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	Great Pond WTP	☐ (M)ultiple ☒ (S)ingle	☐ (R)aw ☒ (F)inished	02/22/2021	B. Cookerly

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	03/01/2021	03/01/2021		Primary Lab:	56047-01
				Subcontracted Lab:	4838657

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)	9.5			2.0	2.0
335-67-1	Perfluorooctanoic Acid (PFOA)	6.2			2.0	2.0
355-46-4	Perfluorohexane Sulfonic Acid (PFHxS)	2.9			2.0	2.0
375-95-1	Perfluorononanoic Acid (PFNA)	1.0	J	-	2.0	2.0
375-85-9	Perfluorohepatanoic Acid (PFHpA)	2.6			2.0	2.0
335-76-2	Perfluorodecanoic acid (PFDA)	<2.0			2.0	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)	=	21	--	20	-	-
	UNREGULATED PFAS CONTAMINANTS					
375-73-5	Perfluorobutane sulfonic acid (PFBS)	2.6			2.0	2.0
307-55-1	Perfluorododecanoic acid (PFDoA)	<2.0			2.0	2.0
307-24-4	Perfluorohexanoic acid (PFHxA)	3.8			2.0	2.0
376-06-7	Perfluorotetradecanoic acid (PFTA)	<2.0			2.0	2.0
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	<2.0			2.0	2.0
2058-94-8	Perfluoroundecanoic acid (PFUnA)	<2.0		-	2.0	2.0
2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)					
2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)					
763051-92-9	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)					
756426-58-1	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)					
919005-14-4	4,8-dioxa-3H-perfluorononanoic acid (ADONA)					
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPO-DA)					

[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

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

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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	Great Pond WTP	☐ (M)ultiple ☒ (S)ingle	☐ (R)aw ☒ (F)inished	02/22/2021	B. Cookerly

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	03/01/2021	03/01/2021		Primary Lab:	56047-01
				Subcontracted Lab:	4838657

CAS#	REGULATED PFAS CONTAMINANTS	Result[1] ng/L	Result[2] Qualifier	MCL* ng/L	MDL ng/L	MRL ng/L
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335-67-1	Perfluorooctanoic Acid (PFOA)	6.2			2.0	2.0
355-46-4	Perfluorohexane Sulfonic Acid (PFHxS)	2.9			2.0	2.0
375-95-1	Perfluorononanoic Acid (PFNA)	1.0	J	-	2.0	2.0
375-85-9	Perfluorohepatanoic Acid (PFHpA)	2.6			2.0	2.0
335-76-2	Perfluorodecanoic acid (PFDA)	<2.0			2.0	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)	=	21	--	20	-	-
	UNREGULATED PFAS CONTAMINANTS					
375-73-5	Perfluorobutane sulfonic acid (PFBS)	2.6			2.0	2.0
307-55-1	Perfluorododecanoic acid (PFDoA)	<2.0			2.0	2.0
307-24-4	Perfluorohexanoic acid (PFHxA)	3.8			2.0	2.0
376-06-7	Perfluorotetradecanoic acid (PFTA)	<2.0			2.0	2.0
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	<2.0			2.0	2.0
2058-94-8	Perfluoroundecanoic acid (PFUnA)	<2.0			2.0	2.0
2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)			-		
2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)					
763051-92-9	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)					
756426-58-1	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)					
919005-14-4	4,8-dioxa-3H-perfluorononanoic acid (ADONA)					
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPO-DA)					

[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.

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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

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LABORATORY CASE NARRATIVE

Client: Analytical Balance Corporation Report #: 510951CN

All method QC was within acceptance limits.

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

Pat Murphy ASM 03/05/2021

Authorized Signature Title Date

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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: 510951
Priority: Standard Written
Status: Final
PWS ID: MA4244001

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4838657	56047-1	537.1	02/22/21 10:00	Client	02/23/21 08:15
4838658	56047-1 FTB	537.1	02/22/21 10:00	Client	02/23/21 08:15

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 03/05/2021

Authorized Signature Title Date

Client Name: Analytical Balance Corporation
Report #: 510951

Client Name: Analytical Balance Corporation Report #: 510951

Sampling Point: 56047-1 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	**6.2**	ng/L	03/01/21 07:46	03/01/21 22:29	4838657
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1	---	2.0	**9.5**	ng/L	03/01/21 07:46	03/01/21 22:29	4838657
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1	---	2.0	**2.6**	ng/L	03/01/21 07:46	03/01/21 22:29	4838657
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	---	2.0	**2.6**	ng/L	03/01/21 07:46	03/01/21 22:29	4838657
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1	---	2.0	**2.9**	ng/L	03/01/21 07:46	03/01/21 22:29	4838657
375-95-1	Perfluorononanoic acid (PFNA)	537.1	---	2.0	**1.0 J**	ng/L	03/01/21 07:46	03/01/21 22:29	4838657
335-76-2	Perfluorodecanoic acid (PFDA)	537.1	---	2.0	< 2.0	ng/L	03/01/21 07:46	03/01/21 22:29	4838657
307-24-4	Perfluorohexanoic acid (PFHxA)	537.1	---	2.0	**3.8**	ng/L	03/01/21 07:46	03/01/21 22:29	4838657
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1	---	2.0	< 2.0	ng/L	03/01/21 07:46	03/01/21 22:29	4838657
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	537.1	---	2.0	< 2.0	ng/L	03/01/21 07:46	03/01/21 22:29	4838657
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1	---	2.0	< 2.0	ng/L	03/01/21 07:46	03/01/21 22:29	4838657
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1	---	2.0	< 2.0	ng/L	03/01/21 07:46	03/01/21 22:29	4838657

Sampling Point: 56047-1 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	03/03/21 07:40	03/04/21 01:47	4838658
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	537.1	---	2.0	< 2.0	ng/L	03/03/21 07:40	03/04/21 01:47	4838658
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537.1	---	2.0	< 2.0	ng/L	03/03/21 07:40	03/04/21 01:47	4838658
375-85-9	Perfluoroheptanoic acid (PFHpA)	537.1	---	2.0	< 2.0	ng/L	03/03/21 07:40	03/04/21 01:47	4838658
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537.1	---	2.0	< 2.0	ng/L	03/03/21 07:40	03/04/21 01:47	4838658
375-95-1	Perfluorononanoic acid (PFNA)	537.1	---	2.0	< 2.0	ng/L	03/03/21 07:40	03/04/21 01:47	4838658
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307-24-4	Perfluorohexanoic acid (PFHxA)	537.1	---	2.0	< 2.0	ng/L	03/03/21 07:40	03/04/21 01:47	4838658
307-55-1	Perfluorododecanoic acid (PFDoA)	537.1	---	2.0	< 2.0	ng/L	03/03/21 07:40	03/04/21 01:47	4838658
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	537.1	---	2.0	< 2.0	ng/L	03/03/21 07:40	03/04/21 01:47	4838658
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537.1	---	2.0	< 2.0	ng/L	03/03/21 07:40	03/04/21 01:47	4838658
376-06-7	Perfluorotetradecanoic acid (PFTeDA)	537.1	---	2.0	< 2.0	ng/L	03/03/21 07:40	03/04/21 01:47	4838658

† 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.

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110 S. Hill Street Pm 2/23/21
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 419763
Batch # 510951

www.eatonanalytical.com

Shaded area for EEA use only

CHAIN OF CUSTODY RECORD

Page 1 of 1

REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Analytical Balance	B. Cookerly	4244001	MA	Randolph Holbrook	56047
BILL TO:	COMPLIANCE MONITORING: Yes ✓ / No	POPULATION SERVED: Com	SOURCE WATER		

	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	48 38657	2/22	10			56047-1	PFAS				4	DW	
2	↓ 658	↓	↓			FB							
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													

RELINQUISHED BY:(Signature)	DATE	TIME AM/PM	RECEIVED BY:(Signature)	DATE	TIME AM/PM
Amanda L					
RELINQUISHED BY:(Signature)	DATE	TIME AM/PM	RECEIVED BY:(Signature)	DATE	TIME AM/PM
RELINQUISHED BY:(Signature)	DATE	TIME AM/PM	RECEIVED FOR LABORATORY BY: KOnn	DATE 2-23-2021	TIME 0815 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 ____ 2.0 °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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Run Log

Run ID: **285972** Method: **537.1**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	4843482		OS	FL	03/01/2021 17:53	030121M537_1a-FL.mdb
LRB	4843451		RW	FL	03/01/2021 18:19	030121M537_1a-FL.mdb
FBL	4843452		RW	FL	03/01/2021 18:32	030121M537_1a-FL.mdb
CCM	4843483		OS	FL	03/01/2021 23:45	030121M537_1a-FL.mdb
CCH	4843484		OS	FL	03/02/2021 04:05	030121M537_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	—		1.9704	2.0	ng/L	99	50 - 150	—	—	1.0	02/26/2021 12:00	03/01/2021 17:53	4843482
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	—		2.0267	2.0	ng/L	101	50 - 150	—	—	1.0	02/26/2021 12:00	03/01/2021 17:53	4843482
CCL	IS-NMeFOSAA-d3	537.1	N/A	—		187594	187594	ng/L	100	50 - 150	—	—	1.0	02/26/2021 12:00	03/01/2021 17:53	4843482
CCL	IS-PFOA-13C2	537.1	N/A	—		413853	413853	ng/L	100	50 - 150	—	—	1.0	02/26/2021 12:00	03/01/2021 17:53	4843482
CCL	IS-PFOS-13C4	537.1	N/A	—		202881	202881	ng/L	100	50 - 150	—	—	1.0	02/26/2021 12:00	03/01/2021 17:53	4843482
CCL	SS-NEtFOSAA-d5	537.1	N/A	—		153.4930	160	ng/L	96	70 - 130	—	—	1.0	02/26/2021 12:00	03/01/2021 17:53	4843482
CCL	SS-PFDA-13C2	537.1	N/A	—		38.9407	40.0	ng/L	97	70 - 130	—	—	1.0	02/26/2021 12:00	03/01/2021 17:53	4843482
CCL	SS-PFHxA-13C2	537.1	N/A	—		39.0229	40.0	ng/L	98	70 - 130	—	—	1.0	02/26/2021 12:00	03/01/2021 17:53	4843482
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	—		1.6933	2.0	ng/L	85	50 - 150	—	—	1.0	02/26/2021 12:00	03/01/2021 17:53	4843482
CCL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	—		1.9446	2.0	ng/L	97	50 - 150	—	—	1.0	02/26/2021 12:00	03/01/2021 17:53	4843482
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	—		1.9787	2.0	ng/L	99	50 - 150	—	—	1.0	02/26/2021 12:00	03/01/2021 17:53	4843482
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	—		1.8620	2.0	ng/L	93	50 - 150	—	—	1.0	02/26/2021 12:00	03/01/2021 17:53	4843482
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	—		1.8595	2.0	ng/L	93	50 - 150	—	—	1.0	02/26/2021 12:00	03/01/2021 17:53	4843482
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	—		1.8283	2.0	ng/L	91	50 - 150	—	—	1.0	02/26/2021 12:00	03/01/2021 17:53	4843482
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	—		1.9619	2.0	ng/L	98	50 - 150	—	—	1.0	02/26/2021 12:00	03/01/2021 17:53	4843482
CCL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	—		2.0403	2.0	ng/L	102	50 - 150	—	—	1.0	02/26/2021 12:00	03/01/2021 17:53	4843482
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	—		1.9189	2.0	ng/L	96	50 - 150	—	—	1.0	02/26/2021 12:00	03/01/2021 17:53	4843482
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	—		2.0747	2.0	ng/L	104	50 - 150	—	—	1.0	02/26/2021 12:00	03/01/2021 17:53	4843482
CCL	SS-HFPO-DA-13C3	537.1	N/A	—		39.7536	40.0	ng/L	99	70 - 130	—	—	1.0	02/26/2021 12:00	03/01/2021 17:53	4843482
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 06:40	03/01/2021 18:19	4843451
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 06:40	03/01/2021 18:19	4843451
LRB	IS-NMeFOSAA-d3	537.1	N/A	—		181544	187594	ng/L	97	50 - 150	—	—	1.0	03/01/2021 06:40	03/01/2021 18:19	4843451
LRB	IS-PFOA-13C2	537.1	N/A	—		401789	413853	ng/L	97	50 - 150	—	—	1.0	03/01/2021 06:40	03/01/2021 18:19	4843451
LRB	IS-PFOS-13C4	537.1	N/A	—		189587	202881	ng/L	93	50 - 150	—	—	1.0	03/01/2021 06:40	03/01/2021 18:19	4843451
LRB	SS-NEtFOSAA-d5	537.1	N/A	—		135.6110	160	ng/L	85	70 - 130	—	—	1.0	03/01/2021 06:40	03/01/2021 18:19	4843451
LRB	SS-PFDA-13C2	537.1	N/A	—		34.6471	40.0	ng/L	87	70 - 130	—	—	1.0	03/01/2021 06:40	03/01/2021 18:19	4843451
LRB	SS-PFHxA-13C2	537.1	N/A	—		35.2882	40.0	ng/L	88	70 - 130	—	—	1.0	03/01/2021 06:40	03/01/2021 18:19	4843451
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 06:40	03/01/2021 18:19	4843451
LRB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 06:40	03/01/2021 18:19	4843451
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 06:40	03/01/2021 18:19	4843451
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 06:40	03/01/2021 18:19	4843451
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 06:40	03/01/2021 18:19	4843451
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 06:40	03/01/2021 18:19	4843451
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 06:40	03/01/2021 18:19	4843451
LRB	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 06:40	03/01/2021 18:19	4843451
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 06:40	03/01/2021 18:19	4843451
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 06:40	03/01/2021 18:19	4843451
LRB	SS-HFPO-DA-13C3	537.1	N/A	—		38.6331	40.0	ng/L	97	70 - 130	—	—	1.0	03/01/2021 06:40	03/01/2021 18:19	4843451
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	—		2.3233	2.0	ng/L	116	50 - 150	—	—	1.0	03/01/2021 06:40	03/01/2021 18:32	4843452
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	—		2.2683	2.0	ng/L	113	50 - 150	—	—	1.0	03/01/2021 06:40	03/01/2021 18:32	4843452

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	—		183516	187594	ng/L	98	50 - 150	—	—	1.0	03/01/2021 06:40	03/01/2021 18:32	4843452
FBL	IS-PFOA-13C2	537.1	N/A	—		405764	413853	ng/L	98	50 - 150	—	—	1.0	03/01/2021 06:40	03/01/2021 18:32	4843452
FBL	IS-PFOS-13C4	537.1	N/A	—		194079	202881	ng/L	96	50 - 150	—	—	1.0	03/01/2021 06:40	03/01/2021 18:32	4843452
FBL	SS-NEtFOSAA-d5	537.1	N/A	—		134.9580	160	ng/L	84	70 - 130	—	—	1.0	03/01/2021 06:40	03/01/2021 18:32	4843452
FBL	SS-PFDA-13C2	537.1	N/A	—		34.3767	40.0	ng/L	86	70 - 130	—	—	1.0	03/01/2021 06:40	03/01/2021 18:32	4843452
FBL	SS-PFHxA-13C2	537.1	N/A	—		36.1352	40.0	ng/L	90	70 - 130	—	—	1.0	03/01/2021 06:40	03/01/2021 18:32	4843452
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	—		1.8467	2.0	ng/L	92	50 - 150	—	—	1.0	03/01/2021 06:40	03/01/2021 18:32	4843452
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	—		2.2643	2.0	ng/L	113	50 - 150	—	—	1.0	03/01/2021 06:40	03/01/2021 18:32	4843452
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	—		2.2841	2.0	ng/L	114	50 - 150	—	—	1.0	03/01/2021 06:40	03/01/2021 18:32	4843452
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	—		2.1050	2.0	ng/L	105	50 - 150	—	—	1.0	03/01/2021 06:40	03/01/2021 18:32	4843452
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	—		2.0960	2.0	ng/L	105	50 - 150	—	—	1.0	03/01/2021 06:40	03/01/2021 18:32	4843452
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	—		2.2476	2.0	ng/L	112	50 - 150	—	—	1.0	03/01/2021 06:40	03/01/2021 18:32	4843452
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	—		2.1166	2.0	ng/L	106	50 - 150	—	—	1.0	03/01/2021 06:40	03/01/2021 18:32	4843452
FBL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	—		2.1393	2.0	ng/L	107	50 - 150	—	—	1.0	03/01/2021 06:40	03/01/2021 18:32	4843452
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	—		2.0822	2.0	ng/L	104	50 - 150	—	—	1.0	03/01/2021 06:40	03/01/2021 18:32	4843452
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	—		2.1176	2.0	ng/L	106	50 - 150	—	—	1.0	03/01/2021 06:40	03/01/2021 18:32	4843452
FBL	SS-HFPO-DA-13C3	537.1	N/A	—		38.4534	40.0	ng/L	96	70 - 130	—	—	1.0	03/01/2021 06:40	03/01/2021 18:32	4843452
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	—		98.2170	100	ng/L	98	70 - 130	—	—	1.0	02/26/2021 12:00	03/01/2021 23:45	4843483
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	—		97.8952	100	ng/L	98	70 - 130	—	—	1.0	02/26/2021 12:00	03/01/2021 23:45	4843483
CCM	IS-NMeFOSAA-d3	537.1	N/A	—		184492	184492	ng/L	100	50 - 150	—	—	1.0	02/26/2021 12:00	03/01/2021 23:45	4843483
CCM	IS-PFOA-13C2	537.1	N/A	—		431049	431049	ng/L	100	50 - 150	—	—	1.0	02/26/2021 12:00	03/01/2021 23:45	4843483
CCM	IS-PFOS-13C4	537.1	N/A	—		197768	197768	ng/L	100	50 - 150	—	—	1.0	02/26/2021 12:00	03/01/2021 23:45	4843483
CCM	SS-NEtFOSAA-d5	537.1	N/A	—		156.1180	160	ng/L	98	70 - 130	—	—	1.0	02/26/2021 12:00	03/01/2021 23:45	4843483
CCM	SS-PFDA-13C2	537.1	N/A	—		34.4904	40.0	ng/L	86	70 - 130	—	—	1.0	02/26/2021 12:00	03/01/2021 23:45	4843483
CCM	SS-PFHxA-13C2	537.1	N/A	—		44.6348	40.0	ng/L	112	70 - 130	—	—	1.0	02/26/2021 12:00	03/01/2021 23:45	4843483
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	—		106.8130	100	ng/L	107	70 - 130	—	—	1.0	02/26/2021 12:00	03/01/2021 23:45	4843483
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	—		110.0370	100	ng/L	110	70 - 130	—	—	1.0	02/26/2021 12:00	03/01/2021 23:45	4843483
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	—		107.0520	100	ng/L	107	70 - 130	—	—	1.0	02/26/2021 12:00	03/01/2021 23:45	4843483
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	—		95.4695	100	ng/L	95	70 - 130	—	—	1.0	02/26/2021 12:00	03/01/2021 23:45	4843483
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	—		83.8927	100	ng/L	84	70 - 130	—	—	1.0	02/26/2021 12:00	03/01/2021 23:45	4843483
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	—		105.9860	100	ng/L	106	70 - 130	—	—	1.0	02/26/2021 12:00	03/01/2021 23:45	4843483
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	—		96.2741	100	ng/L	96	70 - 130	—	—	1.0	02/26/2021 12:00	03/01/2021 23:45	4843483
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	—		96.5839	100	ng/L	97	70 - 130	—	—	1.0	02/26/2021 12:00	03/01/2021 23:45	4843483
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	—		93.4370	100	ng/L	93	70 - 130	—	—	1.0	02/26/2021 12:00	03/01/2021 23:45	4843483
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	—		95.5944	100	ng/L	96	70 - 130	—	—	1.0	02/26/2021 12:00	03/01/2021 23:45	4843483
CCM	SS-HFPO-DA-13C3	537.1	N/A	—		44.0607	40.0	ng/L	110	70 - 130	—	—	1.0	02/26/2021 12:00	03/01/2021 23:45	4843483
CCH	Perfluorooctanoic acid (PFOA)	537.1	2.0	—		215.6440	200	ng/L	108	70 - 130	—	—	1.0	02/26/2021 12:00	03/02/2021 04:05	4843484
CCH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	—		206.3320	200	ng/L	103	70 - 130	—	—	1.0	02/26/2021 12:00	03/02/2021 04:05	4843484
CCH	IS-NMeFOSAA-d3	537.1	N/A	—		155623	155623	ng/L	100	50 - 150	—	—	1.0	02/26/2021 12:00	03/02/2021 04:05	4843484
CCH	IS-PFOA-13C2	537.1	N/A	—		375430	375430	ng/L	100	50 - 150	—	—	1.0	02/26/2021 12:00	03/02/2021 04:05	4843484
CCH	IS-PFOS-13C4	537.1	N/A	—		172236	172236	ng/L	100	50 - 150	—	—	1.0	02/26/2021 12:00	03/02/2021 04:05	4843484

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 #
CCH	SS-NEtFOSAA-d5	537.1	N/A	—		166.7700	160	ng/L	104	70 - 130	—	—	1.0	02/26/2021 12:00	03/02/2021 04:05	4843484
CCH	SS-PFDA-13C2	537.1	N/A	—		35.1346	40.0	ng/L	88	70 - 130	—	—	1.0	02/26/2021 12:00	03/02/2021 04:05	4843484
CCH	SS-PFHxA-13C2	537.1	N/A	—		50.0999	40.0	ng/L	125	70 - 130	—	—	1.0	02/26/2021 12:00	03/02/2021 04:05	4843484
CCH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	—		234.1600	200	ng/L	117	70 - 130	—	—	1.0	02/26/2021 12:00	03/02/2021 04:05	4843484
CCH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	—		245.2870	200	ng/L	123	70 - 130	—	—	1.0	02/26/2021 12:00	03/02/2021 04:05	4843484
CCH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	—		232.6720	200	ng/L	116	70 - 130	—	—	1.0	02/26/2021 12:00	03/02/2021 04:05	4843484
CCH	Perfluorononanoic acid (PFNA)	537.1	2.0	—		205.2610	200	ng/L	103	70 - 130	—	—	1.0	02/26/2021 12:00	03/02/2021 04:05	4843484
CCH	Perfluorodecanoic acid (PFDA)	537.1	2.0	—		177.0450	200	ng/L	89	70 - 130	—	—	1.0	02/26/2021 12:00	03/02/2021 04:05	4843484
CCH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	—		243.4690	200	ng/L	122	70 - 130	—	—	1.0	02/26/2021 12:00	03/02/2021 04:05	4843484
CCH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	—		206.5510	200	ng/L	103	70 - 130	—	—	1.0	02/26/2021 12:00	03/02/2021 04:05	4843484
CCH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	—		208.8850	200	ng/L	104	70 - 130	—	—	1.0	02/26/2021 12:00	03/02/2021 04:05	4843484
CCH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	—		199.8220	200	ng/L	100	70 - 130	—	—	1.0	02/26/2021 12:00	03/02/2021 04:05	4843484
CCH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	—		201.3680	200	ng/L	101	70 - 130	—	—	1.0	02/26/2021 12:00	03/02/2021 04:05	4843484
CCH	SS-HFPO-DA-13C3	537.1	N/A	—		51.6215	40.0	ng/L	129	70 - 130	—	—	1.0	02/26/2021 12:00	03/02/2021 04:05	4843484

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Run Log

Run ID: **286023** Method: **537.1**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	4843423		OS	GA	03/01/2021 20:32	030121M537.1a.wiff
LRB	4843429		RW	GA	03/01/2021 20:54	030121M537.1a.wiff
FBL	4843431		RW	GA	03/01/2021 21:04	030121M537.1a.wiff
FBM	4843433		RW	GA	03/01/2021 21:15	030121M537.1a.wiff
FS	4838657	56047-1	DW	GA	03/01/2021 22:29	030121M537.1a.wiff
CCM	4843425		OS	GA	03/01/2021 23:33	030121M537.1a.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	—		1.8909	2.0	ng/L	95	50 - 150	—	—	1.0	02/25/2021 00:36	03/01/2021 20:32	4843423
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	—		1.9141	2.0	ng/L	96	50 - 150	—	—	1.0	02/25/2021 00:36	03/01/2021 20:32	4843423
CCL	IS-NMeFOSAA-d3	537.1	N/A	—		807003	807003.38	ng/L	100	50 - 150	—	—	1.0	02/25/2021 00:36	03/01/2021 20:32	4843423
CCL	IS-PFOA-13C2	537.1	N/A	—		1184939	1184939.47	ng/L	100	50 - 150	—	—	1.0	02/25/2021 00:36	03/01/2021 20:32	4843423
CCL	IS-PFOS-13C4	537.1	N/A	—		4780525	4780525.43	ng/L	100	50 - 150	—	—	1.0	02/25/2021 00:36	03/01/2021 20:32	4843423
CCL	SS-NEtFOSAA-d5	537.1	N/A	—		159.8440	160	ng/L	100	70 - 130	—	—	1.0	02/25/2021 00:36	03/01/2021 20:32	4843423
CCL	SS-PFDA-13C2	537.1	N/A	—		39.4510	40.0	ng/L	99	70 - 130	—	—	1.0	02/25/2021 00:36	03/01/2021 20:32	4843423
CCL	SS-PFHxA-13C2	537.1	N/A	—		41.8641	40.0	ng/L	105	70 - 130	—	—	1.0	02/25/2021 00:36	03/01/2021 20:32	4843423
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	—		1.7695	2.0	ng/L	88	50 - 150	—	—	1.0	02/25/2021 00:36	03/01/2021 20:32	4843423
CCL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	—		1.9235	2.0	ng/L	96	50 - 150	—	—	1.0	02/25/2021 00:36	03/01/2021 20:32	4843423
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	—		1.8169	2.0	ng/L	91	50 - 150	—	—	1.0	02/25/2021 00:36	03/01/2021 20:32	4843423
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	—		1.7859	2.0	ng/L	89	50 - 150	—	—	1.0	02/25/2021 00:36	03/01/2021 20:32	4843423
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	—		1.9266	2.0	ng/L	96	50 - 150	—	—	1.0	02/25/2021 00:36	03/01/2021 20:32	4843423
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	—		1.7807	2.0	ng/L	89	50 - 150	—	—	1.0	02/25/2021 00:36	03/01/2021 20:32	4843423
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	—		1.8529	2.0	ng/L	93	50 - 150	—	—	1.0	02/25/2021 00:36	03/01/2021 20:32	4843423
CCL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	—		1.7727	2.0	ng/L	89	50 - 150	—	—	1.0	02/25/2021 00:36	03/01/2021 20:32	4843423
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	—		1.7797	2.0	ng/L	89	50 - 150	—	—	1.0	02/25/2021 00:36	03/01/2021 20:32	4843423
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	—		1.6663	2.0	ng/L	83	50 - 150	—	—	1.0	02/25/2021 00:36	03/01/2021 20:32	4843423
CCL	SS-HFPO-DA-13C3	537.1	N/A	—		38.1316	40.0	ng/L	95	70 - 130	—	—	1.0	02/25/2021 00:36	03/01/2021 20:32	4843423
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 07:46	03/01/2021 20:54	4843429
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 07:46	03/01/2021 20:54	4843429
LRB	IS-NMeFOSAA-d3	537.1	N/A	—		746208	807003.38	ng/L	92	50 - 150	—	—	1.0	03/01/2021 07:46	03/01/2021 20:54	4843429
LRB	IS-PFOA-13C2	537.1	N/A	—		1078399	1184939.47	ng/L	91	50 - 150	—	—	1.0	03/01/2021 07:46	03/01/2021 20:54	4843429
LRB	IS-PFOS-13C4	537.1	N/A	—		4296675	4780525.43	ng/L	90	50 - 150	—	—	1.0	03/01/2021 07:46	03/01/2021 20:54	4843429
LRB	SS-NEtFOSAA-d5	537.1	N/A	—		140.0017	160	ng/L	88	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 20:54	4843429
LRB	SS-PFDA-13C2	537.1	N/A	—		38.5301	40.0	ng/L	96	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 20:54	4843429
LRB	SS-PFHxA-13C2	537.1	N/A	—		37.3113	40.0	ng/L	93	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 20:54	4843429
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 07:46	03/01/2021 20:54	4843429
LRB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 07:46	03/01/2021 20:54	4843429
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 07:46	03/01/2021 20:54	4843429
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 07:46	03/01/2021 20:54	4843429
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 07:46	03/01/2021 20:54	4843429
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 07:46	03/01/2021 20:54	4843429
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 07:46	03/01/2021 20:54	4843429
LRB	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 07:46	03/01/2021 20:54	4843429
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 07:46	03/01/2021 20:54	4843429
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/01/2021 07:46	03/01/2021 20:54	4843429
LRB	SS-HFPO-DA-13C3	537.1	N/A	—		36.4368	40.0	ng/L	91	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 20:54	4843429
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	—		2.2743	2.0	ng/L	114	50 - 150	—	—	1.0	03/01/2021 07:46	03/01/2021 21:04	4843431
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	—		2.2420	2.0	ng/L	112	50 - 150	—	—	1.0	03/01/2021 07:46	03/01/2021 21:04	4843431

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	—		758914	807003.38	ng/L	94	50 - 150	—	—	1.0	03/01/2021 07:46	03/01/2021 21:04	4843431
FBL	IS-PFOA-13C2	537.1	N/A	—		1084929	1184939.47	ng/L	92	50 - 150	—	—	1.0	03/01/2021 07:46	03/01/2021 21:04	4843431
FBL	IS-PFOS-13C4	537.1	N/A	—		4378217	4780525.43	ng/L	92	50 - 150	—	—	1.0	03/01/2021 07:46	03/01/2021 21:04	4843431
FBL	SS-NEtFOSAA-d5	537.1	N/A	—		137.6337	160	ng/L	86	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 21:04	4843431
FBL	SS-PFDA-13C2	537.1	N/A	—		37.5401	40.0	ng/L	94	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 21:04	4843431
FBL	SS-PFHxA-13C2	537.1	N/A	—		37.1248	40.0	ng/L	93	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 21:04	4843431
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	—		2.0213	2.0	ng/L	101	50 - 150	—	—	1.0	03/01/2021 07:46	03/01/2021 21:04	4843431
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	—		2.2133	2.0	ng/L	111	50 - 150	—	—	1.0	03/01/2021 07:46	03/01/2021 21:04	4843431
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	—		2.2307	2.0	ng/L	112	50 - 150	—	—	1.0	03/01/2021 07:46	03/01/2021 21:04	4843431
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	—		2.2881	2.0	ng/L	114	50 - 150	—	—	1.0	03/01/2021 07:46	03/01/2021 21:04	4843431
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	—		2.1531	2.0	ng/L	108	50 - 150	—	—	1.0	03/01/2021 07:46	03/01/2021 21:04	4843431
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	—		2.1225	2.0	ng/L	106	50 - 150	—	—	1.0	03/01/2021 07:46	03/01/2021 21:04	4843431
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	—		2.0146	2.0	ng/L	101	50 - 150	—	—	1.0	03/01/2021 07:46	03/01/2021 21:04	4843431
FBL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	—		2.0866	2.0	ng/L	104	50 - 150	—	—	1.0	03/01/2021 07:46	03/01/2021 21:04	4843431
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	—		2.3734	2.0	ng/L	119	50 - 150	—	—	1.0	03/01/2021 07:46	03/01/2021 21:04	4843431
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	—		2.3430	2.0	ng/L	117	50 - 150	—	—	1.0	03/01/2021 07:46	03/01/2021 21:04	4843431
FBL	SS-HFPO-DA-13C3	537.1	N/A	—		35.2685	40.0	ng/L	88	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 21:04	4843431
FBM	Perfluorooctanoic acid (PFOA)	537.1	2.0	—		110.0446	100	ng/L	110	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 21:15	4843433
FBM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	—		105.7685	100	ng/L	106	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 21:15	4843433
FBM	IS-NMeFOSAA-d3	537.1	N/A	—		754150	807003.38	ng/L	93	50 - 150	—	—	1.0	03/01/2021 07:46	03/01/2021 21:15	4843433
FBM	IS-PFOA-13C2	537.1	N/A	—		1060172	1184939.47	ng/L	89	50 - 150	—	—	1.0	03/01/2021 07:46	03/01/2021 21:15	4843433
FBM	IS-PFOS-13C4	537.1	N/A	—		4285375	4780525.43	ng/L	90	50 - 150	—	—	1.0	03/01/2021 07:46	03/01/2021 21:15	4843433
FBM	SS-NEtFOSAA-d5	537.1	N/A	—		135.5949	160	ng/L	85	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 21:15	4843433
FBM	SS-PFDA-13C2	537.1	N/A	—		37.9596	40.0	ng/L	95	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 21:15	4843433
FBM	SS-PFHxA-13C2	537.1	N/A	—		37.8773	40.0	ng/L	95	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 21:15	4843433
FBM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	—		106.5841	100	ng/L	107	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 21:15	4843433
FBM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	—		109.2248	100	ng/L	109	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 21:15	4843433
FBM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	—		109.2963	100	ng/L	109	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 21:15	4843433
FBM	Perfluorononanoic acid (PFNA)	537.1	2.0	—		109.3636	100	ng/L	109	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 21:15	4843433
FBM	Perfluorodecanoic acid (PFDA)	537.1	2.0	—		111.0469	100	ng/L	111	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 21:15	4843433
FBM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	—		102.2373	100	ng/L	102	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 21:15	4843433
FBM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	—		106.6327	100	ng/L	107	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 21:15	4843433
FBM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	—		103.5074	100	ng/L	104	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 21:15	4843433
FBM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	—		110.1351	100	ng/L	110	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 21:15	4843433
FBM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	—		102.4966	100	ng/L	102	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 21:15	4843433
FBM	SS-HFPO-DA-13C3	537.1	N/A	—		35.2088	40.0	ng/L	88	70 - 130	—	—	1.0	03/01/2021 07:46	03/01/2021 21:15	4843433
FS	Perfluorooctanoic acid (PFOA)	537.1	2.0	56047-1		6.2		ng/L	—	—	—	—	0.89	03/01/2021 07:46	03/01/2021 22:29	4838657
FS	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	56047-1		9.5		ng/L	—	—	—	—	0.89	03/01/2021 07:46	03/01/2021 22:29	4838657
FS	IS-NMeFOSAA-d3	537.1	N/A	56047-1		795343	807003.38	ng/L	99	50 - 150	—	—	0.89	03/01/2021 07:46	03/01/2021 22:29	4838657
FS	IS-PFOA-13C2	537.1	N/A	56047-1		1078883	1184939.47	ng/L	91	50 - 150	—	—	0.89	03/01/2021 07:46	03/01/2021 22:29	4838657
FS	IS-PFOS-13C4	537.1	N/A	56047-1		4633062	4780525.43	ng/L	97	50 - 150	—	—	0.89	03/01/2021 07:46	03/01/2021 22:29	4838657

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	56047-1		113.8004	160	ng/L	80	70 - 130	—	—	0.89	03/01/2021 07:46	03/01/2021 22:29	4838657
FS	SS-PFDA-13C2	537.1	N/A	56047-1		33.7085	40.0	ng/L	95	70 - 130	—	—	0.89	03/01/2021 07:46	03/01/2021 22:29	4838657
FS	SS-PFHxA-13C2	537.1	N/A	56047-1		32.8690	40.0	ng/L	92	70 - 130	—	—	0.89	03/01/2021 07:46	03/01/2021 22:29	4838657
FS	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	56047-1		2.6		ng/L	—	—	—	—	0.89	03/01/2021 07:46	03/01/2021 22:29	4838657
FS	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	56047-1		2.6		ng/L	—	—	—	—	0.89	03/01/2021 07:46	03/01/2021 22:29	4838657
FS	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	56047-1		2.9		ng/L	—	—	—	—	0.89	03/01/2021 07:46	03/01/2021 22:29	4838657
FS	Perfluorononanoic acid (PFNA)	537.1	2.0	56047-1	J	1.0		ng/L	—	—	—	—	0.89	03/01/2021 07:46	03/01/2021 22:29	4838657
FS	Perfluorodecanoic acid (PFDA)	537.1	2.0	56047-1	<	2.0		ng/L	—	—	—	—	0.89	03/01/2021 07:46	03/01/2021 22:29	4838657
FS	Perfluorohexanoic acid (PFHxA)	537.1	2.0	56047-1		3.8		ng/L	—	—	—	—	0.89	03/01/2021 07:46	03/01/2021 22:29	4838657
FS	Perfluorododecanoic acid (PFDoA)	537.1	2.0	56047-1	<	2.0		ng/L	—	—	—	—	0.89	03/01/2021 07:46	03/01/2021 22:29	4838657
FS	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	56047-1	<	2.0		ng/L	—	—	—	—	0.89	03/01/2021 07:46	03/01/2021 22:29	4838657
FS	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	56047-1	<	2.0		ng/L	—	—	—	—	0.89	03/01/2021 07:46	03/01/2021 22:29	4838657
FS	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	56047-1	<	2.0		ng/L	—	—	—	—	0.89	03/01/2021 07:46	03/01/2021 22:29	4838657
FS	SS-HFPO-DA-13C3	537.1	N/A	56047-1		33.4203	40.0	ng/L	94	70 - 130	—	—	0.89	03/01/2021 07:46	03/01/2021 22:29	4838657
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	—		98.6721	100	ng/L	99	70 - 130	—	—	1.0	02/25/2021 00:36	03/01/2021 23:33	4843425
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	—		96.4421	100	ng/L	96	70 - 130	—	—	1.0	02/25/2021 00:36	03/01/2021 23:33	4843425
CCM	IS-NMeFOSAA-d3	537.1	N/A	—		879503	879502.77	ng/L	100	50 - 150	—	—	1.0	02/25/2021 00:36	03/01/2021 23:33	4843425
CCM	IS-PFOA-13C2	537.1	N/A	—		1217893	1217893.45	ng/L	100	50 - 150	—	—	1.0	02/25/2021 00:36	03/01/2021 23:33	4843425
CCM	IS-PFOS-13C4	537.1	N/A	—		5141354	5141353.9	ng/L	100	50 - 150	—	—	1.0	02/25/2021 00:36	03/01/2021 23:33	4843425
CCM	SS-NEtFOSAA-d5	537.1	N/A	—		158.6139	160	ng/L	99	70 - 130	—	—	1.0	02/25/2021 00:36	03/01/2021 23:33	4843425
CCM	SS-PFDA-13C2	537.1	N/A	—		40.3629	40.0	ng/L	101	70 - 130	—	—	1.0	02/25/2021 00:36	03/01/2021 23:33	4843425
CCM	SS-PFHxA-13C2	537.1	N/A	—		41.9860	40.0	ng/L	105	70 - 130	—	—	1.0	02/25/2021 00:36	03/01/2021 23:33	4843425
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	—		96.6957	100	ng/L	97	70 - 130	—	—	1.0	02/25/2021 00:36	03/01/2021 23:33	4843425
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	—		102.1955	100	ng/L	102	70 - 130	—	—	1.0	02/25/2021 00:36	03/01/2021 23:33	4843425
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	—		94.5192	100	ng/L	95	70 - 130	—	—	1.0	02/25/2021 00:36	03/01/2021 23:33	4843425
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	—		103.4148	100	ng/L	103	70 - 130	—	—	1.0	02/25/2021 00:36	03/01/2021 23:33	4843425
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	—		101.4680	100	ng/L	101	70 - 130	—	—	1.0	02/25/2021 00:36	03/01/2021 23:33	4843425
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	—		101.5784	100	ng/L	102	70 - 130	—	—	1.0	02/25/2021 00:36	03/01/2021 23:33	4843425
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	—		100.8351	100	ng/L	101	70 - 130	—	—	1.0	02/25/2021 00:36	03/01/2021 23:33	4843425
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	—		101.5461	100	ng/L	102	70 - 130	—	—	1.0	02/25/2021 00:36	03/01/2021 23:33	4843425
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	—		107.4038	100	ng/L	107	70 - 130	—	—	1.0	02/25/2021 00:36	03/01/2021 23:33	4843425
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	—		102.3541	100	ng/L	102	70 - 130	—	—	1.0	02/25/2021 00:36	03/01/2021 23:33	4843425
CCM	SS-HFPO-DA-13C3	537.1	N/A	—		41.5734	40.0	ng/L	104	70 - 130	—	—	1.0	02/25/2021 00:36	03/01/2021 23:33	4843425

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Run Log

Run ID: **286095** Method: **537.1**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	4845322		OS	DQ	03/03/2021 19:45	030321M537_1a-DQ.mdb
LRB	4845432		RW	DQ	03/03/2021 20:10	030321M537_1a-DQ.mdb
FBL	4845433		RW	DQ	03/03/2021 20:23	030321M537_1a-DQ.mdb
CCM	4845323		OS	DQ	03/04/2021 00:55	030321M537_1a-DQ.mdb
FTB	4838658	56047-1 FTB	RW	DQ	03/04/2021 01:47	030321M537_1a-DQ.mdb
CCH	4845324		OS	DQ	03/04/2021 06:06	030321M537_1a-DQ.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	—		2.1422	2.0	ng/L	107	50 - 150	—	—	1.0	03/03/2021 12:46	03/03/2021 19:45	4845322
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	—		2.1243	2.0	ng/L	106	50 - 150	—	—	1.0	03/03/2021 12:46	03/03/2021 19:45	4845322
CCL	IS-NMeFOSAA-d3	537.1	N/A	—		250307	250307	ng/L	100	50 - 150	—	—	1.0	03/03/2021 12:46	03/03/2021 19:45	4845322
CCL	IS-PFOA-13C2	537.1	N/A	—		431999	431999	ng/L	100	50 - 150	—	—	1.0	03/03/2021 12:46	03/03/2021 19:45	4845322
CCL	IS-PFOS-13C4	537.1	N/A	—		239300	239300	ng/L	100	50 - 150	—	—	1.0	03/03/2021 12:46	03/03/2021 19:45	4845322
CCL	SS-NEtFOSAA-d5	537.1	N/A	—		169.6220	160	ng/L	106	70 - 130	—	—	1.0	03/03/2021 12:46	03/03/2021 19:45	4845322
CCL	SS-PFDA-13C2	537.1	N/A	—		40.5793	40.0	ng/L	101	70 - 130	—	—	1.0	03/03/2021 12:46	03/03/2021 19:45	4845322
CCL	SS-PFHxA-13C2	537.1	N/A	—		40.3917	40.0	ng/L	101	70 - 130	—	—	1.0	03/03/2021 12:46	03/03/2021 19:45	4845322
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	—		1.9629	2.0	ng/L	98	50 - 150	—	—	1.0	03/03/2021 12:46	03/03/2021 19:45	4845322
CCL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	—		2.1062	2.0	ng/L	105	50 - 150	—	—	1.0	03/03/2021 12:46	03/03/2021 19:45	4845322
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	—		1.9503	2.0	ng/L	98	50 - 150	—	—	1.0	03/03/2021 12:46	03/03/2021 19:45	4845322
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	—		2.2028	2.0	ng/L	110	50 - 150	—	—	1.0	03/03/2021 12:46	03/03/2021 19:45	4845322
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	—		2.1292	2.0	ng/L	106	50 - 150	—	—	1.0	03/03/2021 12:46	03/03/2021 19:45	4845322
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	—		2.1053	2.0	ng/L	105	50 - 150	—	—	1.0	03/03/2021 12:46	03/03/2021 19:45	4845322
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	—		2.1342	2.0	ng/L	107	50 - 150	—	—	1.0	03/03/2021 12:46	03/03/2021 19:45	4845322
CCL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	—		2.0642	2.0	ng/L	103	50 - 150	—	—	1.0	03/03/2021 12:46	03/03/2021 19:45	4845322
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	—		2.2222	2.0	ng/L	111	50 - 150	—	—	1.0	03/03/2021 12:46	03/03/2021 19:45	4845322
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	—		2.1480	2.0	ng/L	107	50 - 150	—	—	1.0	03/03/2021 12:46	03/03/2021 19:45	4845322
CCL	SS-HFPO-DA-13C3	537.1	N/A	—		41.0836	40.0	ng/L	103	70 - 130	—	—	1.0	03/03/2021 12:46	03/03/2021 19:45	4845322
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/03/2021 07:40	03/03/2021 20:10	4845432
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/03/2021 07:40	03/03/2021 20:10	4845432
LRB	IS-NMeFOSAA-d3	537.1	N/A	—		259961	250307	ng/L	104	50 - 150	—	—	1.0	03/03/2021 07:40	03/03/2021 20:10	4845432
LRB	IS-PFOA-13C2	537.1	N/A	—		450348	431999	ng/L	104	50 - 150	—	—	1.0	03/03/2021 07:40	03/03/2021 20:10	4845432
LRB	IS-PFOS-13C4	537.1	N/A	—		249455	239300	ng/L	104	50 - 150	—	—	1.0	03/03/2021 07:40	03/03/2021 20:10	4845432
LRB	SS-NEtFOSAA-d5	537.1	N/A	—		150.6140	160	ng/L	94	70 - 130	—	—	1.0	03/03/2021 07:40	03/03/2021 20:10	4845432
LRB	SS-PFDA-13C2	537.1	N/A	—		38.0540	40.0	ng/L	95	70 - 130	—	—	1.0	03/03/2021 07:40	03/03/2021 20:10	4845432
LRB	SS-PFHxA-13C2	537.1	N/A	—		37.2042	40.0	ng/L	93	70 - 130	—	—	1.0	03/03/2021 07:40	03/03/2021 20:10	4845432
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/03/2021 07:40	03/03/2021 20:10	4845432
LRB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/03/2021 07:40	03/03/2021 20:10	4845432
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/03/2021 07:40	03/03/2021 20:10	4845432
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/03/2021 07:40	03/03/2021 20:10	4845432
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/03/2021 07:40	03/03/2021 20:10	4845432
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/03/2021 07:40	03/03/2021 20:10	4845432
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/03/2021 07:40	03/03/2021 20:10	4845432
LRB	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/03/2021 07:40	03/03/2021 20:10	4845432
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/03/2021 07:40	03/03/2021 20:10	4845432
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	—	<	2.0		ng/L	—	—	—	—	1.0	03/03/2021 07:40	03/03/2021 20:10	4845432
LRB	SS-HFPO-DA-13C3	537.1	N/A	—		37.9088	40.0	ng/L	95	70 - 130	—	—	1.0	03/03/2021 07:40	03/03/2021 20:10	4845432
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	—		1.9434	2.0	ng/L	97	50 - 150	—	—	1.0	03/03/2021 07:40	03/03/2021 20:23	4845433
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	—		1.9727	2.0	ng/L	99	50 - 150	—	—	1.0	03/03/2021 07:40	03/03/2021 20:23	4845433

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	—		265022	250307	ng/L	106	50 - 150	—	—	1.0	03/03/2021 07:40	03/03/2021 20:23	4845433
FBL	IS-PFOA-13C2	537.1	N/A	—		467061	431999	ng/L	108	50 - 150	—	—	1.0	03/03/2021 07:40	03/03/2021 20:23	4845433
FBL	IS-PFOS-13C4	537.1	N/A	—		254289	239300	ng/L	106	50 - 150	—	—	1.0	03/03/2021 07:40	03/03/2021 20:23	4845433
FBL	SS-NEtFOSAA-d5	537.1	N/A	—		142.9930	160	ng/L	89	70 - 130	—	—	1.0	03/03/2021 07:40	03/03/2021 20:23	4845433
FBL	SS-PFDA-13C2	537.1	N/A	—		36.8427	40.0	ng/L	92	70 - 130	—	—	1.0	03/03/2021 07:40	03/03/2021 20:23	4845433
FBL	SS-PFHxA-13C2	537.1	N/A	—		35.6712	40.0	ng/L	89	70 - 130	—	—	1.0	03/03/2021 07:40	03/03/2021 20:23	4845433
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	—		1.6193	2.0	ng/L	81	50 - 150	—	—	1.0	03/03/2021 07:40	03/03/2021 20:23	4845433
FBL	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	—		2.0073	2.0	ng/L	100	50 - 150	—	—	1.0	03/03/2021 07:40	03/03/2021 20:23	4845433
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	—		1.7702	2.0	ng/L	89	50 - 150	—	—	1.0	03/03/2021 07:40	03/03/2021 20:23	4845433
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	—		2.0121	2.0	ng/L	101	50 - 150	—	—	1.0	03/03/2021 07:40	03/03/2021 20:23	4845433
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	—		1.9188	2.0	ng/L	96	50 - 150	—	—	1.0	03/03/2021 07:40	03/03/2021 20:23	4845433
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	—		1.8659	2.0	ng/L	93	50 - 150	—	—	1.0	03/03/2021 07:40	03/03/2021 20:23	4845433
FBL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	—		1.8044	2.0	ng/L	90	50 - 150	—	—	1.0	03/03/2021 07:40	03/03/2021 20:23	4845433
FBL	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	—		1.7107	2.0	ng/L	86	50 - 150	—	—	1.0	03/03/2021 07:40	03/03/2021 20:23	4845433
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	—		1.9151	2.0	ng/L	96	50 - 150	—	—	1.0	03/03/2021 07:40	03/03/2021 20:23	4845433
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	—		1.6975	2.0	ng/L	85	50 - 150	—	—	1.0	03/03/2021 07:40	03/03/2021 20:23	4845433
FBL	SS-HFPO-DA-13C3	537.1	N/A	—		35.3758	40.0	ng/L	88	70 - 130	—	—	1.0	03/03/2021 07:40	03/03/2021 20:23	4845433
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0	—		100.2350	100	ng/L	100	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 00:55	4845323
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	—		96.7948	100	ng/L	97	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 00:55	4845323
CCM	IS-NMeFOSAA-d3	537.1	N/A	—		234071	234071	ng/L	100	50 - 150	—	—	1.0	03/03/2021 12:46	03/04/2021 00:55	4845323
CCM	IS-PFOA-13C2	537.1	N/A	—		419974	419974	ng/L	100	50 - 150	—	—	1.0	03/03/2021 12:46	03/04/2021 00:55	4845323
CCM	IS-PFOS-13C4	537.1	N/A	—		236263	236263	ng/L	100	50 - 150	—	—	1.0	03/03/2021 12:46	03/04/2021 00:55	4845323
CCM	SS-NEtFOSAA-d5	537.1	N/A	—		166.9880	160	ng/L	104	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 00:55	4845323
CCM	SS-PFDA-13C2	537.1	N/A	—		39.8733	40.0	ng/L	100	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 00:55	4845323
CCM	SS-PFHxA-13C2	537.1	N/A	—		40.1067	40.0	ng/L	100	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 00:55	4845323
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	—		100.1690	100	ng/L	100	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 00:55	4845323
CCM	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	—		100.2220	100	ng/L	100	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 00:55	4845323
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	—		97.9082	100	ng/L	98	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 00:55	4845323
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0	—		101.6560	100	ng/L	102	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 00:55	4845323
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0	—		98.9352	100	ng/L	99	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 00:55	4845323
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0	—		100.9020	100	ng/L	101	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 00:55	4845323
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0	—		99.7176	100	ng/L	100	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 00:55	4845323
CCM	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	—		108.2630	100	ng/L	108	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 00:55	4845323
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	—		99.4527	100	ng/L	99	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 00:55	4845323
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	—		100.3180	100	ng/L	100	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 00:55	4845323
CCM	SS-HFPO-DA-13C3	537.1	N/A	—		39.5647	40.0	ng/L	99	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 00:55	4845323
FTB	Perfluorooctanoic acid (PFOA)	537.1	2.0	56047-1 FTB	<	2.0		ng/L	—	—	—	—	0.88	03/03/2021 07:40	03/04/2021 01:47	4838658
FTB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	56047-1 FTB	<	2.0		ng/L	—	—	—	—	0.88	03/03/2021 07:40	03/04/2021 01:47	4838658
FTB	IS-NMeFOSAA-d3	537.1	N/A	56047-1 FTB		259319	234071	ng/L	111	50 - 150	—	—	0.88	03/03/2021 07:40	03/04/2021 01:47	4838658
FTB	IS-PFOA-13C2	537.1	N/A	56047-1 FTB		470119	419974	ng/L	112	50 - 150	—	—	0.88	03/03/2021 07:40	03/04/2021 01:47	4838658
FTB	IS-PFOS-13C4	537.1	N/A	56047-1 FTB		259222	236263	ng/L	110	50 - 150	—	—	0.88	03/03/2021 07:40	03/04/2021 01:47	4838658

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	56047-1 FTB		117.2980	160	ng/L	83	70 - 130	—	—	0.88	03/03/2021 07:40	03/04/2021 01:47	4838658
FTB	SS-PFDA-13C2	537.1	N/A	56047-1 FTB		29.6458	40.0	ng/L	84	70 - 130	—	—	0.88	03/03/2021 07:40	03/04/2021 01:47	4838658
FTB	SS-PFHxA-13C2	537.1	N/A	56047-1 FTB		32.5126	40.0	ng/L	92	70 - 130	—	—	0.88	03/03/2021 07:40	03/04/2021 01:47	4838658
FTB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	56047-1 FTB	<	2.0		ng/L	—	—	—	—	0.88	03/03/2021 07:40	03/04/2021 01:47	4838658
FTB	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	56047-1 FTB	<	2.0		ng/L	—	—	—	—	0.88	03/03/2021 07:40	03/04/2021 01:47	4838658
FTB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	56047-1 FTB	<	2.0		ng/L	—	—	—	—	0.88	03/03/2021 07:40	03/04/2021 01:47	4838658
FTB	Perfluorononanoic acid (PFNA)	537.1	2.0	56047-1 FTB	<	2.0		ng/L	—	—	—	—	0.88	03/03/2021 07:40	03/04/2021 01:47	4838658
FTB	Perfluorodecanoic acid (PFDA)	537.1	2.0	56047-1 FTB	<	2.0		ng/L	—	—	—	—	0.88	03/03/2021 07:40	03/04/2021 01:47	4838658
FTB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	56047-1 FTB	<	2.0		ng/L	—	—	—	—	0.88	03/03/2021 07:40	03/04/2021 01:47	4838658
FTB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	56047-1 FTB	<	2.0		ng/L	—	—	—	—	0.88	03/03/2021 07:40	03/04/2021 01:47	4838658
FTB	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	56047-1 FTB	<	2.0		ng/L	—	—	—	—	0.88	03/03/2021 07:40	03/04/2021 01:47	4838658
FTB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	56047-1 FTB	<	2.0		ng/L	—	—	—	—	0.88	03/03/2021 07:40	03/04/2021 01:47	4838658
FTB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	56047-1 FTB	<	2.0		ng/L	—	—	—	—	0.88	03/03/2021 07:40	03/04/2021 01:47	4838658
FTB	SS-HFPO-DA-13C3	537.1	N/A	56047-1 FTB		31.4476	40.0	ng/L	89	70 - 130	—	—	0.88	03/03/2021 07:40	03/04/2021 01:47	4838658
CCH	Perfluorooctanoic acid (PFOA)	537.1	2.0	—		204.5290	200	ng/L	102	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 06:06	4845324
CCH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	—		199.7050	200	ng/L	100	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 06:06	4845324
CCH	IS-NMeFOSAA-d3	537.1	N/A	—		235440	235440	ng/L	100	50 - 150	—	—	1.0	03/03/2021 12:46	03/04/2021 06:06	4845324
CCH	IS-PFOA-13C2	537.1	N/A	—		411064	411064	ng/L	100	50 - 150	—	—	1.0	03/03/2021 12:46	03/04/2021 06:06	4845324
CCH	IS-PFOS-13C4	537.1	N/A	—		236353	236353	ng/L	100	50 - 150	—	—	1.0	03/03/2021 12:46	03/04/2021 06:06	4845324
CCH	SS-NEtFOSAA-d5	537.1	N/A	—		151.1470	160	ng/L	94	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 06:06	4845324
CCH	SS-PFDA-13C2	537.1	N/A	—		39.3555	40.0	ng/L	98	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 06:06	4845324
CCH	SS-PFHxA-13C2	537.1	N/A	—		39.8246	40.0	ng/L	100	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 06:06	4845324
CCH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	—		199.7320	200	ng/L	100	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 06:06	4845324
CCH	Perfluoroheptanoic acid (PFHpA)	537.1	2.0	—		200.9920	200	ng/L	100	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 06:06	4845324
CCH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	—		204.3240	200	ng/L	102	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 06:06	4845324
CCH	Perfluorononanoic acid (PFNA)	537.1	2.0	—		203.0730	200	ng/L	102	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 06:06	4845324
CCH	Perfluorodecanoic acid (PFDA)	537.1	2.0	—		197.9310	200	ng/L	99	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 06:06	4845324
CCH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	—		204.1480	200	ng/L	102	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 06:06	4845324
CCH	Perfluorododecanoic acid (PFDoA)	537.1	2.0	—		199.6170	200	ng/L	100	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 06:06	4845324
CCH	Perfluorotridecanoic acid (PFTrDA)	537.1	2.0	—		232.7080	200	ng/L	116	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 06:06	4845324
CCH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	—		196.0310	200	ng/L	98	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 06:06	4845324
CCH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	—		217.3470	200	ng/L	109	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 06:06	4845324
CCH	SS-HFPO-DA-13C3	537.1	N/A	—		38.5757	40.0	ng/L	96	70 - 130	—	—	1.0	03/03/2021 12:46	03/04/2021 06:06	4845324

Sample Type Key

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

END OF REPORT