Massachusetts Department of Environmental Protection - Drinking Water Program **PFAS**

Per- and Polyfluoroalkyl Substances (PFAS) Report

I. PWS INFORMATION: Please refer to your MassDEP Water Quality Sampling Schedule (WQSS) to help complete this form

PWS ID #: 4244001 City / Town: Randolph

PWS Name: Randolph Holbrook Joint Water Board PWS Class: COM ☒ NTNC ☐ TNC ☐

MassDEP Location (LOC) ID#	MassDEP Location Name	Sample Information		Date Collected	Collected By
10296	Finished Water	☐ (M)ultiple ☒ (S)ingle	☐ (R)aw ☒ (F)inished	05/10/2021	Paul Hennessy

Routine or Special Sample	Original, Resubmitted or Confirmation Report	If Resubmitted Report, list below:	
		(1) Reason for Resubmission	(2) Collection Date of Original Sample
☒ RS ☐ SS	☒ Original ☐ Resubmitted ☐ Confirmation	☐ Resample ☐ Reanalysis ☐ Report Correction	

SAMPLE COMMENTS - Such as, if a Manifold/Multiple sample, list the source(s) that were on-line during sample collection or if this is a field reagent blank

II. ANALYTICAL LABORATORY INFORMATION:

Primary Lab Cert. #: M-MA022 Primary Lab Name: Analytical Balance Subcontracted? (Y/N) Y

Analysis Lab Cert. #: M-IN035 Analysis Lab Name: EEA

If Analysis Lab is not certified by MassDEP or U.S. EPA, list certification authority:

Lab Method	Date Extracted	Date Analyzed	Dilution Factor	Lab Sample IDs#	
EPA 537.1	05/14/2021	05/15/2021	0.91	Primary Lab:	2105237-01
				Subcontracted Lab:	4898389

CAS#	REGULATED PFAS CONTAMINANTS	Result[1] ng/L	Result[2] Qualifier	MCL* ng/L	MDL ng/L	MRL ng/L
1763-23-1	Perfluorooctane Sulfonic Acid (PFOS)	**8.5**			**0.40**	**2.0**
335-67-1	Perfluorooctanoic Acid (PFOA)	**5.2**			**0.40**	2.0
355-46-4	Perfluorohexane Sulfonic Acid (PFHxS)	**2.5**			0.50	2.0
375-95-1	Perfluorononanoic Acid (PFNA)	**0.88**	**J**	-	0.50	2.0
375-85-9	Perfluorohepatanoic Acid (PFHpA)	**2.3**			0.40	2.0
335-76-2	Perfluorodecanoic acid (PFDA)	**ND**			0.50	2.0
	PFAS6 (sum of PFOS, PFOA, PFHxS, PFNA, PFHpA and PFDA; only include Results at or above the MRL; do not include estimated Results as described by a Result Qualifier in the next column) =	**19**	–	**20**	-	-
	UNREGULATED PFAS CONTAMINANTS					
375-73-5	Perfluorobutane sulfonic acid (PFBS)	**2.3**			0.40	**2.0**
307-55-1	Perfluorododecanoic acid (PFDoA)	**ND**			0.40	**2.0**
307-24-4	Perfluorohexanoic acid (PFHxA)	**3.1**			0.40	2.0
376-06-7	Perfluorotetradecanoic acid (PFTA)	**ND**			0.60	2.0
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	**ND**			0.50	2.0
2058-94-8	Perfluoroundecanoic acid (PFUnA)	**ND**			0.50	2.0
2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**ND**		-	**0.60**	
2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	**ND**			0.50	
763051-92-9	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	**ND**			0.50	
756426-58-1	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	**ND**			0.50	
919005-14-4	4,8-dioxa-3H-perfluorononanoic acid (ADONA)	**ND**			**0.61**	
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPO-DA)	**ND**			0.50	

[1] A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL.
[2] All qualifiers must be described under Lab Analysis Comments on page 2.

Massachusetts Department of Environmental Protection - Drinking Water Program

PFAS

Per- and Polyfluoroalkyl Substances (PFAS) Report

PWS ID#: **4244001**

Lab Sample ID#:

Primary Lab:	2105237-01
Subcontracted Lab:	4898389

CAS#	UNREGULATED PFAS CONTAMINANTS	Result[1] ng/L	Result[2] Qualifier	MCL * ng/L	MDL ng/L	MRL ng/L

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
$^{13}C_2$-PFHxA	99	
$^{13}C_2$-PFDA	90	
d_5-NEtFOSAA	88	
$^{13}C_3$-HFPO-DA	100	

Note: $^{13}C_3$-HFPO-DA is not required for EPA Method 537 v1.1

In addition to the SUR above you must attach the results of the ongoing QC results as specified by the method for the sample's extraction batch.

☒ **Laboratory analytical report with QC attached (check one item below).**

☒ All associated QC criteria reported within control limits including Lab Reagent/Method Blank (LRB), Field Reagent Blank (FRB), Surrogate Standards (SUR), Laboratory Fortified Blank (LFB), Matrix Spike/Duplicate (LFSM/LFSMD or FD) and RPD.

☐ All associated sample and/or QC batch criteria not met. See Lab Analysis Comments below and narrative in attached report.

Lab Analysis Comments: (include sample/method parameters outside of or affecting QC controls/limits and result qualifiers)

Result Qualifier	Qualifier Description
J	**The target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit.**
Other Analysis Comments:	

* MCL or proposed MCL

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Authorized Laboratory Signature: Nellie da Costa

Date: 06/29/2021

If not submitting these results electronically, mail TWO copies of this report to your MassDEP Regional Office no later than 10 days after the end of the month in which you received this report or no later than 10 days after the end of the reporting period, whichever is sooner. Note that during the Massachusetts COVID-19 state of emergency, in addition to submitting by mail reports may be emailed to program.director-dwp@mass.gov.

MassDEP REVIEW STATUS (Initial & Date)			
☐ Accepted _____ ☐ Disapproved	Review Comments		☐ WQTS Data Entered

Balance
ATION

CHAIN OF CUSTODY

422 West Grove Street
Middleboro, MA 02346
Ph. (508) 946-2225
Fax (508) 946-3335
Lab I.D. #M-MA022

HOLBROOK
ANKLIN ST
, MA
02343
37

Project Name: PF

Collected by: PAUL HENNESSY

PWS ID - 4244001

POPULATION SERVED - 45,397

I.D. Matrix	I.D. Pres.	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	ANALYSIS REQUIRED: PFC	TURNAROUND TIME
DW	✓		✓	FINISHED WATER - CHLORINATED	2	✓	
FB	✓			FIELD BLANK - NOT CHLORINATED	1		

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT.

RECEIVED BY: (Signature)	DATE	TIME
Alyson Pierce Rowe	5/10/21	12:20 P.
RECEIVED FOR LABORATORY BY: (Signature)	**DATE**	**TIME**
Amanda M	5/10	1328

LAB COMMENTS

SHIPPING CONDITIONS: (Check One) ☒ Iced ☐ Ambient

TEMPERATURE: _____ °C Lowest _____ °C Highest 6 °C Receipt

CONTAMINATION LEVEL

L — LOW (NO ODOR) H — HIGH
M — MEDIUM U — UNKNOWN

MENT
GE
RDOUS WASTE
TE WATER
WATER

TURN-AROUND TIME (TAT)

NORMAL (7–10 Working Days)

- TAT begins when sample is received at test facility.
- TAT for samples received after 4 p.m. will begin on the next business day.
- All TAT's are subject to laboratory approval and customer consent.

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.

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(Primary AB)*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon*	4156
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
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187
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: 09/29/2020

LABORATORY CASE NARRATIVE

Client: Analytical Balance Corporation

Report #: 517561CN

All method QC was within acceptance limits.

Pat Mayoff ASM 05/25/2021

Authorized Signature Title Date

eurofins | Eaton Analytical

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

Laboratory Report

Client: Analytical Balance Corporation

Attn: Amanda Cronin
422 West Grove Street
Middleboro, MA 02346

Report: 517561
Priority: Standard Written
Status: Final
PWS ID: MA4244001

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4898389	2105237-01	537.1	05/10/21 10:00	Client	05/11/21 08:30
4898390	2105237-01 FTB	537.1	05/10/21 10:00	Client	05/11/21 08:30

Report Summary

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 Pat Muff at (574) 233-4777.

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

Pat Muff ASM

Authorized Signature | Title | 05/25/2021 Date

Client Name: Analytical Balance Corporation
Report #: 517561

Client Name: Analytical Balance Corporation

Report #: 517561

Sampling Point: 2105237-01

PWS ID: MA4244001

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	**5.2**	ng/L	05/14/21 08:06	05/15/21 20:14	4898389
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1	---	2.0	**8.5**	ng/L	05/14/21 08:06	05/15/21 20:14	4898389
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1	---	2.0	**2.3**	ng/L	05/14/21 08:06	05/15/21 20:14	4898389
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	---	2.0	**2.3**	ng/L	05/14/21 08:06	05/15/21 20:14	4898389
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1	---	2.0	**2.5**	ng/L	05/14/21 08:06	05/15/21 20:14	4898389
375-95-1	Perfluorononanoic acid (PFNA)	537.1	---	2.0	**0.88 J**	ng/L	05/14/21 08:06	05/15/21 20:14	4898389
335-76-2	Perfluorodecanoic acid (PFDA)	537.1	---	2.0	< 2.0	ng/L	05/14/21 08:06	05/15/21 20:14	4898389
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1	---	2.0	**3.1**	ng/L	05/14/21 08:06	05/15/21 20:14	4898389
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1	---	2.0	< 2.0	ng/L	05/14/21 08:06	05/15/21 20:14	4898389
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	537.1	---	2.0	< 2.0	ng/L	05/14/21 08:06	05/15/21 20:14	4898389
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1	---	2.0	< 2.0	ng/L	05/14/21 08:06	05/15/21 20:14	4898389
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1	---	2.0	< 2.0	ng/L	05/14/21 08:06	05/15/21 20:14	4898389

Sampling Point: 2105237-01 FTB

PWS ID: MA4244001

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	05/18/21 06:50	05/19/21 00:59	4898390
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1	---	2.0	< 2.0	ng/L	05/18/21 06:50	05/19/21 00:59	4898390
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1	---	2.0	< 2.0	ng/L	05/18/21 06:50	05/19/21 00:59	4898390
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	---	2.0	< 2.0	ng/L	05/18/21 06:50	05/19/21 00:59	4898390
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1	---	2.0	< 2.0	ng/L	05/18/21 06:50	05/19/21 00:59	4898390
375-95-1	Perfluorononanoic acid (PFNA)	537.1	---	2.0	< 2.0	ng/L	05/18/21 06:50	05/19/21 00:59	4898390
335-76-2	Perfluorodecanoic acid (PFDA)	537.1	---	2.0	< 2.0	ng/L	05/18/21 06:50	05/19/21 00:59	4898390
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1	---	2.0	< 2.0	ng/L	05/18/21 06:50	05/19/21 00:59	4898390
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1	---	2.0	< 2.0	ng/L	05/18/21 06:50	05/19/21 00:59	4898390
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	537.1	---	2.0	< 2.0	ng/L	05/18/21 06:50	05/19/21 00:59	4898390
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1	---	2.0	< 2.0	ng/L	05/18/21 06:50	05/19/21 00:59	4898390
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1	---	2.0	< 2.0	ng/L	05/18/21 06:50	05/19/21 00:59	4898390

† 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:	*	^	!

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.

If applicable, the calculation of the matrix spike (MS) or matrix spike duplicate (MSD) percent recovery is as follows: (MS or MSD value - Sample value) * 100 / spike target / dilution factor = **Recovery %**

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.

Massachusetts Department of Environmental Protection - Drinking Water Program

Per- and Polyfluoroalkyl Substances (PFAS) Report

PFAS

I. PWS INFORMATION: Please refer to your MassDEP Water Quality Sampling Schedule (WQSS) to help complete this form

PWS ID #: 4244001 **City / Town:**

PWS Name: Randolph Holbrook **PWS Class:** COM [X] NTNC [ ] TNC [ ]

MassDEP LOCATION (LOC) ID#	MassDEP Location Name	Sample Information	Date Collected	Collected By
		[ ] (M)ultiple [ ] (R)aw [ ] (S)ingle [ ] (F)inished	05/10/21	P. Hennessey

Routine or Special Sample	Original, Resubmitted or Confirmation Report	If Resubmitted Report, list below: (1) Reason for Resubmission	(2) Collection Date of Original Sample
[ ] RS [ ] SS	[ ] Original [ ] Resubmitted [ ] Confirmation	[ ] Resample [ ] Reanalysis [ ] Report Correction	

SAMPLE COMMENTS - Such as, if a Manifold/Multiple sample, list the source(s) that were on-line during sample collection or if this is a field reagent blank

II. ANALYTICAL LABORATORY INFORMATION:

Primary Lab Cert. #: **Primary Lab Name:** **Subcontracted? (Y/N)** Y

Analysis Lab Cert. #: M-IN035 **Analysis Lab Name:** EEA

If Analysis Lab is not certified by MassDEP or U.S. EPA, list certification authority:

Lab Method	Date Extracted	Date Analyzed	Dilution Factor	Lab Sample IDs#	
537.1	05/14/2021	05/15/2021	0.91	Primary Lab:	4898389
				Subcontracted Lab:	

CAS#	REGULATED PFAS CONTAMINANTS	Result [1] ng/L	Result [2] Qualifier	MCL* ng/L	MDL ng/L	MRL ng/L
1763-23-1	Perfluorooctane Sulfonic Acid (PFOS)	**8.5**			0.40	2.0
335-67-1	Perfluorooctanoic Acid (PFOA)	**5.2**			0.40	2.0
355-46-4	Perfluorohexane Sulfonic Acid (PFHxS)	**2.5**		-	0.50	2.0
375-95-1	Perfluorononanoic Acid (PFNA)	**0.88**	J		0.50	2.0
375-85-9	Perfluoroheptanoic Acid (PFHpA)	**2.3**			0.40	2.0
335-76-2	Perfluorodecanoic Acid (PFDA)	ND			0.50	2.0
	PFAS6 (sum of PFOS, PFOA, PFHxS, PFNA, PFHpA and PFDA; only include Results at or above the MRL; do not include estimated Results as described by a Result Qualifier in the next column) =	**ND**	---	**20**	---	---
	UNREGULATED PFAS CONTAMINANTS					
375-73-5	Perfluorobutane Sulfonic Acid (PFBS)	**2.3**			0.40	2.0
307-55-1	Perfluorododecanoic Acid (PFDoA)	ND			0.40	2.0
307-24-4	Perfluorohexanoic Acid (PFHxA)	**3.1**			0.40	2.0
376-06-7	Perfluorotetradecanoic Acid (PFTA)	ND			0.60	2.0
72629-94-8	Perfluorotridecanoic Acid (PFTrDA)	ND			0.50	2.0
2058-94-8	Perfluoroundecanoic Acid (PFUnA)	ND			0.50	2.0
2991-50-6	N-Ethyl Perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		-	0.6	
2355-31-9	N-Methyl Perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND			0.5	
763051-92-9	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid(11Cl-PF3OUdS)	ND			0.5	
756426-58-1	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	ND			0.5	
919005-14-4	4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND			0.61	
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND			0.5	

[1] A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL.
[2] All qualifiers must be described under Lab Analysis Comments on page 2.

Rev. 9-9-2020

Lab Report #: 517561

Per- and Polyfluoroalkyl Substances (PFAS) Report

PWS ID #: 4244001

Lab Sample ID #:

Lab Report #:	517561
Primary Lab:	4898389
Subcontracted Lab:	

CAS#	UNREGULATED PFAS CONTAMINANTS	Result [1] ng/L	Result [2] Qualifier	MCL* ng/L	MDL ng/L	MRL ng/L
				-		

Surrogate Name	% Recovery (70-130%)	Alternate Surrogate (must document reason for change)
SS-PFDA-13C2	90	
SS-PFHxA-13C2	99	
SS-NEtFOSAA-d5	88	
SS-HFPO-DA-13C3	100	

Note: SS-HFPO-DA-13C3 is not required for EPA Method 537 v1.1

In addition to the SUR above you must attach the results of the ongoing QC results as specified by the method for the sample 's extraction batch.

☒ **Laboratory analytical report with QC attached (check one item below).**

☒ All associated QC criteria reported within control limits including Lab Reagent/Method Blank (LRB), Field Reagent Blank (FRB), Surrogate Standards (SUR), Laboratory Fortified Blank (LFB), Matrix Spike/Duplicate (LFSM/LFSMD or FD) and RPD.

☐ All associated sample and/or QC batch criteria not met. See Lab Analysis Comments below and narrative in attached report.

Lab Analysis Comments: (include sample/method parameters outside of or affecting QC controls/limits and result qualifiers)

Result Qualifier	Qualifier Description
J	Estimated concentration
Other Analysis Comments:	

* MCL or proposed MCL

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

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Authorized Signature: Pat Moffo ASM

Date: 05/25/2021

If not submitting these results electronically, mail TWO copies of this report to your MassDEP Regional Office no later than 10 days after the end of the month in which you received this report or no later than 10 days after the end of the reporting period, whichever is sooner. Note that during the Massachusetts COVID-19 state of emergency, in addition to submitting by mail reports may be emailed to program.director-dwp@mass.gov.

MassDEP REVIEW STATUS (Initial & Date)	Review Comments		☐ WQTS Data Entered
☐ Accepted _____ ☐ Disapproved _____			

PM 5/11/21 4/21/206 ✓

eurofins | Eaton Analytical

110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # ~~424238~~ 511-21 SS
Batch # 517561

www.eatonanalytical.com

Shaded area for EEA use only

CHAIN OF CUSTODY RECORD

Page 1 of 1

REPORT TO: ANALYTICAL BALANCE
422 West Grove St.
BILL TO: Middleboro, MA 02346

SAMPLER (Signature): P. Hennessey

COMPLIANCE MONITORING: Yes ✓ / No

PWS ID #: 4244001
STATE (sample origin): MA
POPULATION SERVED: 10m
SOURCE WATER:

PROJECT NAME: Randolph Holbrook
PO#: 2105237

LAB Number	COLLECTION DATE	COLLECTION TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1 48983389	5/10	10:20	✓		2105237-01	PFAS				2		
2	↓	↓										
3 48983390	↓	↓			FTB	537.1				1		
4		Per bottle	✓		5-11-21							
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
Jmene		AM PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
		AM PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM PM		5-11-21	0832 AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one): X Iced Wet/Blue ___ Ambient ___ °C Upon Receipt ___ N/A

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days)	0%	IV* = Immediate Verbal: (3 working days)	100%
RV* = Rush Verbal: (5 working days)	50%	IW* = Immediate Written: (3 working days)	125%
RW* = Rush Written: (5 working days)	75%	SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

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Eurofins Eaton Analytical
Run Log

Run ID: **288945** Method: **537.1**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	4899242		OS	FL	05/12/2021 18:14	051221M537_1a-FL.mdb
LRB	4899207		RW	FL	05/12/2021 18:41	051221M537_1a-FL.mdb
FBL	4899209		RW	FL	05/12/2021 18:54	051221M537_1a-FL.mdb
FBM	4899211		RW	FL	05/12/2021 19:07	051221M537_1a-FL.mdb
CCM	4899244		OS	FL	05/12/2021 22:09	051221M537_1a-FL.mdb
CCH	4899247		OS	FL	05/13/2021 00:07	051221M537_1a-FL.mdb
CCM	4900414		OS	FL	05/13/2021 10:27	051221M537_1a-FL.mdb
CCH	4900415		OS	FL	05/13/2021 13:16	051221M537_1a-FL.mdb

QC Summary Report

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	—		2.0631	2.0	ng/L	103	50 - 150	—	—	1.0	05/12/2021 11:10	05/12/2021 18:14	4899242
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	—		2.2417	2.0	ng/L	112	50 - 150	—	—	1.0	05/12/2021 11:10	05/12/2021 18:14	4899242
CCL	IS-NMeFOSAA-d3	537.1	N/A	—		456837	456837	ng/L	100	50 - 150	—	—	1.0	05/12/2021 11:10	05/12/2021 18:14	4899242
CCL	IS-PFOA-13C2	537.1	N/A	—		1100580	1100580	ng/L	100	50 - 150	—	—	1.0	05/12/2021 11:10	05/12/2021 18:14	4899242
CCL	IS-PFOS-13C4	537.1	N/A	—		382576	382576	ng/L	100	50 - 150	—	—	1.0	05/12/2021 11:10	05/12/2021 18:14	4899242
CCL	SS-NEtFOSAA-d5	537.1	N/A	—		160.2860	160	ng/L	100	70 - 130	—	—	1.0	05/12/2021 11:10	05/12/2021 18:14	4899242
CCL	SS-PFDA-13C2	537.1	N/A	—		39.6657	40.0	ng/L	99	70 - 130	—	—	1.0	05/12/2021 11:10	05/12/2021 18:14	4899242
CCL	SS-PFHxA-13C2	537.1	N/A	—		39.1905	40.0	ng/L	98	70 - 130	—	—	1.0	05/12/2021 11:10	05/12/2021 18:14	4899242
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	—		1.9275	2.0	ng/L	96	50 - 150	—	—	1.0	05/12/2021 11:10	05/12/2021 18:14	4899242
CCL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	—		1.8786	2.0	ng/L	94	50 - 150	—	—	1.0	05/12/2021 11:10	05/12/2021 18:14	4899242
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	—		2.0590	2.0	ng/L	103	50 - 150	—	—	1.0	05/12/2021 11:10	05/12/2021 18:14	4899242
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	—		2.0809	2.0	ng/L	104	50 - 150	—	—	1.0	05/12/2021 11:10	05/12/2021 18:14	4899242
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	—		2.0662	2.0	ng/L	103	50 - 150	—	—	1.0	05/12/2021 11:10	05/12/2021 18:14	4899242
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	—		1.8497	2.0	ng/L	92	50 - 150	—	—	1.0	05/12/2021 11:10	05/12/2021 18:14	4899242
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	—		2.0762	2.0	ng/L	104	50 - 150	—	—	1.0	05/12/2021 11:10	05/12/2021 18:14	4899242
CCL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	—		2.1303	2.0	ng/L	107	50 - 150	—	—	1.0	05/12/2021 11:10	05/12/2021 18:14	4899242
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	—		2.1156	2.0	ng/L	106	50 - 150	—	—	1.0	05/12/2021 11:10	05/12/2021 18:14	4899242
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	—		2.2087	2.0	ng/L	110	50 - 150	—	—	1.0	05/12/2021 11:10	05/12/2021 18:14	4899242
CCL	SS-HFPO-DA-13C3	537.1	N/A	—		38.0600	40.0	ng/L	95	70 - 130	—	—	1.0	05/12/2021 11:10	05/12/2021 18:14	4899242
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	05/12/2021 06:45	05/12/2021 18:41	4899207
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	05/12/2021 06:45	05/12/2021 18:41	4899207
LRB	IS-NMeFOSAA-d3	537.1	N/A	—		455850	456837	ng/L	100	50 - 150	—	—	1.0	05/12/2021 06:45	05/12/2021 18:41	4899207
LRB	IS-PFOA-13C2	537.1	N/A	—		1109890	1100580	ng/L	101	50 - 150	—	—	1.0	05/12/2021 06:45	05/12/2021 18:41	4899207
LRB	IS-PFOS-13C4	537.1	N/A	—		383156	382576	ng/L	100	50 - 150	—	—	1.0	05/12/2021 06:45	05/12/2021 18:41	4899207
LRB	SS-NEtFOSAA-d5	537.1	N/A	—		129.5120	160	ng/L	81	70 - 130	—	—	1.0	05/12/2021 06:45	05/12/2021 18:41	4899207
LRB	SS-PFDA-13C2	537.1	N/A	—		33.4622	40.0	ng/L	84	70 - 130	—	—	1.0	05/12/2021 06:45	05/12/2021 18:41	4899207
LRB	SS-PFHxA-13C2	537.1	N/A	—		32.9960	40.0	ng/L	82	70 - 130	—	—	1.0	05/12/2021 06:45	05/12/2021 18:41	4899207
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	05/12/2021 06:45	05/12/2021 18:41	4899207
LRB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	05/12/2021 06:45	05/12/2021 18:41	4899207
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	05/12/2021 06:45	05/12/2021 18:41	4899207
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	05/12/2021 06:45	05/12/2021 18:41	4899207
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	05/12/2021 06:45	05/12/2021 18:41	4899207
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	05/12/2021 06:45	05/12/2021 18:41	4899207
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	05/12/2021 06:45	05/12/2021 18:41	4899207
LRB	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	05/12/2021 06:45	05/12/2021 18:41	4899207
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	05/12/2021 06:45	05/12/2021 18:41	4899207
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	05/12/2021 06:45	05/12/2021 18:41	4899207
LRB	SS-HFPO-DA-13C3	537.1	N/A	—		30.4203	40.0	ng/L	76	70 - 130	—	—	1.0	05/12/2021 06:45	05/12/2021 18:41	4899207
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	—		1.9557	2.0	ng/L	98	50 - 150	—	—	1.0	05/12/2021 06:45	05/12/2021 18:54	4899209
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	—		1.8704	2.0	ng/L	94	50 - 150	—	—	1.0	05/12/2021 06:45	05/12/2021 18:54	4899209

QC Summary Report (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 #
FBL	IS-NMeFOSAA-d3	537.1	N/A	—		446314	456837	ng/L	98	50 - 150	---	---	1.0	05/12/2021 06:45	05/12/2021 18:54	4899209
FBL	IS-PFOA-13C2	537.1	N/A	—		1100220	1100580	ng/L	100	50 - 150	---	---	1.0	05/12/2021 06:45	05/12/2021 18:54	4899209
FBL	IS-PFOS-13C4	537.1	N/A	—		378653	382576	ng/L	99	50 - 150	---	---	1.0	05/12/2021 06:45	05/12/2021 18:54	4899209
FBL	SS-NEtFOSAA-d5	537.1	N/A	—		143.2960	160	ng/L	90	70 - 130	---	---	1.0	05/12/2021 06:45	05/12/2021 18:54	4899209
FBL	SS-PFDA-13C2	537.1	N/A	—		34.4648	40.0	ng/L	86	70 - 130	---	---	1.0	05/12/2021 06:45	05/12/2021 18:54	4899209
FBL	SS-PFHxA-13C2	537.1	N/A	—		34.7750	40.0	ng/L	87	70 - 130	---	---	1.0	05/12/2021 06:45	05/12/2021 18:54	4899209
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	—		1.7698	2.0	ng/L	88	50 - 150	---	---	1.0	05/12/2021 06:45	05/12/2021 18:54	4899209
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	—		1.7998	2.0	ng/L	90	50 - 150	---	---	1.0	05/12/2021 06:45	05/12/2021 18:54	4899209
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	—		1.9106	2.0	ng/L	96	50 - 150	---	---	1.0	05/12/2021 06:45	05/12/2021 18:54	4899209
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	—		1.8044	2.0	ng/L	90	50 - 150	---	---	1.0	05/12/2021 06:45	05/12/2021 18:54	4899209
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	—		1.8051	2.0	ng/L	90	50 - 150	---	---	1.0	05/12/2021 06:45	05/12/2021 18:54	4899209
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	—		1.8027	2.0	ng/L	90	50 - 150	---	---	1.0	05/12/2021 06:45	05/12/2021 18:54	4899209
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	—		1.8255	2.0	ng/L	91	50 - 150	---	---	1.0	05/12/2021 06:45	05/12/2021 18:54	4899209
FBL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	—		1.7697	2.0	ng/L	88	50 - 150	---	---	1.0	05/12/2021 06:45	05/12/2021 18:54	4899209
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	—		1.7983	2.0	ng/L	90	50 - 150	---	---	1.0	05/12/2021 06:45	05/12/2021 18:54	4899209
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	—		1.7285	2.0	ng/L	86	50 - 150	---	---	1.0	05/12/2021 06:45	05/12/2021 18:54	4899209
FBL	SS-HFPO-DA-13C3	537.1	N/A	—		32.6694	40.0	ng/L	82	70 - 130	---	---	1.0	05/12/2021 06:45	05/12/2021 18:54	4899209
FBM	Perfluorooctanoic acid (PFOA)	537.1	2.0	—		98.4892	100	ng/L	98	70 - 130	---	---	1.0	05/12/2021 06:45	05/12/2021 19:07	4899211
FBM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	—		98.6827	100	ng/L	99	70 - 130	---	---	1.0	05/12/2021 06:45	05/12/2021 19:07	4899211
FBM	IS-NMeFOSAA-d3	537.1	N/A	—		425965	456837	ng/L	93	50 - 150	---	---	1.0	05/12/2021 06:45	05/12/2021 19:07	4899211
FBM	IS-PFOA-13C2	537.1	N/A	—		1063830	1100580	ng/L	97	50 - 150	---	---	1.0	05/12/2021 06:45	05/12/2021 19:07	4899211
FBM	IS-PFOS-13C4	537.1	N/A	—		366601	382576	ng/L	96	50 - 150	---	---	1.0	05/12/2021 06:45	05/12/2021 19:07	4899211
FBM	SS-NEtFOSAA-d5	537.1	N/A	—		136.5750	160	ng/L	85	70 - 130	---	---	1.0	05/12/2021 06:45	05/12/2021 19:07	4899211
FBM	SS-PFDA-13C2	537.1	N/A	—		35.7169	40.0	ng/L	89	70 - 130	---	---	1.0	05/12/2021 06:45	05/12/2021 19:07	4899211
FBM	SS-PFHxA-13C2	537.1	N/A	—		35.8949	40.0	ng/L	90	70 - 130	---	---	1.0	05/12/2021 06:45	05/12/2021 19:07	4899211
FBM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	—		91.4941	100	ng/L	91	70 - 130	---	---	1.0	05/12/2021 06:45	05/12/2021 19:07	4899211
FBM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	—		98.2333	100	ng/L	98	70 - 130	---	---	1.0	05/12/2021 06:45	05/12/2021 19:07	4899211
FBM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	—		103.0170	100	ng/L	103	70 - 130	---	---	1.0	05/12/2021 06:45	05/12/2021 19:07	4899211
FBM	Perfluorononanoic acid (PFNA)	537.1	2.0	—		95.6277	100	ng/L	96	70 - 130	---	---	1.0	05/12/2021 06:45	05/12/2021 19:07	4899211
FBM	Perfluorodecanoic acid (PFDA)	537.1	2.0	—		93.6201	100	ng/L	94	70 - 130	---	---	1.0	05/12/2021 06:45	05/12/2021 19:07	4899211
FBM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	—		93.9249	100	ng/L	94	70 - 130	---	---	1.0	05/12/2021 06:45	05/12/2021 19:07	4899211
FBM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	—		99.1791	100	ng/L	99	70 - 130	---	---	1.0	05/12/2021 06:45	05/12/2021 19:07	4899211
FBM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	—		93.1516	100	ng/L	93	70 - 130	---	---	1.0	05/12/2021 06:45	05/12/2021 19:07	4899211
FBM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	—		93.0848	100	ng/L	93	70 - 130	---	---	1.0	05/12/2021 06:45	05/12/2021 19:07	4899211
FBM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	—		90.3540	100	ng/L	90	70 - 130	---	---	1.0	05/12/2021 06:45	05/12/2021 19:07	4899211
FBM	SS-HFPO-DA-13C3	537.1	N/A	—		34.7163	40.0	ng/L	87	70 - 130	---	---	1.0	05/12/2021 06:45	05/12/2021 19:07	4899211
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	—		101.2190	100	ng/L	101	70 - 130	---	---	1.0	05/12/2021 11:10	05/12/2021 22:09	4899244
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	—		99.3534	100	ng/L	99	70 - 130	---	---	1.0	05/12/2021 11:10	05/12/2021 22:09	4899244
CCM	IS-NMeFOSAA-d3	537.1	N/A	—		338825	338825	ng/L	100	50 - 150	---	---	1.0	05/12/2021 11:10	05/12/2021 22:09	4899244
CCM	IS-PFOA-13C2	537.1	N/A	—		1036070	1036070	ng/L	100	50 - 150	---	---	1.0	05/12/2021 11:10	05/12/2021 22:09	4899244
CCM	IS-PFOS-13C4	537.1	N/A	—		340670	340670	ng/L	100	50 - 150	---	---	1.0	05/12/2021 11:10	05/12/2021 22:09	4899244

QC Summary Report (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 #
CCM	SS-NEtFOSAA-d5	537.1	N/A	---		139.0760	160	ng/L	87	70 - 130	---	---	1.0	05/12/2021 11:10	05/12/2021 22:09	4899244
CCM	SS-PFDA-13C2	537.1	N/A	---		33.3879	40.0	ng/L	83	70 - 130	---	---	1.0	05/12/2021 11:10	05/12/2021 22:09	4899244
CCM	SS-PFHxA-13C2	537.1	N/A	---		40.1213	40.0	ng/L	100	70 - 130	---	---	1.0	05/12/2021 11:10	05/12/2021 22:09	4899244
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		104.4870	100	ng/L	104	70 - 130	---	---	1.0	05/12/2021 11:10	05/12/2021 22:09	4899244
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		100.7680	100	ng/L	101	70 - 130	---	---	1.0	05/12/2021 11:10	05/12/2021 22:09	4899244
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		107.1390	100	ng/L	107	70 - 130	---	---	1.0	05/12/2021 11:10	05/12/2021 22:09	4899244
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		96.0745	100	ng/L	96	70 - 130	---	---	1.0	05/12/2021 11:10	05/12/2021 22:09	4899244
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		82.6687	100	ng/L	83	70 - 130	---	---	1.0	05/12/2021 11:10	05/12/2021 22:09	4899244
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		101.9270	100	ng/L	102	70 - 130	---	---	1.0	05/12/2021 11:10	05/12/2021 22:09	4899244
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		83.2122	100	ng/L	83	70 - 130	---	---	1.0	05/12/2021 11:10	05/12/2021 22:09	4899244
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		107.2970	100	ng/L	107	70 - 130	---	---	1.0	05/12/2021 11:10	05/12/2021 22:09	4899244
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		80.6260	100	ng/L	81	70 - 130	---	---	1.0	05/12/2021 11:10	05/12/2021 22:09	4899244
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		75.0785	100	ng/L	75	70 - 130	---	---	1.0	05/12/2021 11:10	05/12/2021 22:09	4899244
CCM	SS-HFPO-DA-13C3	537.1	N/A	---		41.1109	40.0	ng/L	103	70 - 130	---	---	1.0	05/12/2021 11:10	05/12/2021 22:09	4899244
CCH	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		201.7540	200	ng/L	101	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 00:07	4899247
CCH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		200.4870	200	ng/L	100	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 00:07	4899247
CCH	IS-NMeFOSAA-d3	537.1	N/A	---		320937	320937	ng/L	100	50 - 150	---	---	1.0	05/12/2021 11:10	05/13/2021 00:07	4899247
CCH	IS-PFOA-13C2	537.1	N/A	---		1020290	1020290	ng/L	100	50 - 150	---	---	1.0	05/12/2021 11:10	05/13/2021 00:07	4899247
CCH	IS-PFOS-13C4	537.1	N/A	---		325982	325982	ng/L	100	50 - 150	---	---	1.0	05/12/2021 11:10	05/13/2021 00:07	4899247
CCH	SS-NEtFOSAA-d5	537.1	N/A	---		138.3920	160	ng/L	86	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 00:07	4899247
CCH	SS-PFDA-13C2	537.1	N/A	---		32.6609	40.0	ng/L	82	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 00:07	4899247
CCH	SS-PFHxA-13C2	537.1	N/A	---		42.3914	40.0	ng/L	106	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 00:07	4899247
CCH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		214.5510	200	ng/L	107	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 00:07	4899247
CCH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		207.7690	200	ng/L	104	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 00:07	4899247
CCH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		221.5350	200	ng/L	111	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 00:07	4899247
CCH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		186.3430	200	ng/L	93	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 00:07	4899247
CCH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		156.6300	200	ng/L	78	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 00:07	4899247
CCH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		211.2220	200	ng/L	106	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 00:07	4899247
CCH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		149.2530	200	ng/L	75	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 00:07	4899247
CCH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		183.8320	200	ng/L	92	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 00:07	4899247
CCH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		154.8300	200	ng/L	77	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 00:07	4899247
CCH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		150.5870	200	ng/L	75	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 00:07	4899247
CCH	SS-HFPO-DA-13C3	537.1	N/A	---		45.1743	40.0	ng/L	113	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 00:07	4899247
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		101.6610	100	ng/L	102	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 10:27	4900414
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		100.3650	100	ng/L	100	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 10:27	4900414
CCM	IS-NMeFOSAA-d3	537.1	N/A	---		358193	358193	ng/L	100	50 - 150	---	---	1.0	05/12/2021 11:10	05/13/2021 10:27	4900414
CCM	IS-PFOA-13C2	537.1	N/A	---		1112990	1112990	ng/L	100	50 - 150	---	---	1.0	05/12/2021 11:10	05/13/2021 10:27	4900414
CCM	IS-PFOS-13C4	537.1	N/A	---		370040	370040	ng/L	100	50 - 150	---	---	1.0	05/12/2021 11:10	05/13/2021 10:27	4900414
CCM	SS-NEtFOSAA-d5	537.1	N/A	---		136.0020	160	ng/L	85	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 10:27	4900414
CCM	SS-PFDA-13C2	537.1	N/A	---		32.3789	40.0	ng/L	81	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 10:27	4900414
CCM	SS-PFHxA-13C2	537.1	N/A	---		40.7010	40.0	ng/L	102	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 10:27	4900414

QC Summary Report (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 #
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		104.1720	100	ng/L	104	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 10:27	4900414
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		106.0130	100	ng/L	106	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 10:27	4900414
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		107.7850	100	ng/L	108	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 10:27	4900414
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		96.4463	100	ng/L	96	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 10:27	4900414
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		80.3960	100	ng/L	80	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 10:27	4900414
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		102.6190	100	ng/L	103	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 10:27	4900414
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		71.8161	100	ng/L	72	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 10:27	4900414
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		76.3814	100	ng/L	76	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 10:27	4900414
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		78.1836	100	ng/L	78	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 10:27	4900414
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		75.2878	100	ng/L	75	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 10:27	4900414
CCM	SS-HFPO-DA-13C3	537.1	N/A	---		40.4325	40.0	ng/L	101	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 10:27	4900414
CCH	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		201.3890	200	ng/L	101	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 13:16	4900415
CCH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		197.5270	200	ng/L	99	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 13:16	4900415
CCH	IS-NMeFOSAA-d3	537.1	N/A	---		442068	442068	ng/L	100	50 - 150	---	---	1.0	05/12/2021 11:10	05/13/2021 13:16	4900415
CCH	IS-PFOA-13C2	537.1	N/A	---		1095460	1095460	ng/L	100	50 - 150	---	---	1.0	05/12/2021 11:10	05/13/2021 13:16	4900415
CCH	IS-PFOS-13C4	537.1	N/A	---		362643	362643	ng/L	100	50 - 150	---	---	1.0	05/12/2021 11:10	05/13/2021 13:16	4900415
CCH	SS-NEtFOSAA-d5	537.1	N/A	---		141.3080	160	ng/L	88	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 13:16	4900415
CCH	SS-PFDA-13C2	537.1	N/A	---		36.6336	40.0	ng/L	92	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 13:16	4900415
CCH	SS-PFHxA-13C2	537.1	N/A	---		41.2905	40.0	ng/L	103	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 13:16	4900415
CCH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		208.8990	200	ng/L	104	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 13:16	4900415
CCH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		208.4500	200	ng/L	104	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 13:16	4900415
CCH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		214.8750	200	ng/L	107	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 13:16	4900415
CCH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		191.9000	200	ng/L	96	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 13:16	4900415
CCH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		179.8190	200	ng/L	90	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 13:16	4900415
CCH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		206.3710	200	ng/L	103	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 13:16	4900415
CCH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		165.0130	200	ng/L	83	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 13:16	4900415
CCH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		178.9450	200	ng/L	89	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 13:16	4900415
CCH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		182.9840	200	ng/L	91	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 13:16	4900415
CCH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		161.6180	200	ng/L	81	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 13:16	4900415
CCH	SS-HFPO-DA-13C3	537.1	N/A	---		40.7994	40.0	ng/L	102	70 - 130	---	---	1.0	05/12/2021 11:10	05/13/2021 13:16	4900415

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Run Log

Run ID: **288980** Method: **537.1**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	4902351		OS	FL	05/15/2021 17:11	051521M537_1a-FL.mdb
LRB	4902370		RW	FL	05/15/2021 17:38	051521M537_1a-FL.mdb
FBL	4902373		RW	FL	05/15/2021 17:51	051521M537_1a-FL.mdb
FBM	4902376		RW	FL	05/15/2021 18:04	051521M537_1a-FL.mdb
FS	4898389	2105237-01	DW	FL	05/15/2021 20:14	051521M537_1a-FL.mdb
CCM	4902359		OS	FL	05/15/2021 21:20	051521M537_1a-FL.mdb

QC Summary Report

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	---		1.9873	2.0	ng/L	99	50 - 150	---	---	1.0	05/14/2021 11:57	05/15/2021 17:11	4902351
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		2.1301	2.0	ng/L	107	50 - 150	---	---	1.0	05/14/2021 11:57	05/15/2021 17:11	4902351
CCL	IS-NMeFOSAA-d3	537.1	N/A	---		386187	386187	ng/L	100	50 - 150	---	---	1.0	05/14/2021 11:57	05/15/2021 17:11	4902351
CCL	IS-PFOA-13C2	537.1	N/A	---		1182520	1182520	ng/L	100	50 - 150	---	---	1.0	05/14/2021 11:57	05/15/2021 17:11	4902351
CCL	IS-PFOS-13C4	537.1	N/A	---		355213	355213	ng/L	100	50 - 150	---	---	1.0	05/14/2021 11:57	05/15/2021 17:11	4902351
CCL	SS-NEtFOSAA-d5	537.1	N/A	---		165.1280	160	ng/L	103	70 - 130	---	---	1.0	05/14/2021 11:57	05/15/2021 17:11	4902351
CCL	SS-PFDA-13C2	537.1	N/A	---		40.8086	40.0	ng/L	102	70 - 130	---	---	1.0	05/14/2021 11:57	05/15/2021 17:11	4902351
CCL	SS-PFHxA-13C2	537.1	N/A	---		40.4830	40.0	ng/L	101	70 - 130	---	---	1.0	05/14/2021 11:57	05/15/2021 17:11	4902351
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.8353	2.0	ng/L	92	50 - 150	---	---	1.0	05/14/2021 11:57	05/15/2021 17:11	4902351
CCL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.8196	2.0	ng/L	91	50 - 150	---	---	1.0	05/14/2021 11:57	05/15/2021 17:11	4902351
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.9761	2.0	ng/L	99	50 - 150	---	---	1.0	05/14/2021 11:57	05/15/2021 17:11	4902351
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.9830	2.0	ng/L	99	50 - 150	---	---	1.0	05/14/2021 11:57	05/15/2021 17:11	4902351
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.9841	2.0	ng/L	99	50 - 150	---	---	1.0	05/14/2021 11:57	05/15/2021 17:11	4902351
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.7822	2.0	ng/L	89	50 - 150	---	---	1.0	05/14/2021 11:57	05/15/2021 17:11	4902351
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		2.1342	2.0	ng/L	107	50 - 150	---	---	1.0	05/14/2021 11:57	05/15/2021 17:11	4902351
CCL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		2.0452	2.0	ng/L	102	50 - 150	---	---	1.0	05/14/2021 11:57	05/15/2021 17:11	4902351
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		2.0246	2.0	ng/L	101	50 - 150	---	---	1.0	05/14/2021 11:57	05/15/2021 17:11	4902351
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		2.1721	2.0	ng/L	109	50 - 150	---	---	1.0	05/14/2021 11:57	05/15/2021 17:11	4902351
CCL	SS-HFPO-DA-13C3	537.1	N/A	---		40.4608	40.0	ng/L	101	70 - 130	---	---	1.0	05/14/2021 11:57	05/15/2021 17:11	4902351
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/14/2021 08:06	05/15/2021 17:38	4902370
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/14/2021 08:06	05/15/2021 17:38	4902370
LRB	IS-NMeFOSAA-d3	537.1	N/A	---		395552	386187	ng/L	102	50 - 150	---	---	1.0	05/14/2021 08:06	05/15/2021 17:38	4902370
LRB	IS-PFOA-13C2	537.1	N/A	---		1217290	1182520	ng/L	103	50 - 150	---	---	1.0	05/14/2021 08:06	05/15/2021 17:38	4902370
LRB	IS-PFOS-13C4	537.1	N/A	---		368249	355213	ng/L	104	50 - 150	---	---	1.0	05/14/2021 08:06	05/15/2021 17:38	4902370
LRB	SS-NEtFOSAA-d5	537.1	N/A	---		148.9620	160	ng/L	93	70 - 130	---	---	1.0	05/14/2021 08:06	05/15/2021 17:38	4902370
LRB	SS-PFDA-13C2	537.1	N/A	---		39.2057	40.0	ng/L	98	70 - 130	---	---	1.0	05/14/2021 08:06	05/15/2021 17:38	4902370
LRB	SS-PFHxA-13C2	537.1	N/A	---		39.1636	40.0	ng/L	98	70 - 130	---	---	1.0	05/14/2021 08:06	05/15/2021 17:38	4902370
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/14/2021 08:06	05/15/2021 17:38	4902370
LRB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/14/2021 08:06	05/15/2021 17:38	4902370
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/14/2021 08:06	05/15/2021 17:38	4902370
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/14/2021 08:06	05/15/2021 17:38	4902370
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/14/2021 08:06	05/15/2021 17:38	4902370
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/14/2021 08:06	05/15/2021 17:38	4902370
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/14/2021 08:06	05/15/2021 17:38	4902370
LRB	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/14/2021 08:06	05/15/2021 17:38	4902370
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/14/2021 08:06	05/15/2021 17:38	4902370
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/14/2021 08:06	05/15/2021 17:38	4902370
LRB	SS-HFPO-DA-13C3	537.1	N/A	---		38.6766	40.0	ng/L	97	70 - 130	---	---	1.0	05/14/2021 08:06	05/15/2021 17:38	4902370
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		1.9713	2.0	ng/L	99	50 - 150	---	---	1.0	05/14/2021 08:06	05/15/2021 17:51	4902373
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.8823	2.0	ng/L	94	50 - 150	---	---	1.0	05/14/2021 08:06	05/15/2021 17:51	4902373

QC Summary Report (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 #
FBL	IS-NMeFOSAA-d3	537.1	N/A	—		393896	386187	ng/L	102	50 - 150	—	—	1.0	05/14/2021 08:06	05/15/2021 17:51	4902373
FBL	IS-PFOA-13C2	537.1	N/A	—		1219120	1182520	ng/L	103	50 - 150	—	—	1.0	05/14/2021 08:06	05/15/2021 17:51	4902373
FBL	IS-PFOS-13C4	537.1	N/A	—		364712	355213	ng/L	103	50 - 150	—	—	1.0	05/14/2021 08:06	05/15/2021 17:51	4902373
FBL	SS-NEtFOSAA-d5	537.1	N/A	—		145.1890	160	ng/L	91	70 - 130	—	—	1.0	05/14/2021 08:06	05/15/2021 17:51	4902373
FBL	SS-PFDA-13C2	537.1	N/A	—		37.8149	40.0	ng/L	95	70 - 130	—	—	1.0	05/14/2021 08:06	05/15/2021 17:51	4902373
FBL	SS-PFHxA-13C2	537.1	N/A	—		37.9555	40.0	ng/L	95	70 - 130	—	—	1.0	05/14/2021 08:06	05/15/2021 17:51	4902373
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	—		1.6397	2.0	ng/L	82	50 - 150	—	—	1.0	05/14/2021 08:06	05/15/2021 17:51	4902373
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	—		1.8137	2.0	ng/L	91	50 - 150	—	—	1.0	05/14/2021 08:06	05/15/2021 17:51	4902373
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	—		1.9157	2.0	ng/L	96	50 - 150	—	—	1.0	05/14/2021 08:06	05/15/2021 17:51	4902373
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	—		1.9309	2.0	ng/L	97	50 - 150	—	—	1.0	05/14/2021 08:06	05/15/2021 17:51	4902373
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	—		1.7968	2.0	ng/L	90	50 - 150	—	—	1.0	05/14/2021 08:06	05/15/2021 17:51	4902373
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	—		1.7382	2.0	ng/L	87	50 - 150	—	—	1.0	05/14/2021 08:06	05/15/2021 17:51	4902373
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	—		1.7540	2.0	ng/L	88	50 - 150	—	—	1.0	05/14/2021 08:06	05/15/2021 17:51	4902373
FBL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	—		1.7400	2.0	ng/L	87	50 - 150	—	—	1.0	05/14/2021 08:06	05/15/2021 17:51	4902373
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	—		1.8197	2.0	ng/L	91	50 - 150	—	—	1.0	05/14/2021 08:06	05/15/2021 17:51	4902373
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	—		1.7985	2.0	ng/L	90	50 - 150	—	—	1.0	05/14/2021 08:06	05/15/2021 17:51	4902373
FBL	SS-HFPO-DA-13C3	537.1	N/A	—		37.7316	40.0	ng/L	94	70 - 130	—	—	1.0	05/14/2021 08:06	05/15/2021 17:51	4902373
FBM	Perfluorooctanoic acid (PFOA)	537.1	2.0	—		98.5294	100	ng/L	99	70 - 130	—	—	1.0	05/14/2021 08:06	05/15/2021 18:04	4902376
FBM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	—		98.4559	100	ng/L	98	70 - 130	—	—	1.0	05/14/2021 08:06	05/15/2021 18:04	4902376
FBM	IS-NMeFOSAA-d3	537.1	N/A	—		394862	386187	ng/L	102	50 - 150	—	—	1.0	05/14/2021 08:06	05/15/2021 18:04	4902376
FBM	IS-PFOA-13C2	537.1	N/A	—		1209190	1182520	ng/L	102	50 - 150	—	—	1.0	05/14/2021 08:06	05/15/2021 18:04	4902376
FBM	IS-PFOS-13C4	537.1	N/A	—		364432	355213	ng/L	103	50 - 150	—	—	1.0	05/14/2021 08:06	05/15/2021 18:04	4902376
FBM	SS-NEtFOSAA-d5	537.1	N/A	—		146.1190	160	ng/L	91	70 - 130	—	—	1.0	05/14/2021 08:06	05/15/2021 18:04	4902376
FBM	SS-PFDA-13C2	537.1	N/A	—		39.8946	40.0	ng/L	100	70 - 130	—	—	1.0	05/14/2021 08:06	05/15/2021 18:04	4902376
FBM	SS-PFHxA-13C2	537.1	N/A	—		40.2169	40.0	ng/L	101	70 - 130	—	—	1.0	05/14/2021 08:06	05/15/2021 18:04	4902376
FBM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	—		94.7193	100	ng/L	95	70 - 130	—	—	1.0	05/14/2021 08:06	05/15/2021 18:04	4902376
FBM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	—		98.4965	100	ng/L	98	70 - 130	—	—	1.0	05/14/2021 08:06	05/15/2021 18:04	4902376
FBM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	—		103.0660	100	ng/L	103	70 - 130	—	—	1.0	05/14/2021 08:06	05/15/2021 18:04	4902376
FBM	Perfluorononanoic acid (PFNA)	537.1	2.0	—		97.8232	100	ng/L	98	70 - 130	—	—	1.0	05/14/2021 08:06	05/15/2021 18:04	4902376
FBM	Perfluorodecanoic acid (PFDA)	537.1	2.0	—		97.1191	100	ng/L	97	70 - 130	—	—	1.0	05/14/2021 08:06	05/15/2021 18:04	4902376
FBM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	—		94.3933	100	ng/L	94	70 - 130	—	—	1.0	05/14/2021 08:06	05/15/2021 18:04	4902376
FBM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	—		88.6497	100	ng/L	89	70 - 130	—	—	1.0	05/14/2021 08:06	05/15/2021 18:04	4902376
FBM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	—		87.0844	100	ng/L	87	70 - 130	—	—	1.0	05/14/2021 08:06	05/15/2021 18:04	4902376
FBM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	—		93.4903	100	ng/L	93	70 - 130	—	—	1.0	05/14/2021 08:06	05/15/2021 18:04	4902376
FBM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	—		88.8874	100	ng/L	89	70 - 130	—	—	1.0	05/14/2021 08:06	05/15/2021 18:04	4902376
FBM	SS-HFPO-DA-13C3	537.1	N/A	—		40.7037	40.0	ng/L	102	70 - 130	—	—	1.0	05/14/2021 08:06	05/15/2021 18:04	4902376
FS	Perfluorooctanoic acid (PFOA)	537.1	2.0	2105237-01		5.2		ng/L	—	—	—	—	0.91	05/14/2021 08:06	05/15/2021 20:14	4898389
FS	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	2105237-01		8.5		ng/L	—	—	—	—	0.91	05/14/2021 08:06	05/15/2021 20:14	4898389
FS	IS-NMeFOSAA-d3	537.1	N/A	2105237-01		405509	386187	ng/L	105	50 - 150	—	—	0.91	05/14/2021 08:06	05/15/2021 20:14	4898389
FS	IS-PFOA-13C2	537.1	N/A	2105237-01		1246750	1182520	ng/L	105	50 - 150	—	—	0.91	05/14/2021 08:06	05/15/2021 20:14	4898389
FS	IS-PFOS-13C4	537.1	N/A	2105237-01		368547	355213	ng/L	104	50 - 150	—	—	0.91	05/14/2021 08:06	05/15/2021 20:14	4898389

QC Summary Report (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	SS-NEtFOSAA-d5	537.1	N/A	2105237-01		128.7580	160	ng/L	88	70 - 130	---	---	0.91	05/14/2021 08:06	05/15/2021 20:14	4898389
FS	SS-PFDA-13C2	537.1	N/A	2105237-01		32.7653	40.0	ng/L	90	70 - 130	---	---	0.91	05/14/2021 08:06	05/15/2021 20:14	4898389
FS	SS-PFHxA-13C2	537.1	N/A	2105237-01		35.8683	40.0	ng/L	99	70 - 130	---	---	0.91	05/14/2021 08:06	05/15/2021 20:14	4898389
FS	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	2105237-01		2.3		ng/L	---	---	---	---	0.91	05/14/2021 08:06	05/15/2021 20:14	4898389
FS	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	2105237-01		2.3		ng/L	---	---	---	---	0.91	05/14/2021 08:06	05/15/2021 20:14	4898389
FS	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	2105237-01		2.5		ng/L	---	---	---	---	0.91	05/14/2021 08:06	05/15/2021 20:14	4898389
FS	Perfluorononanoic acid (PFNA)	537.1	2.0	2105237-01	J	0.88		ng/L	---	---	---	---	0.91	05/14/2021 08:06	05/15/2021 20:14	4898389
FS	Perfluorodecanoic acid (PFDA)	537.1	2.0	2105237-01	<	2.0		ng/L	---	---	---	---	0.91	05/14/2021 08:06	05/15/2021 20:14	4898389
FS	Perfluorohexanoic acid (PFHxA)	537.1	2.0	2105237-01		3.1		ng/L	---	---	---	---	0.91	05/14/2021 08:06	05/15/2021 20:14	4898389
FS	Perfluorododecanoic acid (PFDoA)	537.1	2.0	2105237-01	<	2.0		ng/L	---	---	---	---	0.91	05/14/2021 08:06	05/15/2021 20:14	4898389
FS	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	2105237-01	<	2.0		ng/L	---	---	---	---	0.91	05/14/2021 08:06	05/15/2021 20:14	4898389
FS	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	2105237-01	<	2.0		ng/L	---	---	---	---	0.91	05/14/2021 08:06	05/15/2021 20:14	4898389
FS	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	2105237-01	<	2.0		ng/L	---	---	---	---	0.91	05/14/2021 08:06	05/15/2021 20:14	4898389
FS	SS-HFPO-DA-13C3	537.1	N/A	2105237-01		36.3126	40.0	ng/L	100	70 - 130	---	---	0.91	05/14/2021 08:06	05/15/2021 20:14	4898389
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		98.3732	100	ng/L	98	70 - 130	---	---	1.0	05/14/2021 11:57	05/15/2021 21:20	4902359
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		97.1690	100	ng/L	97	70 - 130	---	---	1.0	05/14/2021 11:57	05/15/2021 21:20	4902359
CCM	IS-NMeFOSAA-d3	537.1	N/A	---		384946	384946	ng/L	100	50 - 150	---	---	1.0	05/14/2021 11:57	05/15/2021 21:20	4902359
CCM	IS-PFOA-13C2	537.1	N/A	---		1175400	1175400	ng/L	100	50 - 150	---	---	1.0	05/14/2021 11:57	05/15/2021 21:20	4902359
CCM	IS-PFOS-13C4	537.1	N/A	---		358600	358600	ng/L	100	50 - 150	---	---	1.0	05/14/2021 11:57	05/15/2021 21:20	4902359
CCM	SS-NEtFOSAA-d5	537.1	N/A	---		162.1020	160	ng/L	101	70 - 130	---	---	1.0	05/14/2021 11:57	05/15/2021 21:20	4902359
CCM	SS-PFDA-13C2	537.1	N/A	---		39.4399	40.0	ng/L	99	70 - 130	---	---	1.0	05/14/2021 11:57	05/15/2021 21:20	4902359
CCM	SS-PFHxA-13C2	537.1	N/A	---		40.4814	40.0	ng/L	101	70 - 130	---	---	1.0	05/14/2021 11:57	05/15/2021 21:20	4902359
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		95.9409	100	ng/L	96	70 - 130	---	---	1.0	05/14/2021 11:57	05/15/2021 21:20	4902359
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		98.3799	100	ng/L	98	70 - 130	---	---	1.0	05/14/2021 11:57	05/15/2021 21:20	4902359
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		98.8776	100	ng/L	99	70 - 130	---	---	1.0	05/14/2021 11:57	05/15/2021 21:20	4902359
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		97.5219	100	ng/L	98	70 - 130	---	---	1.0	05/14/2021 11:57	05/15/2021 21:20	4902359
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		95.0116	100	ng/L	95	70 - 130	---	---	1.0	05/14/2021 11:57	05/15/2021 21:20	4902359
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		95.8632	100	ng/L	96	70 - 130	---	---	1.0	05/14/2021 11:57	05/15/2021 21:20	4902359
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		98.3167	100	ng/L	98	70 - 130	---	---	1.0	05/14/2021 11:57	05/15/2021 21:20	4902359
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		95.4985	100	ng/L	95	70 - 130	---	---	1.0	05/14/2021 11:57	05/15/2021 21:20	4902359
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		97.2581	100	ng/L	97	70 - 130	---	---	1.0	05/14/2021 11:57	05/15/2021 21:20	4902359
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		96.4609	100	ng/L	96	70 - 130	---	---	1.0	05/14/2021 11:57	05/15/2021 21:20	4902359
CCM	SS-HFPO-DA-13C3	537.1	N/A	---		41.2608	40.0	ng/L	103	70 - 130	---	---	1.0	05/14/2021 11:57	05/15/2021 21:20	4902359

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Run Log

Run ID: **289275** Method: **537.1**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	4904249		OS	GA	05/18/2021 21:06	051821M537.1a.wiff
LRB	4904228		RW	GA	05/18/2021 21:27	051821M537.1a.wiff
FBL	4904231		RW	GA	05/18/2021 21:38	051821M537.1a.wiff
FBM	4904232		RW	GA	05/18/2021 21:48	051821M537.1a.wiff
FTB	4898390	2105237-01 FTB	RW	GA	05/19/2021 00:59	051821M537.1a.wiff
CCM	4904250		OS	GA	05/19/2021 03:49	051821M537.1a.wiff

QC Summary Report

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	---		1.9366	2.0	ng/L	97	50 - 150	---	---	1.0	05/14/2021 11:57	05/18/2021 21:06	4904249
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.9390	2.0	ng/L	97	50 - 150	---	---	1.0	05/14/2021 11:57	05/18/2021 21:06	4904249
CCL	IS-NMeFOSAA-d3	537.1	N/A	---		863173	863172.74	ng/L	100	50 - 150	---	---	1.0	05/14/2021 11:57	05/18/2021 21:06	4904249
CCL	IS-PFOA-13C2	537.1	N/A	---		1583131	1583131.34	ng/L	100	50 - 150	---	---	1.0	05/14/2021 11:57	05/18/2021 21:06	4904249
CCL	IS-PFOS-13C4	537.1	N/A	---		5584319	5584318.61	ng/L	100	50 - 150	---	---	1.0	05/14/2021 11:57	05/18/2021 21:06	4904249
CCL	SS-NEtFOSAA-d5	537.1	N/A	---		163.9369	160	ng/L	102	70 - 130	---	---	1.0	05/14/2021 11:57	05/18/2021 21:06	4904249
CCL	SS-PFDA-13C2	537.1	N/A	---		41.0264	40.0	ng/L	103	70 - 130	---	---	1.0	05/14/2021 11:57	05/18/2021 21:06	4904249
CCL	SS-PFHxA-13C2	537.1	N/A	---		41.4414	40.0	ng/L	104	70 - 130	---	---	1.0	05/14/2021 11:57	05/18/2021 21:06	4904249
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.8622	2.0	ng/L	93	50 - 150	---	---	1.0	05/14/2021 11:57	05/18/2021 21:06	4904249
CCL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.8939	2.0	ng/L	95	50 - 150	---	---	1.0	05/14/2021 11:57	05/18/2021 21:06	4904249
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.8125	2.0	ng/L	91	50 - 150	---	---	1.0	05/14/2021 11:57	05/18/2021 21:06	4904249
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		2.0976	2.0	ng/L	105	50 - 150	---	---	1.0	05/14/2021 11:57	05/18/2021 21:06	4904249
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.8200	2.0	ng/L	91	50 - 150	---	---	1.0	05/14/2021 11:57	05/18/2021 21:06	4904249
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.9179	2.0	ng/L	96	50 - 150	---	---	1.0	05/14/2021 11:57	05/18/2021 21:06	4904249
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.8017	2.0	ng/L	90	50 - 150	---	---	1.0	05/14/2021 11:57	05/18/2021 21:06	4904249
CCL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.9044	2.0	ng/L	95	50 - 150	---	---	1.0	05/14/2021 11:57	05/18/2021 21:06	4904249
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.7617	2.0	ng/L	88	50 - 150	---	---	1.0	05/14/2021 11:57	05/18/2021 21:06	4904249
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.8666	2.0	ng/L	93	50 - 150	---	---	1.0	05/14/2021 11:57	05/18/2021 21:06	4904249
CCL	SS-HFPO-DA-13C3	537.1	N/A	---		42.3340	40.0	ng/L	106	70 - 130	---	---	1.0	05/14/2021 11:57	05/18/2021 21:06	4904249
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/18/2021 06:50	05/18/2021 21:27	4904228
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/18/2021 06:50	05/18/2021 21:27	4904228
LRB	IS-NMeFOSAA-d3	537.1	N/A	---		800149	863172.74	ng/L	93	50 - 150	---	---	1.0	05/18/2021 06:50	05/18/2021 21:27	4904228
LRB	IS-PFOA-13C2	537.1	N/A	---		1502810	1583131.34	ng/L	95	50 - 150	---	---	1.0	05/18/2021 06:50	05/18/2021 21:27	4904228
LRB	IS-PFOS-13C4	537.1	N/A	---		5296997	5584318.61	ng/L	95	50 - 150	---	---	1.0	05/18/2021 06:50	05/18/2021 21:27	4904228
LRB	SS-NEtFOSAA-d5	537.1	N/A	---		152.9155	160	ng/L	96	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:27	4904228
LRB	SS-PFDA-13C2	537.1	N/A	---		40.3469	40.0	ng/L	101	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:27	4904228
LRB	SS-PFHxA-13C2	537.1	N/A	---		40.6249	40.0	ng/L	102	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:27	4904228
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/18/2021 06:50	05/18/2021 21:27	4904228
LRB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/18/2021 06:50	05/18/2021 21:27	4904228
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/18/2021 06:50	05/18/2021 21:27	4904228
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/18/2021 06:50	05/18/2021 21:27	4904228
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/18/2021 06:50	05/18/2021 21:27	4904228
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/18/2021 06:50	05/18/2021 21:27	4904228
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/18/2021 06:50	05/18/2021 21:27	4904228
LRB	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/18/2021 06:50	05/18/2021 21:27	4904228
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/18/2021 06:50	05/18/2021 21:27	4904228
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/18/2021 06:50	05/18/2021 21:27	4904228
LRB	SS-HFPO-DA-13C3	537.1	N/A	---		39.9656	40.0	ng/L	100	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:27	4904228
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		2.0446	2.0	ng/L	102	50 - 150	---	---	1.0	05/18/2021 06:50	05/18/2021 21:38	4904231
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.8635	2.0	ng/L	93	50 - 150	---	---	1.0	05/18/2021 06:50	05/18/2021 21:38	4904231

QC Summary Report (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 #
FBL	IS-NMeFOSAA-d3	537.1	N/A	---		825851	863172.74	ng/L	96	50 - 150	---	---	1.0	05/18/2021 06:50	05/18/2021 21:38	4904231
FBL	IS-PFOA-13C2	537.1	N/A	---		1583230	1583131.34	ng/L	100	50 - 150	---	---	1.0	05/18/2021 06:50	05/18/2021 21:38	4904231
FBL	IS-PFOS-13C4	537.1	N/A	---		5326724	5584318.61	ng/L	95	50 - 150	---	---	1.0	05/18/2021 06:50	05/18/2021 21:38	4904231
FBL	SS-NEtFOSAA-d5	537.1	N/A	---		153.6044	160	ng/L	96	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:38	4904231
FBL	SS-PFDA-13C2	537.1	N/A	---		40.1251	40.0	ng/L	100	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:38	4904231
FBL	SS-PFHxA-13C2	537.1	N/A	---		39.4022	40.0	ng/L	99	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:38	4904231
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.9081	2.0	ng/L	95	50 - 150	---	---	1.0	05/18/2021 06:50	05/18/2021 21:38	4904231
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.8625	2.0	ng/L	93	50 - 150	---	---	1.0	05/18/2021 06:50	05/18/2021 21:38	4904231
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.9317	2.0	ng/L	97	50 - 150	---	---	1.0	05/18/2021 06:50	05/18/2021 21:38	4904231
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.9568	2.0	ng/L	98	50 - 150	---	---	1.0	05/18/2021 06:50	05/18/2021 21:38	4904231
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.7511	2.0	ng/L	88	50 - 150	---	---	1.0	05/18/2021 06:50	05/18/2021 21:38	4904231
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.8409	2.0	ng/L	92	50 - 150	---	---	1.0	05/18/2021 06:50	05/18/2021 21:38	4904231
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.7172	2.0	ng/L	86	50 - 150	---	---	1.0	05/18/2021 06:50	05/18/2021 21:38	4904231
FBL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.7477	2.0	ng/L	87	50 - 150	---	---	1.0	05/18/2021 06:50	05/18/2021 21:38	4904231
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.7143	2.0	ng/L	86	50 - 150	---	---	1.0	05/18/2021 06:50	05/18/2021 21:38	4904231
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.7836	2.0	ng/L	89	50 - 150	---	---	1.0	05/18/2021 06:50	05/18/2021 21:38	4904231
FBL	SS-HFPO-DA-13C3	537.1	N/A	---		39.6588	40.0	ng/L	99	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:38	4904231
FBM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		99.1809	100	ng/L	99	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:48	4904232
FBM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		99.8637	100	ng/L	100	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:48	4904232
FBM	IS-NMeFOSAA-d3	537.1	N/A	---		782842	863172.74	ng/L	91	50 - 150	---	---	1.0	05/18/2021 06:50	05/18/2021 21:48	4904232
FBM	IS-PFOA-13C2	537.1	N/A	---		1518075	1583131.34	ng/L	96	50 - 150	---	---	1.0	05/18/2021 06:50	05/18/2021 21:48	4904232
FBM	IS-PFOS-13C4	537.1	N/A	---		5072204	5584318.61	ng/L	91	50 - 150	---	---	1.0	05/18/2021 06:50	05/18/2021 21:48	4904232
FBM	SS-NEtFOSAA-d5	537.1	N/A	---		147.6850	160	ng/L	92	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:48	4904232
FBM	SS-PFDA-13C2	537.1	N/A	---		39.8665	40.0	ng/L	100	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:48	4904232
FBM	SS-PFHxA-13C2	537.1	N/A	---		41.7316	40.0	ng/L	104	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:48	4904232
FBM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		101.2062	100	ng/L	101	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:48	4904232
FBM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		98.8490	100	ng/L	99	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:48	4904232
FBM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		103.8168	100	ng/L	104	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:48	4904232
FBM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		101.3718	100	ng/L	101	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:48	4904232
FBM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		97.2183	100	ng/L	97	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:48	4904232
FBM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		96.4795	100	ng/L	96	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:48	4904232
FBM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		89.3842	100	ng/L	89	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:48	4904232
FBM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		88.8955	100	ng/L	89	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:48	4904232
FBM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		91.3397	100	ng/L	91	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:48	4904232
FBM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		92.4888	100	ng/L	92	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:48	4904232
FBM	SS-HFPO-DA-13C3	537.1	N/A	---		39.0245	40.0	ng/L	98	70 - 130	---	---	1.0	05/18/2021 06:50	05/18/2021 21:48	4904232
FTB	Perfluorooctanoic acid (PFOA)	537.1	2.0	2105237-01 FTB	<	2.0		ng/L	---	---	---	---	0.93	05/18/2021 06:50	05/19/2021 00:59	4898390
FTB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	2105237-01 FTB	<	2.0		ng/L	---	---	---	---	0.93	05/18/2021 06:50	05/19/2021 00:59	4898390
FTB	IS-NMeFOSAA-d3	537.1	N/A	2105237-01 FTB		852635	863172.74	ng/L	99	50 - 150	---	---	0.93	05/18/2021 06:50	05/19/2021 00:59	4898390
FTB	IS-PFOA-13C2	537.1	N/A	2105237-01 FTB		1550715	1583131.34	ng/L	98	50 - 150	---	---	0.93	05/18/2021 06:50	05/19/2021 00:59	4898390
FTB	IS-PFOS-13C4	537.1	N/A	2105237-01 FTB		5516439	5584318.61	ng/L	99	50 - 150	---	---	0.93	05/18/2021 06:50	05/19/2021 00:59	4898390

QC Summary Report (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 #
FTB	SS-NEtFOSAA-d5	537.1	N/A	2105237-01 FTB		134.8317	160	ng/L	91	70 - 130	---	---	0.93	05/18/2021 06:50	05/19/2021 00:59	4898390
FTB	SS-PFDA-13C2	537.1	N/A	2105237-01 FTB		38.2074	40.0	ng/L	103	70 - 130	---	---	0.93	05/18/2021 06:50	05/19/2021 00:59	4898390
FTB	SS-PFHxA-13C2	537.1	N/A	2105237-01 FTB		38.4804	40.0	ng/L	103	70 - 130	---	---	0.93	05/18/2021 06:50	05/19/2021 00:59	4898390
FTB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	2105237-01 FTB	<	2.0		ng/L	---	---	---	---	0.93	05/18/2021 06:50	05/19/2021 00:59	4898390
FTB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	2105237-01 FTB	<	2.0		ng/L	---	---	---	---	0.93	05/18/2021 06:50	05/19/2021 00:59	4898390
FTB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	2105237-01 FTB	<	2.0		ng/L	---	---	---	---	0.93	05/18/2021 06:50	05/19/2021 00:59	4898390
FTB	Perfluorononanoic acid (PFNA)	537.1	2.0	2105237-01 FTB	<	2.0		ng/L	---	---	---	---	0.93	05/18/2021 06:50	05/19/2021 00:59	4898390
FTB	Perfluorodecanoic acid (PFDA)	537.1	2.0	2105237-01 FTB	<	2.0		ng/L	---	---	---	---	0.93	05/18/2021 06:50	05/19/2021 00:59	4898390
FTB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	2105237-01 FTB	<	2.0		ng/L	---	---	---	---	0.93	05/18/2021 06:50	05/19/2021 00:59	4898390
FTB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	2105237-01 FTB	<	2.0		ng/L	---	---	---	---	0.93	05/18/2021 06:50	05/19/2021 00:59	4898390
FTB	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	2105237-01 FTB	<	2.0		ng/L	---	---	---	---	0.93	05/18/2021 06:50	05/19/2021 00:59	4898390
FTB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	2105237-01 FTB	<	2.0		ng/L	---	---	---	---	0.93	05/18/2021 06:50	05/19/2021 00:59	4898390
FTB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	2105237-01 FTB	<	2.0		ng/L	---	---	---	---	0.93	05/18/2021 06:50	05/19/2021 00:59	4898390
FTB	SS-HFPO-DA-13C3	537.1	N/A	2105237-01 FTB		36.7384	40.0	ng/L	99	70 - 130	---	---	0.93	05/18/2021 06:50	05/19/2021 00:59	4898390
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		93.7920	100	ng/L	94	70 - 130	---	---	1.0	05/14/2021 11:57	05/19/2021 03:49	4904250
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		94.4496	100	ng/L	94	70 - 130	---	---	1.0	05/14/2021 11:57	05/19/2021 03:49	4904250
CCM	IS-NMeFOSAA-d3	537.1	N/A	---		850077	850077.34	ng/L	100	50 - 150	---	---	1.0	05/14/2021 11:57	05/19/2021 03:49	4904250
CCM	IS-PFOA-13C2	537.1	N/A	---		1630404	1630404.37	ng/L	100	50 - 150	---	---	1.0	05/14/2021 11:57	05/19/2021 03:49	4904250
CCM	IS-PFOS-13C4	537.1	N/A	---		5612159	5612158.8	ng/L	100	50 - 150	---	---	1.0	05/14/2021 11:57	05/19/2021 03:49	4904250
CCM	SS-NEtFOSAA-d5	537.1	N/A	---		155.2471	160	ng/L	97	70 - 130	---	---	1.0	05/14/2021 11:57	05/19/2021 03:49	4904250
CCM	SS-PFDA-13C2	537.1	N/A	---		38.5405	40.0	ng/L	96	70 - 130	---	---	1.0	05/14/2021 11:57	05/19/2021 03:49	4904250
CCM	SS-PFHxA-13C2	537.1	N/A	---		37.5802	40.0	ng/L	94	70 - 130	---	---	1.0	05/14/2021 11:57	05/19/2021 03:49	4904250
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		94.2108	100	ng/L	94	70 - 130	---	---	1.0	05/14/2021 11:57	05/19/2021 03:49	4904250
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		94.2477	100	ng/L	94	70 - 130	---	---	1.0	05/14/2021 11:57	05/19/2021 03:49	4904250
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		95.4665	100	ng/L	95	70 - 130	---	---	1.0	05/14/2021 11:57	05/19/2021 03:49	4904250
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		96.5951	100	ng/L	97	70 - 130	---	---	1.0	05/14/2021 11:57	05/19/2021 03:49	4904250
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		93.6685	100	ng/L	94	70 - 130	---	---	1.0	05/14/2021 11:57	05/19/2021 03:49	4904250
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		94.0018	100	ng/L	94	70 - 130	---	---	1.0	05/14/2021 11:57	05/19/2021 03:49	4904250
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		96.2023	100	ng/L	96	70 - 130	---	---	1.0	05/14/2021 11:57	05/19/2021 03:49	4904250
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		93.4867	100	ng/L	93	70 - 130	---	---	1.0	05/14/2021 11:57	05/19/2021 03:49	4904250
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		90.1447	100	ng/L	90	70 - 130	---	---	1.0	05/14/2021 11:57	05/19/2021 03:49	4904250
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		98.6249	100	ng/L	99	70 - 130	---	---	1.0	05/14/2021 11:57	05/19/2021 03:49	4904250
CCM	SS-HFPO-DA-13C3	537.1	N/A	---		38.6768	40.0	ng/L	97	70 - 130	---	---	1.0	05/14/2021 11:57	05/19/2021 03:49	4904250

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Run Log

Run ID: **289344** Method: **537.1**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	4909090		OS	FL	05/22/2021 01:21	052221M537_1a-FL.mdb
LRB	4909052		RW	FL	05/22/2021 01:48	052221M537_1a-FL.mdb
FBL	4909060		RW	FL	05/22/2021 02:01	052221M537_1a-FL.mdb
FBH	4909067		RW	FL	05/22/2021 02:14	052221M537_1a-FL.mdb
CCM	4909092		OS	FL	05/22/2021 05:16	052221M537_1a-FL.mdb
CCH	4909094		OS	FL	05/22/2021 07:01	052221M537_1a-FL.mdb
CCM	4909733		OS	FL	05/22/2021 14:58	052221M537_1a-FL.mdb
CCH	4909734		OS	FL	05/22/2021 15:38	052221M537_1a-FL.mdb

QC Summary Report

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	---		2.0415	2.0	ng/L	102	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 01:21	4909090
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		2.1924	2.0	ng/L	110	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 01:21	4909090
CCL	IS-NMeFOSAA-d3	537.1	N/A	---		742728	742728	ng/L	100	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 01:21	4909090
CCL	IS-PFOA-13C2	537.1	N/A	---		1347590	1347590	ng/L	100	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 01:21	4909090
CCL	IS-PFOS-13C4	537.1	N/A	---		357944	357944	ng/L	100	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 01:21	4909090
CCL	SS-NEtFOSAA-d5	537.1	N/A	---		172.9600	160	ng/L	108	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 01:21	4909090
CCL	SS-PFDA-13C2	537.1	N/A	---		39.9034	40.0	ng/L	100	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 01:21	4909090
CCL	SS-PFHxA-13C2	537.1	N/A	---		39.3573	40.0	ng/L	98	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 01:21	4909090
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.8718	2.0	ng/L	94	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 01:21	4909090
CCL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.9310	2.0	ng/L	97	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 01:21	4909090
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		2.0833	2.0	ng/L	104	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 01:21	4909090
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		2.2199	2.0	ng/L	111	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 01:21	4909090
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		2.0636	2.0	ng/L	103	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 01:21	4909090
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.8323	2.0	ng/L	92	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 01:21	4909090
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		2.1823	2.0	ng/L	109	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 01:21	4909090
CCL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		2.1255	2.0	ng/L	106	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 01:21	4909090
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		2.1936	2.0	ng/L	110	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 01:21	4909090
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		2.1438	2.0	ng/L	107	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 01:21	4909090
CCL	SS-HFPO-DA-13C3	537.1	N/A	---		37.6571	40.0	ng/L	94	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 01:21	4909090
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/21/2021 08:30	05/22/2021 01:48	4909052
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/21/2021 08:30	05/22/2021 01:48	4909052
LRB	IS-NMeFOSAA-d3	537.1	N/A	---		744390	742728	ng/L	100	50 - 150	---	---	1.0	05/21/2021 08:30	05/22/2021 01:48	4909052
LRB	IS-PFOA-13C2	537.1	N/A	---		1369320	1347590	ng/L	102	50 - 150	---	---	1.0	05/21/2021 08:30	05/22/2021 01:48	4909052
LRB	IS-PFOS-13C4	537.1	N/A	---		367552	357944	ng/L	103	50 - 150	---	---	1.0	05/21/2021 08:30	05/22/2021 01:48	4909052
LRB	SS-NEtFOSAA-d5	537.1	N/A	---		156.8490	160	ng/L	98	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 01:48	4909052
LRB	SS-PFDA-13C2	537.1	N/A	---		38.0811	40.0	ng/L	95	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 01:48	4909052
LRB	SS-PFHxA-13C2	537.1	N/A	---		38.2229	40.0	ng/L	96	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 01:48	4909052
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/21/2021 08:30	05/22/2021 01:48	4909052
LRB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/21/2021 08:30	05/22/2021 01:48	4909052
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/21/2021 08:30	05/22/2021 01:48	4909052
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/21/2021 08:30	05/22/2021 01:48	4909052
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/21/2021 08:30	05/22/2021 01:48	4909052
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/21/2021 08:30	05/22/2021 01:48	4909052
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/21/2021 08:30	05/22/2021 01:48	4909052
LRB	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/21/2021 08:30	05/22/2021 01:48	4909052
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/21/2021 08:30	05/22/2021 01:48	4909052
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	05/21/2021 08:30	05/22/2021 01:48	4909052
LRB	SS-HFPO-DA-13C3	537.1	N/A	---		36.6236	40.0	ng/L	92	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 01:48	4909052
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		1.8517	2.0	ng/L	93	50 - 150	---	---	1.0	05/21/2021 08:30	05/22/2021 02:01	4909060
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.7900	2.0	ng/L	89	50 - 150	---	---	1.0	05/21/2021 08:30	05/22/2021 02:01	4909060

QC Summary Report (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 #
FBL	IS-NMeFOSAA-d3	537.1	N/A	---		816947	742728	ng/L	110	50 - 150	---	---	1.0	05/21/2021 08:30	05/22/2021 02:01	4909060
FBL	IS-PFOA-13C2	537.1	N/A	---		1456770	1347590	ng/L	108	50 - 150	---	---	1.0	05/21/2021 08:30	05/22/2021 02:01	4909060
FBL	IS-PFOS-13C4	537.1	N/A	---		390974	357944	ng/L	109	50 - 150	---	---	1.0	05/21/2021 08:30	05/22/2021 02:01	4909060
FBL	SS-NEtFOSAA-d5	537.1	N/A	---		149.4980	160	ng/L	93	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 02:01	4909060
FBL	SS-PFDA-13C2	537.1	N/A	---		36.5247	40.0	ng/L	91	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 02:01	4909060
FBL	SS-PFHxA-13C2	537.1	N/A	---		35.6683	40.0	ng/L	89	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 02:01	4909060
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.7148	2.0	ng/L	86	50 - 150	---	---	1.0	05/21/2021 08:30	05/22/2021 02:01	4909060
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		1.6912	2.0	ng/L	85	50 - 150	---	---	1.0	05/21/2021 08:30	05/22/2021 02:01	4909060
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.7828	2.0	ng/L	89	50 - 150	---	---	1.0	05/21/2021 08:30	05/22/2021 02:01	4909060
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.8286	2.0	ng/L	91	50 - 150	---	---	1.0	05/21/2021 08:30	05/22/2021 02:01	4909060
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.7768	2.0	ng/L	89	50 - 150	---	---	1.0	05/21/2021 08:30	05/22/2021 02:01	4909060
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.6158	2.0	ng/L	81	50 - 150	---	---	1.0	05/21/2021 08:30	05/22/2021 02:01	4909060
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		1.7328	2.0	ng/L	87	50 - 150	---	---	1.0	05/21/2021 08:30	05/22/2021 02:01	4909060
FBL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		1.6493	2.0	ng/L	82	50 - 150	---	---	1.0	05/21/2021 08:30	05/22/2021 02:01	4909060
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.7998	2.0	ng/L	90	50 - 150	---	---	1.0	05/21/2021 08:30	05/22/2021 02:01	4909060
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.5897	2.0	ng/L	79	50 - 150	---	---	1.0	05/21/2021 08:30	05/22/2021 02:01	4909060
FBL	SS-HFPO-DA-13C3	537.1	N/A	---		32.5662	40.0	ng/L	81	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 02:01	4909060
FBH	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		190.1790	200	ng/L	95	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 02:14	4909067
FBH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		191.1550	200	ng/L	96	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 02:14	4909067
FBH	IS-NMeFOSAA-d3	537.1	N/A	---		788105	742728	ng/L	106	50 - 150	---	---	1.0	05/21/2021 08:30	05/22/2021 02:14	4909067
FBH	IS-PFOA-13C2	537.1	N/A	---		1297580	1347590	ng/L	96	50 - 150	---	---	1.0	05/21/2021 08:30	05/22/2021 02:14	4909067
FBH	IS-PFOS-13C4	537.1	N/A	---		364766	357944	ng/L	102	50 - 150	---	---	1.0	05/21/2021 08:30	05/22/2021 02:14	4909067
FBH	SS-NEtFOSAA-d5	537.1	N/A	---		157.0300	160	ng/L	98	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 02:14	4909067
FBH	SS-PFDA-13C2	537.1	N/A	---		39.7917	40.0	ng/L	99	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 02:14	4909067
FBH	SS-PFHxA-13C2	537.1	N/A	---		38.8781	40.0	ng/L	97	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 02:14	4909067
FBH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		193.5760	200	ng/L	97	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 02:14	4909067
FBH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		190.1510	200	ng/L	95	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 02:14	4909067
FBH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		194.2600	200	ng/L	97	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 02:14	4909067
FBH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		192.5090	200	ng/L	96	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 02:14	4909067
FBH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		195.5340	200	ng/L	98	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 02:14	4909067
FBH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		188.8790	200	ng/L	94	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 02:14	4909067
FBH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		191.3800	200	ng/L	96	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 02:14	4909067
FBH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		186.1170	200	ng/L	93	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 02:14	4909067
FBH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		197.5610	200	ng/L	99	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 02:14	4909067
FBH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		180.2400	200	ng/L	90	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 02:14	4909067
FBH	SS-HFPO-DA-13C3	537.1	N/A	---		39.0079	40.0	ng/L	98	70 - 130	---	---	1.0	05/21/2021 08:30	05/22/2021 02:14	4909067
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		99.6782	100	ng/L	100	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 05:16	4909092
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		98.8528	100	ng/L	99	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 05:16	4909092
CCM	IS-NMeFOSAA-d3	537.1	N/A	---		765730	765730	ng/L	100	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 05:16	4909092
CCM	IS-PFOA-13C2	537.1	N/A	---		1370120	1370120	ng/L	100	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 05:16	4909092
CCM	IS-PFOS-13C4	537.1	N/A	---		375941	375941	ng/L	100	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 05:16	4909092

QC Summary Report (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 #
CCM	SS-NEtFOSAA-d5	537.1	N/A	---		151.3310	160	ng/L	95	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 05:16	4909092
CCM	SS-PFDA-13C2	537.1	N/A	---		39.8718	40.0	ng/L	100	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 05:16	4909092
CCM	SS-PFHxA-13C2	537.1	N/A	---		39.6101	40.0	ng/L	99	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 05:16	4909092
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		97.1470	100	ng/L	97	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 05:16	4909092
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		100.1490	100	ng/L	100	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 05:16	4909092
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		99.9438	100	ng/L	100	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 05:16	4909092
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		101.8560	100	ng/L	102	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 05:16	4909092
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		97.8115	100	ng/L	98	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 05:16	4909092
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		96.7529	100	ng/L	97	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 05:16	4909092
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		96.2758	100	ng/L	96	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 05:16	4909092
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		114.8730	100	ng/L	115	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 05:16	4909092
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		95.9820	100	ng/L	96	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 05:16	4909092
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		100.2900	100	ng/L	100	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 05:16	4909092
CCM	SS-HFPO-DA-13C3	537.1	N/A	---		38.5352	40.0	ng/L	96	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 05:16	4909092
CCH	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		196.9240	200	ng/L	98	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 07:01	4909094
CCH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		195.6990	200	ng/L	98	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 07:01	4909094
CCH	IS-NMeFOSAA-d3	537.1	N/A	---		792234	792234	ng/L	100	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 07:01	4909094
CCH	IS-PFOA-13C2	537.1	N/A	---		1380180	1380180	ng/L	100	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 07:01	4909094
CCH	IS-PFOS-13C4	537.1	N/A	---		386768	386768	ng/L	100	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 07:01	4909094
CCH	SS-NEtFOSAA-d5	537.1	N/A	---		155.5590	160	ng/L	97	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 07:01	4909094
CCH	SS-PFDA-13C2	537.1	N/A	---		41.3405	40.0	ng/L	103	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 07:01	4909094
CCH	SS-PFHxA-13C2	537.1	N/A	---		40.8350	40.0	ng/L	102	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 07:01	4909094
CCH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		196.8770	200	ng/L	98	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 07:01	4909094
CCH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		197.6030	200	ng/L	99	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 07:01	4909094
CCH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		195.2420	200	ng/L	98	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 07:01	4909094
CCH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		196.8020	200	ng/L	98	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 07:01	4909094
CCH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		199.3770	200	ng/L	100	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 07:01	4909094
CCH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		195.2870	200	ng/L	98	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 07:01	4909094
CCH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		200.2260	200	ng/L	100	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 07:01	4909094
CCH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		213.5370	200	ng/L	107	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 07:01	4909094
CCH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		193.1770	200	ng/L	97	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 07:01	4909094
CCH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		206.6460	200	ng/L	103	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 07:01	4909094
CCH	SS-HFPO-DA-13C3	537.1	N/A	---		39.8954	40.0	ng/L	100	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 07:01	4909094
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		99.3532	100	ng/L	99	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 14:58	4909733
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		99.1434	100	ng/L	99	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 14:58	4909733
CCM	IS-NMeFOSAA-d3	537.1	N/A	---		813013	813013	ng/L	100	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 14:58	4909733
CCM	IS-PFOA-13C2	537.1	N/A	---		1414440	1414440	ng/L	100	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 14:58	4909733
CCM	IS-PFOS-13C4	537.1	N/A	---		382480	382480	ng/L	100	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 14:58	4909733
CCM	SS-NEtFOSAA-d5	537.1	N/A	---		172.9560	160	ng/L	108	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 14:58	4909733
CCM	SS-PFDA-13C2	537.1	N/A	---		39.9190	40.0	ng/L	100	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 14:58	4909733
CCM	SS-PFHxA-13C2	537.1	N/A	---		39.9517	40.0	ng/L	100	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 14:58	4909733

QC Summary Report (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 #
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		98.0108	100	ng/L	98	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 14:58	4909733
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		100.6780	100	ng/L	101	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 14:58	4909733
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		100.4580	100	ng/L	100	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 14:58	4909733
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	---		101.9470	100	ng/L	102	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 14:58	4909733
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		99.4178	100	ng/L	99	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 14:58	4909733
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		97.9991	100	ng/L	98	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 14:58	4909733
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		100.2930	100	ng/L	100	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 14:58	4909733
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		100.3460	100	ng/L	100	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 14:58	4909733
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		101.7290	100	ng/L	102	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 14:58	4909733
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		106.0750	100	ng/L	106	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 14:58	4909733
CCM	SS-HFPO-DA-13C3	537.1	N/A	---		40.0114	40.0	ng/L	100	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 14:58	4909733
CCH	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		197.6610	200	ng/L	99	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 15:38	4909734
CCH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		195.6400	200	ng/L	98	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 15:38	4909734
CCH	IS-NMeFOSAA-d3	537.1	N/A	---		812042	812042	ng/L	100	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 15:38	4909734
CCH	IS-PFOA-13C2	537.1	N/A	---		1377810	1377810	ng/L	100	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 15:38	4909734
CCH	IS-PFOS-13C4	537.1	N/A	---		372028	372028	ng/L	100	50 - 150	---	---	1.0	05/21/2021 14:16	05/22/2021 15:38	4909734
CCH	SS-NEtFOSAA-d5	537.1	N/A	---		161.7300	160	ng/L	101	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 15:38	4909734
CCH	SS-PFDA-13C2	537.1	N/A	---		40.8461	40.0	ng/L	102	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 15:38	4909734
CCH	SS-PFHxA-13C2	537.1	N/A	---		40.9956	40.0	ng/L	102	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 15:38	4909734
CCH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		197.5610	200	ng/L	99	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 15:38	4909734
CCH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	---		198.1750	200	ng/L	99	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 15:38	4909734
CCH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		196.9260	200	ng/L	98	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 15:38	4909734
CCH	Perfluorononanoic acid (PFNA)	537.1	2.0	---		195.4340	200	ng/L	98	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 15:38	4909734
CCH	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		201.3810	200	ng/L	101	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 15:38	4909734
CCH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		195.6100	200	ng/L	98	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 15:38	4909734
CCH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	---		199.6440	200	ng/L	100	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 15:38	4909734
CCH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	---		204.7640	200	ng/L	102	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 15:38	4909734
CCH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		196.5530	200	ng/L	98	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 15:38	4909734
CCH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		208.8490	200	ng/L	104	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 15:38	4909734
CCH	SS-HFPO-DA-13C3	537.1	N/A	---		41.5770	40.0	ng/L	104	70 - 130	---	---	1.0	05/21/2021 14:16	05/22/2021 15:38	4909734

Sample Type Key

Type (Abbr.)	Sample Type
CCH	Continuing Calibration High
CCL	Continuing Calibration Low
CCM	Continuing Calibration Mid
FS	Field Sample
FTB	Field Trip Blank
FBH	Fortified Blank High
FBL	Fortified Blank Low
FBM	Fortified Blank Mid
LRB	Laboratory Reagent Blank

Type (Abbr.)	Sample Type

END OF REPORT