-124607

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Kelly Blackburn at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Kelly Blackburn ASA

01/13/2020

Date

Client Name:

Authorized Signature

TestAmerica - Canton

Report #:

474986

Page 1 of 3

Title

Client Name:

TestAmerica - Canton

Report #: 474986

Sampling Point: NEG-20-01-DW

PWS ID: Not Supplied

	EEA Methods								
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID#
335-67-1	Perfluorooctanoic acid (PFOA)	537.1		2.0	< 2.0	ng/L	01/09/20 08:22	01/10/20 08:06	4531267
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1		2.0	< 2.0	ng/L	01/09/20 08:22	01/10/20 08:06	4531267
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1	- 2 <del>2-1</del>	2.0	4.2	ng/L	01/09/20 08:22	01/10/20 08:06	4531267
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	100	2.0	< 2.0	ng/L	01/09/20 08:22	01/10/20 08:06	4531267
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1	-	2.0	2.1	ng/L	01/09/20 08:22	01/10/20 08:06	4531267
375-95-1	Perfluorononanoic acid (PFNA)	537.1		2.0	< 2.0	ng/L	01/09/20 08:22	01/10/20 08:06	4531267
335-76-2	Perfluorodecanoic acid (PFDA)	537.1	. I. <del></del>	2.0	< 2.0	ng/L	01/09/20 08:22	01/10/20 08:06	4531267
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1		2.0	< 2.0	ng/L	01/09/20 08:22	01/10/20 08:06	4531267
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1	7222	2.0	< 2.0	ng/L	01/09/20 08:22	01/10/20 08:06	4531267
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	537.1	( <del>)</del>	2.0	< 2.0	ng/L	01/09/20 08:22	01/10/20 08:06	4531267
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1		2.0	< 2.0	ng/L	01/09/20 08:22	01/10/20 08:06	4531267
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid	537.1	722	2.0	< 2.0	ng/L	01/09/20 08:22	01/10/20 08:06	4531267
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid	537.1		2.0	< 2.0	ng/L	01/09/20 08:22	01/10/20 08:06	4531267
13252-13-6	HFPO-DA/GenX	537.1		2.0	< 2.0	ng/L	01/09/20 08:22	01/10/20 08:06	4531267
958445-44-8	ADONA	537.1	7.22	2.0	< 2.0	ng/L	01/09/20 08:22	01/10/20 08:06	4531267
73606-19-6	9CI-PF3ONS/F-53B Major	537.1	0	2.0	< 2.0	ng/L	01/09/20 08:22	01/10/20 08:06	4531267
83329-89-9	11CI-PF3OUdS/F-53B Minor	537.1		2.0	< 2.0	ng/L	01/09/20 08:22	01/10/20 08:06	4531267
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1	Tana (	2.0	< 2.0	ng/L	01/09/20 08:22	01/10/20 08:06	4531267

<sup>†</sup> EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	Λ.	T.

TestAmerica - Canton Report #: 474986

Client Name:

#### Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

**Internal Standards (IS)** - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

**Laboratory Duplicate (LD)** - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

**Laboratory Fortified Blank (LFB)** / **Laboratory Control Sample (LCS)** - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

**Surrogate Standard (SS)** / **Surrogate Analyte (SUR)** - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

#### Eurofins TestAmerica, Canton

4101 Shuffel Street NW

North Canton, OH 44720 Phone: 330-497-9396 Fax: 330-497-0772

### **Chain of Custody Record**



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200 17 | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:				PM.	, Kris	s M				Ca	rier Tra	king N	0(5)			COC No: 240-116005.1			
Client Contact: Shipping/Receiving	Phone:			E-N kri:		ooks	@testame	ricainc.	com		f fire.	te of Ori chigan	gin:				Page: Page 1 of 1			
Company: Eurofins Eaton Analytical				1			ations Requ				1						Job #: 240-124607-1			
Address: 110 S Hill Street.	Due Date Request 1/27/2020	ed:			Analysis Re							equested					Preservation Codes:			
City: South Bend	TAT Requested (d	ays);			1		5		ΤÍ	T	T		1				A - HCL B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2		
State, Zip: IN, 46617							3)1/537										D - Nitric Acid E - NaHSO4	P - Na2O4S O - Na2SO3		
Phone:	PO#:				٦		St of 18		Ш								F - MeOH G - Amehlor H - Ascerbic Acid	R - Na2S2O3 S - H2SO4 T - TSP Dodes	cabudrate	
Email:	WØ#:				or No	(o)	AS (III										J - Ice J - DI Water	U - Acetone V - MCAA	ean yan atte	
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Sample Identification - Client ID (Lab ID)	Sample Date	Time		ation Code:	X	Ż	s a	300		201						Ż	Special in	structions/N	ote:	
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Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica maintain accreditation in the State of Origin listed above for analysis/tests/matrix TestAmerica attention immediately. If all requested accreditations are current to	being analyzed, the	samples must	be shipped by	ack to the Eur	ofins 1	TestA	menca labo	ratory or o	other ins	es. This	s samp	e shipm	ent is f	orwarde y chang	ed unde	er chai	n-of-custody. If the tation status should	aboratory does be brought to Er	nat currently urofins	
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# PERFLUOROALKYL AND POLYFLUOROALKYL SUBSTANCES (PFAS) MINIMUM LABORATORY ANALYTE LIST

Below is the minimum laboratory PFAS analyte list for analysis of deer, drinking water, groundwater, surface water, soil, wastewater effluent, and landfill leachate samples collected by Michigan's Departments of Environment, Great Lakes, and Energy, Health and Human Services, Agriculture and Rural Development, and Natural Resources.

This minimum analyte list was developed based on the potential for these chemicals to be found in Michigan, the availability of the chemical standards used for testing, and the ability of available laboratories to test for these PFAS. This list includes PFAS that can be tested for in drinking water using United States Environmental Protection Agency (USEPA) Methods 537 Rev.1.1 or 537.1, which are the only methods that should be used when analyzing drinking water samples. Other testing methodology may be used to test for PFAS in other media (not drinking water). This list is not exhaustive of PFAS in Michigan's environment.

A fish icon () precedes those compounds that are also currently being tested for in fish tissue.

	Analyte Name	Acronym	Fluorinated Carbon Chain Length	Molecular Formula	CAS Number	USEPA Method 537 Rev. 1.1	USEPA Method 537.1
-	Perfluorotetradecanoic acid	PFTeA	C14	C <sub>13</sub> F <sub>27</sub> COOH	376-06-7	×	X
-	Perfluorotridecanoic acid	PFTriA	C <sub>13</sub>	C <sub>12</sub> F <sub>25</sub> COOH	72629-94-8	×	X
-	Perfluorododecanoic acid	PFDoA	C <sub>12</sub>	C <sub>11</sub> F <sub>23</sub> COOH	307-55-1	×	X
-	Perfluoroundecanoic acid	PFUnA	C <sub>11</sub>	C <sub>10</sub> F <sub>21</sub> COOH	2058-94-8	×	X
-	Perfluorodecanoic acid	PFDA	C <sub>10</sub>	C <sub>9</sub> F <sub>19</sub> COOH	335-76-2	×	X
-	Perfluorononanoic acid	PFNA	C <sub>9</sub>	C <sub>8</sub> F <sub>17</sub> COOH	375-95-1	×	X
-	Perfluorooctanoic acid	PFOA	Ca	C <sub>7</sub> F <sub>15</sub> COOH	335-67-1	×	X
-	Perfluoroheptanoic acid	PFHpA	C7	C <sub>6</sub> F <sub>13</sub> COOH	375-85-9	×	X
-	Perfluorohexanoic acid	PFHxA	C <sub>6</sub>	C <sub>5</sub> F <sub>11</sub> COOH	307-24-4	x	×
-	Perfluoropentanoic acid	PFPeA	C <sub>5</sub>	C <sub>4</sub> F <sub>9</sub> COOH	2706-90-3		
-	Perfluorobutanoic acid	PFBA	C <sub>4</sub>	C <sub>3</sub> F <sub>7</sub> COOH	375-22-4		
	Perfluorodecanesulfonic acid	PFDS	C10	C10F21SO3H	335-77-3		



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19. SAMPLE PRESE	RVATION					
Sample(s)				were fi	urther preserv	ed in the laboratory.
Time preserved:	Preservative(s)	added/Lot number(s	):			
VOA Sample Preservat	ion - Date/Time VOAs	Frozen:				