

# POLLEN ENVIRONMENTAL, LLC.

3536 International Street  
 Fairbanks, AK 99701  
 (907) 479-8368 Phone (907) 452-6853 Fax  
 jerry@pollenenv.com

## CHAIN OF CUSTODY/WORKORDER FORM

COC# CONP 2017

CLIENT INFORMATION		Contact Person: Paul Trissel		Requested Analysis						Page 1 of 1			
Company: City of North Pole		WWTP APDES #:		Perservative Added						<input type="checkbox"/> Normal Turnaround  <input type="checkbox"/> RUSH ____ day(s)			
Address: 125 Snowman Lane		PWS ID #: 310675 - report as special		Number of Containers	PFC'S								
City, State Zip: North Pole, AK 99705		Send Results to ADEC:											
Phone: 907-388-1907		v Yes <input type="checkbox"/> No											
Fax: 907-488-1825		Purchase Order/Charge Code:											
Email: northpoleutilities@alaska.net		2017-565											
Project Name: QC PFC Monitoring		Sampled By: JEP											
Sample Identification	Sample Date	Sample Time	Matrix	Lab ID#	Sub Lab ID#							Sample Comments	
Well A	10/3/2017	10:05 AM	W	PEF36857		2	X						
Well A Dup.	10/3/2017	10:06 AM	W	PEF36858		2	X						
Field Blank	10/3/2017	10:08 AM	W	PEF36859		2	X						
Trip Blank	10/3/2017	10:05 AM	W	PEF36860		2	X						
<b>Possible Hazard Identification:</b>						<b>Sample Condition:</b>							
<input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Unknown						Pollen Env Temperature on arrival:    °C    COC Seal: <input type="checkbox"/> Intact <input type="checkbox"/> Broken <input type="checkbox"/> Absent Sub Lab Temperature on arrival:    °C    COC Seal: <input type="checkbox"/> Intact <input type="checkbox"/> Broken <input type="checkbox"/> Absent							
<b>Special Instructions/QC Requirements &amp; Comments:</b>													
Relinquished by:	Company: Pollen Env		Date & Time: 10-4-17 @ 1100am		Received by:	Company:		Date & Time:					
Relinquished by:	Company:		Date & Time:		Received by:	Company:		Date & Time:					
Relinquished by:	Company:		Date & Time:		Received by:	Company:		Date & Time:					



**CERTIFICATE OF ANALYSIS**

**City of North Pole WTP**  
 Attn: Paul Trissel  
 125 Snowman Lane  
 North Pole, AK 99705  
 Phone: 907-388-1907  
 Fax: 907-488-1825  
 northpoleutilities@alaska.net

Report Date: 11/1/2017  
 Sample Date: 10/3/2017  
 Sample Time: 10:05-10:08 AM  
 Sampled By: Jerry Pollen

Project Name: **CONP WTP PFC Monitoring**  
 Analysis: **PFC'S**  
 Analysis Method: **EPA 537**  
 COC#: **CONP 2017**  
 Sample Matrix: **Drinking Water**  
 PWS ID#: **AK2310675**

Attached are the results for analysis of your samples. This sample was analyzed by Eurofins Eaton Analytical in South Bend, IN.

<b>Client Sample ID:</b>	<b>Pollen Env ID:</b>	<b>Eurofins Eaton Analytical ID:</b>
Well A	PEF36857	3793429
Well A Dup.	PEF36858	3793430
Field Blank*	PEF36859	3793431
Travel Blank	PEF36860	3793432

\*PFC reagent water added to Field Blank bottle at the time and location of Well A sample collection.

Comments: Well A sample result for PFHxS is 1.9ng/L. This result is slightly below the laboratories detection limit of 2.0ng/L, so the report indicates the result is <2.0ng/L. This is being addressed due to the detection of 2.0ng/L of PFHxS in the Well A Dup. sample.

**Jerry Pollen**  
**Pollen Environmental, LLC - Fairbanks**

## LABORATORY REPORT

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

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## STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN035	New Jersey*	IN598
Colorado Radiochemistry	IN035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida*	E87775	North Dakota	R-035
Georgia	929	Ohio	87775
Hawaii	IN035	Oklahoma	D9508
Idaho	IN00035	Oregon (Primary AB)*	4074-001
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*	T104704187-15-8
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA170006	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

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

## Laboratory Report

Client: Pollen Environmental LLC  
  
 Attn: Jerry Pollen  
 3536 International Avenue  
 Fairbanks, AK 99701

Report: 399812  
 Priority: Standard Written  
 Status: Final  
 PWS ID: AK2310675  
 Alaska Lab ID #: IN00035

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3793429	PEF36857 Well A	537	10/03/17 10:05	Client	10/05/17 08:30
3793430	PEF36858 Well A Dup.	537	10/03/17 10:06	Client	10/05/17 08:30
3793431	PEF36859 FTB	537	10/03/17 10:08	Client	10/05/17 08:30
3793432	PEF36860 LTB-09/13/17	537	10/03/17 10:05	EEA	10/05/17 08:30

### Report Summary

Note: This report was amended on 10/20/2017 to report additional compounds at the request of the client.

Note: This report was further amended on 11/01/17 to report field blank and lab blank results, at the request of the client.

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

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

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

*Traci Chlebowski* ASM

Authorized Signature

Title

11/01/2017

Date

Client Name: Pollen Environmental LLC

Report #: 399812

Sampling Point: PEF36857 Well A

PWS ID: AK2310675

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	< 2.0	ng/L	10/10/17 08:00	10/11/17 00:53	3793429
335-76-2	Perfluorodecanoic acid (PFDA)	537	---	2.0	< 2.0	ng/L	10/10/17 08:00	10/11/17 00:53	3793429
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	< 2.0	ng/L	10/10/17 08:00	10/11/17 00:53	3793429
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	< 2.0	ng/L	10/10/17 08:00	10/11/17 00:53	3793429
307-24-4	Perfluorohexanoic acid (PFHxA)	537	---	2.0	< 2.0	ng/L	10/10/17 08:00	10/11/17 00:53	3793429
307-55-1	Perfluorolauric acid (PFDoA)	537	---	2.0	< 2.0	ng/L	10/10/17 08:00	10/11/17 00:53	3793429
376-06-7	Perfluoromyristic acid (PFTA)	537	---	2.0	< 2.0	ng/L	10/10/17 08:00	10/11/17 00:53	3793429
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	< 2.0	ng/L	10/10/17 08:00	10/11/17 00:53	3793429
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	< 2.0	ng/L	10/10/17 08:00	10/11/17 00:53	3793429
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	< 2.0	ng/L	10/10/17 08:00	10/11/17 00:53	3793429
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	537	---	2.0	< 2.0	ng/L	10/10/17 08:00	10/11/17 00:53	3793429
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537	---	2.0	< 2.0	ng/L	10/10/17 08:00	10/11/17 00:53	3793429

Sampling Point: PEF36858 Well A Dup.

PWS ID: AK2310675

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	< 2.0	ng/L	10/10/17 08:00	10/11/17 01:27	3793430
335-76-2	Perfluorodecanoic acid (PFDA)	537	---	2.0	< 2.0	ng/L	10/10/17 08:00	10/11/17 01:27	3793430
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	< 2.0	ng/L	10/10/17 08:00	10/11/17 01:27	3793430
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	<b>2.0</b>	ng/L	10/10/17 08:00	10/11/17 01:27	3793430
307-24-4	Perfluorohexanoic acid (PFHxA)	537	---	2.0	< 2.0	ng/L	10/10/17 08:00	10/11/17 01:27	3793430
307-55-1	Perfluorolauric acid (PFDoA)	537	---	2.0	< 2.0	ng/L	10/10/17 08:00	10/11/17 01:27	3793430
376-06-7	Perfluoromyristic acid (PFTA)	537	---	2.0	< 2.0	ng/L	10/10/17 08:00	10/11/17 01:27	3793430
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	< 2.0	ng/L	10/10/17 08:00	10/11/17 01:27	3793430
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	< 2.0	ng/L	10/10/17 08:00	10/11/17 01:27	3793430
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	< 2.0	ng/L	10/10/17 08:00	10/11/17 01:27	3793430
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	537	---	2.0	< 2.0	ng/L	10/10/17 08:00	10/11/17 01:27	3793430
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537	---	2.0	< 2.0	ng/L	10/10/17 08:00	10/11/17 01:27	3793430



Sampling Point: PEF36859 FTB

PWS ID: AK2310675

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 20:58	3793431
335-76-2	Perfluorodecanoic acid (PFDA)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 20:58	3793431
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 20:58	3793431
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 20:58	3793431
307-24-4	Perfluorohexanoic acid (PFHxA)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 20:58	3793431
307-55-1	Perfluorolauric acid (PFDoA)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 20:58	3793431
376-06-7	Perfluoromyristic acid (PFTA)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 20:58	3793431
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 20:58	3793431
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 20:58	3793431
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 20:58	3793431
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 20:58	3793431
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 20:58	3793431

Sampling Point: PEF36860 LTB-09/13/17

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 21:15	3793432
335-76-2	Perfluorodecanoic acid (PFDA)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 21:15	3793432
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 21:15	3793432
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 21:15	3793432
307-24-4	Perfluorohexanoic acid (PFHxA)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 21:15	3793432
307-55-1	Perfluorolauric acid (PFDoA)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 21:15	3793432
376-06-7	Perfluoromyristic acid (PFTA)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 21:15	3793432
375-95-1	Perfluorononanoic acid (PFNA)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 21:15	3793432
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 21:15	3793432
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 21:15	3793432
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 21:15	3793432
2058-94-8	Perfluoroundecanoic acid (PFUnA)	537	---	2.0	< 2.0	ng/L	10/11/17 08:20	10/20/17 21:15	3793432

† 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.

**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.



# POLLEN ENVIRONMENTAL, LLC.

3536 International Street  
 Fairbanks, AK 99701  
 (907) 479-8368 Phone (907) 452-6853 Fax  
 jerry@pollenenv.com

## CHAIN OF CUSTODY/WORKORDER FORM

399812

328019 OC# CONP 2017

CLIENT INFORMATION				Contact Person: Paul Trissel		Requested Analysis						Page 1 of 1			
Company: City of North Pole						Perservative Added									
Address: 125 Snowman Lane				WWTP APDES #:											
City, State Zip: North Pole, AK 99705				PWS ID #: 310675 - report as special								<input type="checkbox"/> Normal Turnaround			
Phone: 907-388-1907				Send Results to ADEC:								<input type="checkbox"/> RUSH ___ day(s)			
Fax: 907-488-1825				√ Yes <input type="checkbox"/> No											
Email: northpoleutilities@alaska.net				Purchase Order/Charge Code:											
Project Name: QC PFC Monitoring				2017-565											
Sampled By: JEP															
Sample Identification	Sample Date	Sample Time	Matrix	Lab ID#	Sub Lab ID#	Number of Containers	PFC'S					Sample Comments			
Well A	10/3/2017	10:05 AM	W	PEF36857	3193-429	2	X (2)					CH-ASS			
Well A Dup.	10/3/2017	10:06 AM	W	PEF36858	430	2	X (2)								
Field Blank	10/3/2017	10:08 AM	W	PEF36859	431	2	X (1)								
Trip Blank	10/3/2017	10:05 AM	W	PEF36860	432	2	X (1)	9-1317							
<b>Possible Hazard Identification:</b>				<b>Sample Condition:</b>											
<input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Unknown				Pollen Env Temperature on arrival: _____ °C			COC Seal: <input type="checkbox"/> Intact <input type="checkbox"/> Broken <input type="checkbox"/> Absent			Sub Lab Temperature on arrival: 1.8 °C			COC Seal: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Broken <input type="checkbox"/> Absent		
<b>Special Instructions/QC Requirements &amp; Comments:</b>															
Relinquished by: <i>Jerry Pollen</i>	Company: <i>Pollen Env</i>	Date & Time: <i>10-4-17 @ 1100am</i>		Received by: <i>[Signature]</i>	Company: <i>EEA</i>	Date & Time: <i>10-5-17 0830</i>									
Relinquished by:	Company:	Date & Time:		Received by:	Company:	Date & Time:									
Relinquished by:	Company:	Date & Time:		Received by:	Company:	Date & Time:									

per-traci  
 SS 10-5-17  
 LIMBO  
 TC 10-5-17

## Eurofins Eaton Analytical Run Log

Run ID: **235318**    Method: **537**

<u>Type</u>	<u>Sample Id</u>	<u>Sample Site</u>	<u>Matrix</u>	<u>Instrument ID</u>	<u>Analysis Date</u>	<u>Calibration File</u>
CCL	3796119		OS	FL	10/10/2017 18:28	101017M537b-FL-PFC12.mdb
LRB	3796102		RW	FL	10/10/2017 19:01	101017M537b-FL-PFC12.mdb
FBL	3796103		RW	FL	10/10/2017 19:18	101017M537b-FL-PFC12.mdb
CCM	3796121		OS	FL	10/10/2017 22:39	101017M537b-FL-PFC12.mdb
FS	3793429	PEF36857 Well A	DW	FL	10/11/2017 00:53	101017M537b-FL-PFC12.mdb
FD	3796105	PEF36857 Well A	DW	FL	10/11/2017 01:10	101017M537b-FL-PFC12.mdb
FS	3793430	PEF36858 Well A Dup.	DW	FL	10/11/2017 01:27	101017M537b-FL-PFC12.mdb
CCH	3796122		OS	FL	10/11/2017 02:34	101017M537b-FL-PFC12.mdb

# QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCL	IS-PFOA-13C2	537	N/A	---		1807790.00	1807790	ng/L	100	50 - 150	---	---	1.0	09/27/2017 14:31	10/10/2017 18:28	3796119
CCL	IS-PFOS-13C4	537	N/A	---		307886.00	307886	ng/L	100	50 - 150	---	---	1.0	09/27/2017 14:31	10/10/2017 18:28	3796119
CCL	SS-PFDA-13C2	537	N/A	---		96.7104	100	ng/L	97	70 - 130	---	---	1.0	09/27/2017 14:31	10/10/2017 18:28	3796119
CCL	SS-PFHA-13C2	537	N/A	---		50.1889	50.0	ng/L	100	70 - 130	---	---	1.0	09/27/2017 14:31	10/10/2017 18:28	3796119
CCL	Perfluorobutanesulfonic acid (PFBS)	537	2.0	---		2.0892	2.0	ng/L	104	50 - 150	---	---	1.0	09/27/2017 14:31	10/10/2017 18:28	3796119
CCL	Perfluorodecanoic acid (PFDA)	537	2.0	---		1.9778	2.0	ng/L	99	50 - 150	---	---	1.0	09/27/2017 14:31	10/10/2017 18:28	3796119
CCL	Perfluorohexanoic acid (PFHxA)	537	2.0	---		2.0459	2.0	ng/L	102	50 - 150	---	---	1.0	09/27/2017 14:31	10/10/2017 18:28	3796119
CCL	Perfluorohexanesulfonic acid (PFHxS)	537	2.0	---		2.0655	2.0	ng/L	103	50 - 150	---	---	1.0	09/27/2017 14:31	10/10/2017 18:28	3796119
CCL	Perfluorohexanoic acid (PFHxA)	537	2.0	---		2.1321	2.0	ng/L	107	50 - 150	---	---	1.0	09/27/2017 14:31	10/10/2017 18:28	3796119
CCL	Perfluorolauric acid (PFDoA)	537	2.0	---		2.1143	2.0	ng/L	106	50 - 150	---	---	1.0	09/27/2017 14:31	10/10/2017 18:28	3796119
CCL	Perfluoromyristic acid (PFTA)	537	2.0	---		2.0331	2.0	ng/L	102	50 - 150	---	---	1.0	09/27/2017 14:31	10/10/2017 18:28	3796119
CCL	Perfluorononanoic acid (PFNA)	537	2.0	---		2.0307	2.0	ng/L	102	50 - 150	---	---	1.0	09/27/2017 14:31	10/10/2017 18:28	3796119
CCL	Perfluorooctane sulfonate (PFOS)	537	2.0	---		2.0940	2.0	ng/L	105	50 - 150	---	---	1.0	09/27/2017 14:31	10/10/2017 18:28	3796119
CCL	Perfluorooctanoic acid (PFOA)	537	2.0	---		2.0614	2.0	ng/L	103	50 - 150	---	---	1.0	09/27/2017 14:31	10/10/2017 18:28	3796119
CCL	Perfluorotridecanoic acid (PFTDA)	537	2.0	---		2.0341	2.0	ng/L	102	50 - 150	---	---	1.0	09/27/2017 14:31	10/10/2017 18:28	3796119
CCL	Perfluoroundecanoic acid (PFUnA)	537	2.0	---		2.0017	2.0	ng/L	100	50 - 150	---	---	1.0	09/27/2017 14:31	10/10/2017 18:28	3796119
LRB	IS-PFOA-13C2	537	N/A	---		1881550.00	1807790	ng/L	104	50 - 150	---	---	0.95	10/10/2017 08:00	10/10/2017 19:01	3796102
LRB	IS-PFOS-13C4	537	N/A	---		322036.00	307886	ng/L	105	50 - 150	---	---	0.95	10/10/2017 08:00	10/10/2017 19:01	3796102
LRB	SS-PFDA-13C2	537	N/A	---		88.5280	100	ng/L	93	70 - 130	---	---	0.95	10/10/2017 08:00	10/10/2017 19:01	3796102
LRB	SS-PFHA-13C2	537	N/A	---		46.0713	50.0	ng/L	97	70 - 130	---	---	0.95	10/10/2017 08:00	10/10/2017 19:01	3796102
LRB	Perfluorobutanesulfonic acid (PFBS)	537	2.0	---	<	2.0		ng/L	---	---	---	---	0.95	10/10/2017 08:00	10/10/2017 19:01	3796102
LRB	Perfluorodecanoic acid (PFDA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	0.95	10/10/2017 08:00	10/10/2017 19:01	3796102
LRB	Perfluorohexanoic acid (PFHxA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	0.95	10/10/2017 08:00	10/10/2017 19:01	3796102
LRB	Perfluorohexanesulfonic acid (PFHxS)	537	2.0	---	<	2.0		ng/L	---	---	---	---	0.95	10/10/2017 08:00	10/10/2017 19:01	3796102
LRB	Perfluorolauric acid (PFDoA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	0.95	10/10/2017 08:00	10/10/2017 19:01	3796102
LRB	Perfluoromyristic acid (PFTA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	0.95	10/10/2017 08:00	10/10/2017 19:01	3796102
LRB	Perfluorononanoic acid (PFNA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	0.95	10/10/2017 08:00	10/10/2017 19:01	3796102
LRB	Perfluorooctane sulfonate (PFOS)	537	2.0	---	<	2.0		ng/L	---	---	---	---	0.95	10/10/2017 08:00	10/10/2017 19:01	3796102
LRB	Perfluorooctanoic acid (PFOA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	0.95	10/10/2017 08:00	10/10/2017 19:01	3796102
LRB	Perfluorotridecanoic acid (PFTDA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	0.95	10/10/2017 08:00	10/10/2017 19:01	3796102
LRB	Perfluoroundecanoic acid (PFUnA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	0.95	10/10/2017 08:00	10/10/2017 19:01	3796102
FBL	IS-PFOA-13C2	537	N/A	---		1883360.00	1807790	ng/L	104	50 - 150	---	---	1.0	10/10/2017 08:00	10/10/2017 19:18	3796103
FBL	IS-PFOS-13C4	537	N/A	---		326350.00	307886	ng/L	106	50 - 150	---	---	1.0	10/10/2017 08:00	10/10/2017 19:18	3796103
FBL	SS-PFDA-13C2	537	N/A	---		95.4088	100	ng/L	95	70 - 130	---	---	1.0	10/10/2017 08:00	10/10/2017 19:18	3796103
FBL	SS-PFHA-13C2	537	N/A	---		49.0236	50.0	ng/L	98	70 - 130	---	---	1.0	10/10/2017 08:00	10/10/2017 19:18	3796103
FBL	Perfluorobutanesulfonic acid (PFBS)	537	2.0	---		2.0308	2.0	ng/L	102	50 - 150	---	---	1.0	10/10/2017 08:00	10/10/2017 19:18	3796103
FBL	Perfluorodecanoic acid (PFDA)	537	2.0	---		1.9114	2.0	ng/L	96	50 - 150	---	---	1.0	10/10/2017 08:00	10/10/2017 19:18	3796103
FBL	Perfluorohexanoic acid (PFHxA)	537	2.0	---		1.9583	2.0	ng/L	98	50 - 150	---	---	1.0	10/10/2017 08:00	10/10/2017 19:18	3796103
FBL	Perfluorohexanesulfonic acid (PFHxS)	537	2.0	---		2.0160	2.0	ng/L	101	50 - 150	---	---	1.0	10/10/2017 08:00	10/10/2017 19:18	3796103

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	Perfluorohexanoic acid (PFHxA)	537	2.0	---		1.9700	2.0	ng/L	99	50 - 150	---	---	1.0	10/10/2017 08:00	10/10/2017 19:18	3796103
FBL	Perfluorolauric acid (PFDoA)	537	2.0	---		1.8624	2.0	ng/L	93	50 - 150	---	---	1.0	10/10/2017 08:00	10/10/2017 19:18	3796103
FBL	Perfluoromyristic acid (PFTA)	537	2.0	---		1.7829	2.0	ng/L	89	50 - 150	---	---	1.0	10/10/2017 08:00	10/10/2017 19:18	3796103
FBL	Perfluorononanoic acid (PFNA)	537	2.0	---		2.0446	2.0	ng/L	102	50 - 150	---	---	1.0	10/10/2017 08:00	10/10/2017 19:18	3796103
FBL	Perfluorooctane sulfonate (PFOS)	537	2.0	---		2.0019	2.0	ng/L	100	50 - 150	---	---	1.0	10/10/2017 08:00	10/10/2017 19:18	3796103
FBL	Perfluorooctanoic acid (PFOA)	537	2.0	---		2.0259	2.0	ng/L	101	50 - 150	---	---	1.0	10/10/2017 08:00	10/10/2017 19:18	3796103
FBL	Perfluorotridecanoic acid (PFTrDA)	537	2.0	---		1.7753	2.0	ng/L	89	50 - 150	---	---	1.0	10/10/2017 08:00	10/10/2017 19:18	3796103
FBL	Perfluoroundecanoic acid (PFUnA)	537	2.0	---		1.8305	2.0	ng/L	92	50 - 150	---	---	1.0	10/10/2017 08:00	10/10/2017 19:18	3796103
CCM	IS-PFOA-13C2	537	N/A	---		1863950.00	1863950	ng/L	100	50 - 150	---	---	1.0	09/27/2017 14:31	10/10/2017 22:39	3796121
CCM	IS-PFOS-13C4	537	N/A	---		321883.00	321883	ng/L	100	50 - 150	---	---	1.0	09/27/2017 14:31	10/10/2017 22:39	3796121
CCM	SS-PFDA-13C2	537	N/A	---		98.9344	100	ng/L	99	70 - 130	---	---	1.0	09/27/2017 14:31	10/10/2017 22:39	3796121
CCM	SS-PFHxA-13C2	537	N/A	---		50.7913	50.0	ng/L	102	70 - 130	---	---	1.0	09/27/2017 14:31	10/10/2017 22:39	3796121
CCM	Perfluorobutanesulfonic acid (PFBS)	537	2.0	---		96.2943	100	ng/L	96	70 - 130	---	---	1.0	09/27/2017 14:31	10/10/2017 22:39	3796121
CCM	Perfluorodecanoic acid (PFDA)	537	2.0	---		93.3914	100	ng/L	93	70 - 130	---	---	1.0	09/27/2017 14:31	10/10/2017 22:39	3796121
CCM	Perfluoroheptanoic acid (PFHpA)	537	2.0	---		97.5328	100	ng/L	98	70 - 130	---	---	1.0	09/27/2017 14:31	10/10/2017 22:39	3796121
CCM	Perfluorohexanesulfonic acid (PFHxS)	537	2.0	---		96.7118	100	ng/L	97	70 - 130	---	---	1.0	09/27/2017 14:31	10/10/2017 22:39	3796121
CCM	Perfluorohexanoic acid (PFHxA)	537	2.0	---		97.5800	100	ng/L	98	70 - 130	---	---	1.0	09/27/2017 14:31	10/10/2017 22:39	3796121
CCM	Perfluorolauric acid (PFDoA)	537	2.0	---		95.1450	100	ng/L	95	70 - 130	---	---	1.0	09/27/2017 14:31	10/10/2017 22:39	3796121
CCM	Perfluoromyristic acid (PFTA)	537	2.0	---		95.1706	100	ng/L	95	70 - 130	---	---	1.0	09/27/2017 14:31	10/10/2017 22:39	3796121
CCM	Perfluorononanoic acid (PFNA)	537	2.0	---		96.8495	100	ng/L	97	70 - 130	---	---	1.0	09/27/2017 14:31	10/10/2017 22:39	3796121
CCM	Perfluorooctane sulfonate (PFOS)	537	2.0	---		95.4877	100	ng/L	95	70 - 130	---	---	1.0	09/27/2017 14:31	10/10/2017 22:39	3796121
CCM	Perfluorooctanoic acid (PFOA)	537	2.0	---		96.1620	100	ng/L	96	70 - 130	---	---	1.0	09/27/2017 14:31	10/10/2017 22:39	3796121
CCM	Perfluorotridecanoic acid (PFTrDA)	537	2.0	---		95.3911	100	ng/L	95	70 - 130	---	---	1.0	09/27/2017 14:31	10/10/2017 22:39	3796121
CCM	Perfluoroundecanoic acid (PFUnA)	537	2.0	---		94.0570	100	ng/L	94	70 - 130	---	---	1.0	09/27/2017 14:31	10/10/2017 22:39	3796121
FS	IS-PFOA-13C2	537	N/A	PEF36857 Well A		1839110.00	1863950	ng/L	99	50 - 150	---	---	0.89	10/10/2017 08:00	10/11/2017 00:53	3793429
FS	IS-PFOS-13C4	537	N/A	PEF36857 Well A		329499.00	321883	ng/L	102	50 - 150	---	---	0.89	10/10/2017 08:00	10/11/2017 00:53	3793429
FS	SS-PFDA-13C2	537	N/A	PEF36857 Well A		79.4462	100	ng/L	89	70 - 130	---	---	0.89	10/10/2017 08:00	10/11/2017 00:53	3793429
FS	SS-PFHxA-13C2	537	N/A	PEF36857 Well A		44.4081	50.0	ng/L	100	70 - 130	---	---	0.89	10/10/2017 08:00	10/11/2017 00:53	3793429
FS	Perfluorobutanesulfonic acid (PFBS)	537	2.0	PEF36857 Well A	<	2.0		ng/L	---	---	---	---	0.89	10/10/2017 08:00	10/11/2017 00:53	3793429
FS	Perfluorodecanoic acid (PFDA)	537	2.0	PEF36857 Well A	<	2.0		ng/L	---	---	---	---	0.89	10/10/2017 08:00	10/11/2017 00:53	3793429
FS	Perfluoroheptanoic acid (PFHpA)	537	2.0	PEF36857 Well A	<	2.0		ng/L	---	---	---	---	0.89	10/10/2017 08:00	10/11/2017 00:53	3793429
FS	Perfluorohexanesulfonic acid (PFHxS)	537	2.0	PEF36857 Well A	<	2.0		ng/L	---	---	---	---	0.89	10/10/2017 08:00	10/11/2017 00:53	3793429
FS	Perfluorohexanoic acid (PFHxA)	537	2.0	PEF36857 Well A	<	2.0		ng/L	---	---	---	---	0.89	10/10/2017 08:00	10/11/2017 00:53	3793429
FS	Perfluorolauric acid (PFDoA)	537	2.0	PEF36857 Well A	<	2.0		ng/L	---	---	---	---	0.89	10/10/2017 08:00	10/11/2017 00:53	3793429
FS	Perfluoromyristic acid (PFTA)	537	2.0	PEF36857 Well A	<	2.0		ng/L	---	---	---	---	0.89	10/10/2017 08:00	10/11/2017 00:53	3793429
FS	Perfluorononanoic acid (PFNA)	537	2.0	PEF36857 Well A	<	2.0		ng/L	---	---	---	---	0.89	10/10/2017 08:00	10/11/2017 00:53	3793429
FS	Perfluorooctane sulfonate (PFOS)	537	2.0	PEF36857 Well A	<	2.0		ng/L	---	---	---	---	0.89	10/10/2017 08:00	10/11/2017 00:53	3793429
FS	Perfluorooctanoic acid (PFOA)	537	2.0	PEF36857 Well A	<	2.0		ng/L	---	---	---	---	0.89	10/10/2017 08:00	10/11/2017 00:53	3793429
FS	Perfluorotridecanoic acid (PFTrDA)	537	2.0	PEF36857 Well A	<	2.0		ng/L	---	---	---	---	0.89	10/10/2017 08:00	10/11/2017 00:53	3793429
FS	Perfluoroundecanoic acid (PFUnA)	537	2.0	PEF36857 Well A	<	2.0		ng/L	---	---	---	---	0.89	10/10/2017 08:00	10/11/2017 00:53	3793429
FD	IS-PFOA-13C2	537	N/A	PEF36857 Well A		1818770.00	1863950	ng/L	98	50 - 150	---	---	0.93	10/10/2017 08:00	10/11/2017 01:10	3796105

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 #
FD	IS-PFOS-13C4	537	N/A	PEF36857 Well A		314181.00	321883	ng/L	98	50 - 150	---	---	0.93	10/10/2017 08:00	10/11/2017 01:10	3796105
FD	SS-PFDA-13C2	537	N/A	PEF36857 Well A		82.5730	100	ng/L	89	70 - 130	---	---	0.93	10/10/2017 08:00	10/11/2017 01:10	3796105
FD	SS-PFHXA-13C2	537	N/A	PEF36857 Well A		45.7528	50.0	ng/L	98	70 - 130	---	---	0.93	10/10/2017 08:00	10/11/2017 01:10	3796105
FD	Perfluorobutanesulfonic acid (PFBS)	537	2.0	PEF36857 Well A	<	2.0		ng/L	---	---	---	---	0.93	10/10/2017 08:00	10/11/2017 01:10	3796105
FD	Perfluorodecanoic acid (PFDA)	537	2.0	PEF36857 Well A	<	2.0		ng/L	---	---	---	---	0.93	10/10/2017 08:00	10/11/2017 01:10	3796105
FD	Perfluoroheptanoic acid (PFHpA)	537	2.0	PEF36857 Well A	<	2.0		ng/L	---	---	---	---	0.93	10/10/2017 08:00	10/11/2017 01:10	3796105
FD	Perfluorohexanesulfonic acid (PFHxS)	537	2.0	PEF36857 Well A	<	2.08		ng/L	---	---	---	---	0.93	10/10/2017 08:00	10/11/2017 01:10	3796105
FD	Perfluorohexanoic acid (PFHxA)	537	2.0	PEF36857 Well A	<	2.0		ng/L	---	---	---	---	0.93	10/10/2017 08:00	10/11/2017 01:10	3796105
FD	Perfluorolauric acid (PFDoA)	537	2.0	PEF36857 Well A	<	2.0		ng/L	---	---	---	---	0.93	10/10/2017 08:00	10/11/2017 01:10	3796105
FD	Perfluoromyristic acid (PFMA)	537	2.0	PEF36857 Well A	<	2.0		ng/L	---	---	---	---	0.93	10/10/2017 08:00	10/11/2017 01:10	3796105
FD	Perfluorononanoic acid (PFNA)	537	2.0	PEF36857 Well A	<	2.0		ng/L	---	---	---	---	0.93	10/10/2017 08:00	10/11/2017 01:10	3796105
FD	Perfluorooctane sulfonate (PFOS)	537	2.0	PEF36857 Well A	<	2.0		ng/L	---	---	---	---	0.93	10/10/2017 08:00	10/11/2017 01:10	3796105
FD	Perfluorooctanoic acid (PFOA)	537	2.0	PEF36857 Well A	<	2.0		ng/L	---	---	---	---	0.93	10/10/2017 08:00	10/11/2017 01:10	3796105
FD	Perfluorotridecanoic acid (PFTrDA)	537	2.0	PEF36857 Well A	<	2.0		ng/L	---	---	---	---	0.93	10/10/2017 08:00	10/11/2017 01:10	3796105
FD	Perfluoroundecanoic acid (PFUnA)	537	2.0	PEF36857 Well A	<	2.0		ng/L	---	---	---	---	0.93	10/10/2017 08:00	10/11/2017 01:10	3796105
FS	IS-PFOA-13C2	537	N/A	PEF36858 Well A Dup.		1721760.00	1863950	ng/L	92	50 - 150	---	---	0.9	10/10/2017 08:00	10/11/2017 01:27	3793430
FS	IS-PFOS-13C4	537	N/A	PEF36858 Well A Dup.		298770.00	321883	ng/L	93	50 - 150	---	---	0.9	10/10/2017 08:00	10/11/2017 01:27	3793430
FS	SS-PFDA-13C2	537	N/A	PEF36858 Well A Dup.		82.0657	100	ng/L	91	70 - 130	---	---	0.9	10/10/2017 08:00	10/11/2017 01:27	3793430
FS	SS-PFHXA-13C2	537	N/A	PEF36858 Well A Dup.		45.6226	50.0	ng/L	101	70 - 130	---	---	0.9	10/10/2017 08:00	10/11/2017 01:27	3793430
FS	Perfluorobutanesulfonic acid (PFBS)	537	2.0	PEF36858 Well A Dup.	<	2.0		ng/L	---	---	---	---	0.9	10/10/2017 08:00	10/11/2017 01:27	3793430
FS	Perfluorodecanoic acid (PFDA)	537	2.0	PEF36858 Well A Dup.	<	2.0		ng/L	---	---	---	---	0.9	10/10/2017 08:00	10/11/2017 01:27	3793430
FS	Perfluoroheptanoic acid (PFHpA)	537	2.0	PEF36858 Well A Dup.	<	2.0		ng/L	---	---	---	---	0.9	10/10/2017 08:00	10/11/2017 01:27	3793430
FS	Perfluorohexanesulfonic acid (PFHxS)	537	2.0	PEF36858 Well A Dup.	<	2.0		ng/L	---	---	---	---	0.9	10/10/2017 08:00	10/11/2017 01:27	3793430
FS	Perfluorohexanoic acid (PFHxA)	537	2.0	PEF36858 Well A Dup.	<	2.0		ng/L	---	---	---	---	0.9	10/10/2017 08:00	10/11/2017 01:27	3793430
FS	Perfluorolauric acid (PFDoA)	537	2.0	PEF36858 Well A Dup.	<	2.0		ng/L	---	---	---	---	0.9	10/10/2017 08:00	10/11/2017 01:27	3793430
FS	Perfluoromyristic acid (PFMA)	537	2.0	PEF36858 Well A Dup.	<	2.0		ng/L	---	---	---	---	0.9	10/10/2017 08:00	10/11/2017 01:27	3793430
FS	Perfluorononanoic acid (PFNA)	537	2.0	PEF36858 Well A Dup.	<	2.0		ng/L	---	---	---	---	0.9	10/10/2017 08:00	10/11/2017 01:27	3793430
FS	Perfluorooctane sulfonate (PFOS)	537	2.0	PEF36858 Well A Dup.	<	2.0		ng/L	---	---	---	---	0.9	10/10/2017 08:00	10/11/2017 01:27	3793430
FS	Perfluorooctanoic acid (PFOA)	537	2.0	PEF36858 Well A Dup.	<	2.0		ng/L	---	---	---	---	0.9	10/10/2017 08:00	10/11/2017 01:27	3793430
FS	Perfluorotridecanoic acid (PFTrDA)	537	2.0	PEF36858 Well A Dup.	<	2.0		ng/L	---	---	---	---	0.9	10/10/2017 08:00	10/11/2017 01:27	3793430
FS	Perfluoroundecanoic acid (PFUnA)	537	2.0	PEF36858 Well A Dup.	<	2.0		ng/L	---	---	---	---	0.9	10/10/2017 08:00	10/11/2017 01:27	3793430
CCH	IS-PFOA-13C2	537	N/A	---		1744740.00	1744740	ng/L	100	50 - 150	---	---	1.0	09/27/2017 14:31	10/11/2017 02:34	3796122
CCH	IS-PFOS-13C4	537	N/A	---		306487.00	306487	ng/L	100	50 - 150	---	---	1.0	09/27/2017 14:31	10/11/2017 02:34	3796122
CCH	SS-PFDA-13C2	537	N/A	---		97.8339	100	ng/L	98	70 - 130	---	---	1.0	09/27/2017 14:31	10/11/2017 02:34	3796122
CCH	SS-PFHXA-13C2	537	N/A	---		50.3025	50.0	ng/L	101	70 - 130	---	---	1.0	09/27/2017 14:31	10/11/2017 02:34	3796122
CCH	Perfluorobutanesulfonic acid (PFBS)	537	2.0	---		196.8460	200	ng/L	98	70 - 130	---	---	1.0	09/27/2017 14:31	10/11/2017 02:34	3796122
CCH	Perfluorodecanoic acid (PFDA)	537	2.0	---		196.3350	200	ng/L	98	70 - 130	---	---	1.0	09/27/2017 14:31	10/11/2017 02:34	3796122
CCH	Perfluoroheptanoic acid (PFHpA)	537	2.0	---		203.4180	200	ng/L	102	70 - 130	---	---	1.0	09/27/2017 14:31	10/11/2017 02:34	3796122
CCH	Perfluorohexanesulfonic acid (PFHxS)	537	2.0	---		201.6560	200	ng/L	101	70 - 130	---	---	1.0	09/27/2017 14:31	10/11/2017 02:34	3796122
CCH	Perfluorohexanoic acid (PFHxA)	537	2.0	---		203.1960	200	ng/L	102	70 - 130	---	---	1.0	09/27/2017 14:31	10/11/2017 02:34	3796122
CCH	Perfluorolauric acid (PFDoA)	537	2.0	---		198.3530	200	ng/L	99	70 - 130	---	---	1.0	09/27/2017 14:31	10/11/2017 02:34	3796122



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	Perfluoromyristic acid (PFTA)	537	2.0	---		203.8160	200	ng/L	102	70 - 130	---	---	1.0	09/27/2017 14:31	10/11/2017 02:34	3796122
CCH	Perfluoromonanoic acid (PFNA)	537	2.0	---		201.6340	200	ng/L	101	70 - 130	---	---	1.0	09/27/2017 14:31	10/11/2017 02:34	3796122
CCH	Perfluorooctane sulfonate (PFOS)	537	2.0	---		200.5660	200	ng/L	100	70 - 130	---	---	1.0	09/27/2017 14:31	10/11/2017 02:34	3796122
CCH	Perfluorooctanoic acid (PFOA)	537	2.0	---		201.7170	200	ng/L	101	70 - 130	---	---	1.0	09/27/2017 14:31	10/11/2017 02:34	3796122
CCH	Perfluorotridecanoic acid (PFTrDA)	537	2.0	---		200.9130	200	ng/L	100	70 - 130	---	---	1.0	09/27/2017 14:31	10/11/2017 02:34	3796122
CCH	Perfluoroundecanoic acid (PFUnA)	537	2.0	---		198.8460	200	ng/L	99	70 - 130	---	---	1.0	09/27/2017 14:31	10/11/2017 02:34	3796122

**Eurofins Eaton Analytical  
Run Log**

Run ID: **235533** Method: **537**

<u>Type</u>	<u>Sample Id</u>	<u>Sample Site</u>	<u>Matrix</u>	<u>Instrument ID</u>	<u>Analysis Date</u>	<u>Calibration File</u>
CCL	3796835		OS	FL	10/11/2017 19:03	101117M537b-FL-PFC12.mdb
UQCSM	3796834		OS	FL	10/11/2017 19:20	101117M537b-FL-PFC12.mdb
LRB	3796817		RW	FL	10/11/2017 19:37	101117M537b-FL-PFC12.mdb
FBM	3796818		RW	FL	10/11/2017 20:11	101117M537b-FL-PFC12.mdb



# QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCL	IS-PFOA-13C2	537	N/A	---		1765390.00	1765390	ng/L	100	50 - 150	---	---	1.0	10/11/2017 12:40	10/11/2017 19:03	3796835
CCL	IS-PFOS-13C4	537	N/A	---		313002.00	313002	ng/L	100	50 - 150	---	---	1.0	10/11/2017 12:40	10/11/2017 19:03	3796835
CCL	SS-PFDA-13C2	537	N/A	---		95.5705	100	ng/L	96	70 - 130	---	---	1.0	10/11/2017 12:40	10/11/2017 19:03	3796835
CCL	SS-PFHXA-13C2	537	N/A	---		48.9792	50.0	ng/L	98	70 - 130	---	---	1.0	10/11/2017 12:40	10/11/2017 19:03	3796835
CCL	Perfluorobutanesulfonic acid (PFBS)	537	2.0	---		2.0286	2.0	ng/L	101	50 - 150	---	---	1.0	10/11/2017 12:40	10/11/2017 19:03	3796835
CCL	Perfluorodecanoic acid (PFDA)	537	2.0	---		2.0933	2.0	ng/L	105	50 - 150	---	---	1.0	10/11/2017 12:40	10/11/2017 19:03	3796835
CCL	Perfluorheptanoic acid (PFHpA)	537	2.0	---		2.0415	2.0	ng/L	102	50 - 150	---	---	1.0	10/11/2017 12:40	10/11/2017 19:03	3796835
CCL	Perfluorhexanesulfonic acid (PFHxS)	537	2.0	---		1.9971	2.0	ng/L	100	50 - 150	---	---	1.0	10/11/2017 12:40	10/11/2017 19:03	3796835
CCL	Perfluorhexanoic acid (PFHxA)	537	2.0	---		2.1359	2.0	ng/L	107	50 - 150	---	---	1.0	10/11/2017 12:40	10/11/2017 19:03	3796835
CCL	Perfluorolauric acid (PFDoA)	537	2.0	---		2.1000	2.0	ng/L	105	50 - 150	---	---	1.0	10/11/2017 12:40	10/11/2017 19:03	3796835
CCL	Perfluoromyristic acid (PFMA)	537	2.0	---		2.0378	2.0	ng/L	102	50 - 150	---	---	1.0	10/11/2017 12:40	10/11/2017 19:03	3796835
CCL	Perfluorononanoic acid (PFNA)	537	2.0	---		2.0415	2.0	ng/L	102	50 - 150	---	---	1.0	10/11/2017 12:40	10/11/2017 19:03	3796835
CCL	Perfluorooctane sulfonate (PFOS)	537	2.0	---		2.0850	2.0	ng/L	104	50 - 150	---	---	1.0	10/11/2017 12:40	10/11/2017 19:03	3796835
CCL	Perfluorooctanoic acid (PFOA)	537	2.0	---		2.0989	2.0	ng/L	105	50 - 150	---	---	1.0	10/11/2017 12:40	10/11/2017 19:03	3796835
CCL	Perfluorotridecanoic acid (PFTTDA)	537	2.0	---		2.0233	2.0	ng/L	101	50 - 150	---	---	1.0	10/11/2017 12:40	10/11/2017 19:03	3796835
CCL	Perfluoroundecanoic acid (PFUnA)	537	2.0	---		2.0212	2.0	ng/L	101	50 - 150	---	---	1.0	10/11/2017 12:40	10/11/2017 19:03	3796835
UQCSM	IS-PFOA-13C2	537	N/A	---		1711970.00	1765390	ng/L	97	50 - 150	---	---	1.0	10/11/2017 12:40	10/11/2017 19:20	3796834
UQCSM	IS-PFOS-13C4	537	N/A	---		305262.00	313002	ng/L	98	50 - 150	---	---	1.0	10/11/2017 12:40	10/11/2017 19:20	3796834
UQCSM	SS-PFDA-13C2	537	N/A	---		99.7112	100	ng/L	100	70 - 130	---	---	1.0	10/11/2017 12:40	10/11/2017 19:20	3796834
UQCSM	SS-PFHXA-13C2	537	N/A	---		50.5456	50.0	ng/L	101	70 - 130	---	---	1.0	10/11/2017 12:40	10/11/2017 19:20	3796834
UQCSM	Perfluorobutanesulfonic acid (PFBS)	537	2.0	---		95.1907	100	ng/L	95	70 - 130	---	---	1.0	10/11/2017 12:40	10/11/2017 19:20	3796834
UQCSM	Perfluorodecanoic acid (PFDA)	537	2.0	---		84.4468	100	ng/L	84	70 - 130	---	---	1.0	10/11/2017 12:40	10/11/2017 19:20	3796834
UQCSM	Perfluorheptanoic acid (PFHpA)	537	2.0	---		91.4448	100	ng/L	91	70 - 130	---	---	1.0	10/11/2017 12:40	10/11/2017 19:20	3796834
UQCSM	Perfluorhexanesulfonic acid (PFHxS)	537	2.0	---		92.8937	100	ng/L	93	70 - 130	---	---	1.0	10/11/2017 12:40	10/11/2017 19:20	3796834
UQCSM	Perfluorhexanoic acid (PFHxA)	537	2.0	---		94.3009	100	ng/L	94	70 - 130	---	---	1.0	10/11/2017 12:40	10/11/2017 19:20	3796834
UQCSM	Perfluorolauric acid (PFDoA)	537	2.0	---		94.9277	100	ng/L	95	70 - 130	---	---	1.0	10/11/2017 12:40	10/11/2017 19:20	3796834
UQCSM	Perfluoromyristic acid (PFMA)	537	2.0	---		94.8577	100	ng/L	95	70 - 130	---	---	1.0	10/11/2017 12:40	10/11/2017 19:20	3796834
UQCSM	Perfluorononanoic acid (PFNA)	537	2.0	---		96.8010	100	ng/L	97	70 - 130	---	---	1.0	10/11/2017 12:40	10/11/2017 19:20	3796834
UQCSM	Perfluorooctane sulfonate (PFOS)	537	2.0	---		92.4556	100	ng/L	92	70 - 130	---	---	1.0	10/11/2017 12:40	10/11/2017 19:20	3796834
UQCSM	Perfluorooctanoic acid (PFOA)	537	2.0	---		93.8446	100	ng/L	94	70 - 130	---	---	1.0	10/11/2017 12:40	10/11/2017 19:20	3796834
UQCSM	Perfluorotridecanoic acid (PFTTDA)	537	2.0	---		95.7611	100	ng/L	96	70 - 130	---	---	1.0	10/11/2017 12:40	10/11/2017 19:20	3796834
UQCSM	Perfluoroundecanoic acid (PFUnA)	537	2.0	---		92.8426	100	ng/L	93	70 - 130	---	---	1.0	10/11/2017 12:40	10/11/2017 19:20	3796834
LRB	IS-PFOA-13C2	537	N/A	---		1747310.00	1765390	ng/L	99	50 - 150	---	---	1.0	10/11/2017 08:20	10/11/2017 19:37	3796817
LRB	IS-PFOS-13C4	537	N/A	---		316177.00	313002	ng/L	101	50 - 150	---	---	1.0	10/11/2017 08:20	10/11/2017 19:37	3796817
LRB	SS-PFDA-13C2	537	N/A	---		94.0317	100	ng/L	94	70 - 130	---	---	1.0	10/11/2017 08:20	10/11/2017 19:37	3796817
LRB	SS-PFHXA-13C2	537	N/A	---		47.8147	50.0	ng/L	96	70 - 130	---	---	1.0	10/11/2017 08:20	10/11/2017 19:37	3796817
LRB	Perfluorobutanesulfonic acid (PFBS)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/11/2017 08:20	10/11/2017 19:37	3796817
LRB	Perfluorodecanoic acid (PFDA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/11/2017 08:20	10/11/2017 19:37	3796817
LRB	Perfluorheptanoic acid (PFHpA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/11/2017 08:20	10/11/2017 19:37	3796817
LRB	Perfluorhexanesulfonic acid (PFHxS)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/11/2017 08:20	10/11/2017 19:37	3796817

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	DII Factor	Extracted	Analyzed	EEA ID #
LRB	Perfluorohexanoic acid (PFHxA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/11/2017 08:20	10/11/2017 19:37	3796817
LRB	Perfluorolauric acid (PFDoA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/11/2017 08:20	10/11/2017 19:37	3796817
LRB	Perfluoromyristic acid (PFTA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/11/2017 08:20	10/11/2017 19:37	3796817
LRB	Perfluorononanoic acid (PFNA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/11/2017 08:20	10/11/2017 19:37	3796817
LRB	Perfluorooctane sulfonate (PFOS)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/11/2017 08:20	10/11/2017 19:37	3796817
LRB	Perfluorooctanoic acid (PFOA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/11/2017 08:20	10/11/2017 19:37	3796817
LRB	Perfluorotridecanoic acid (PFTDA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/11/2017 08:20	10/11/2017 19:37	3796817
LRB	Perfluoroundecanoic acid (PFUnA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/11/2017 08:20	10/11/2017 19:37	3796817
FBM	IS-PFOA-13C2	537	N/A	---		1797750.00	1765390	ng/L	102	50 - 150	---	---	1.0	10/11/2017 08:20	10/11/2017 20:11	3796818
FBM	IS-PFOS-13C4	537	N/A	---		327320.00	313002	ng/L	105	50 - 150	---	---	1.0	10/11/2017 08:20	10/11/2017 20:11	3796818
FBM	SS-PFDA-13C2	537	N/A	---		95.2725	100	ng/L	95	70 - 130	---	---	1.0	10/11/2017 08:20	10/11/2017 20:11	3796818
FBM	SS-PFHxA-13C2	537	N/A	---		48.6209	50.0	ng/L	97	70 - 130	---	---	1.0	10/11/2017 08:20	10/11/2017 20:11	3796818
FBM	Perfluorobutanesulfonic acid (PFBS)	537	2.0	---		96.9252	100	ng/L	97	70 - 130	---	---	1.0	10/11/2017 08:20	10/11/2017 20:11	3796818
FBM	Perfluorodecanoic acid (PFDA)	537	2.0	---		94.6381	100	ng/L	95	70 - 130	---	---	1.0	10/11/2017 08:20	10/11/2017 20:11	3796818
FBM	Perfluoroheptanoic acid (PFHpA)	537	2.0	---		96.0855	100	ng/L	96	70 - 130	---	---	1.0	10/11/2017 08:20	10/11/2017 20:11	3796818
FBM	Perfluorohexanesulfonic acid (PFHxS)	537	2.0	---		97.2930	100	ng/L	97	70 - 130	---	---	1.0	10/11/2017 08:20	10/11/2017 20:11	3796818
FBM	Perfluorohexanoic acid (PFHxA)	537	2.0	---		95.9127	100	ng/L	96	70 - 130	---	---	1.0	10/11/2017 08:20	10/11/2017 20:11	3796818
FBM	Perfluorolauric acid (PFDoA)	537	2.0	---		94.4111	100	ng/L	94	70 - 130	---	---	1.0	10/11/2017 08:20	10/11/2017 20:11	3796818
FBM	Perfluoromyristic acid (PFTA)	537	2.0	---		92.7821	100	ng/L	93	70 - 130	---	---	1.0	10/11/2017 08:20	10/11/2017 20:11	3796818
FBM	Perfluorononanoic acid (PFNA)	537	2.0	---		103.5090	100	ng/L	104	70 - 130	---	---	1.0	10/11/2017 08:20	10/11/2017 20:11	3796818
FBM	Perfluorooctane sulfonate (PFOS)	537	2.0	---		98.5486	100	ng/L	99	70 - 130	---	---	1.0	10/11/2017 08:20	10/11/2017 20:11	3796818
FBM	Perfluorooctanoic acid (PFOA)	537	2.0	---		97.4062	100	ng/L	97	70 - 130	---	---	1.0	10/11/2017 08:20	10/11/2017 20:11	3796818
FBM	Perfluorotridecanoic acid (PFTDA)	537	2.0	---		92.3356	100	ng/L	92	70 - 130	---	---	1.0	10/11/2017 08:20	10/11/2017 20:11	3796818
FBM	Perfluoroundecanoic acid (PFUnA)	537	2.0	---		95.3524	100	ng/L	95	70 - 130	---	---	1.0	10/11/2017 08:20	10/11/2017 20:11	3796818

**Eurofins Eaton Analytical  
Run Log**

Run ID: 235682 Method: 537

<u>Type</u>	<u>Sample Id</u>	<u>Sample Site</u>	<u>Matrix</u>	<u>Instrument ID</u>	<u>Analysis Date</u>	<u>Calibration File</u>
CCL	3804256		OS	FL	10/20/2017 19:34	102017M537b-FL-PFC-Ext.mdb
LRB	3804246		RW	FL	10/20/2017 20:08	102017M537b-FL-PFC-Ext.mdb
FBM	3804247		RW	FL	10/20/2017 20:41	102017M537b-FL-PFC-Ext.mdb
FTB	3793431	PEF36859 FTB	RW	FL	10/20/2017 20:58	102017M537b-FL-PFC-Ext.mdb
LTB	3793432	PEF36860 LTB-09/13/17	RW	FL	10/20/2017 21:15	102017M537b-FL-PFC-Ext.mdb
CCM	3804257		OS	FL	10/21/2017 00:53	102017M537b-FL-PFC-Ext.mdb

# QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCL	IS-NMeFOSAA-43	537	N/A	---		783896.00	783896	ng/L	100	50 - 150	---	---	1.0	10/20/2017 14:13	10/20/2017 19:34	3804256
CCL	IS-PFOA-13C2	537	N/A	---		1713710.00	1713710	ng/L	100	50 - 150	---	---	1.0	10/20/2017 14:13	10/20/2017 19:34	3804256
CCL	IS-PFOS-13C4	537	N/A	---		304248.00	304248	ng/L	100	50 - 150	---	---	1.0	10/20/2017 14:13	10/20/2017 19:34	3804256
CCL	IS-GenX-13C3	537	N/A	---		7251.99	7251.99	ng/L	100	50 - 150	---	---	1.0	10/20/2017 14:13	10/20/2017 19:34	3804256
CCL	SS-NEFOSAA-45	537	N/A	---		199.0720	200	ng/L	100	70 - 130	---	---	1.0	10/20/2017 14:13	10/20/2017 19:34	3804256
CCL	SS-PFDA-13C2	537	N/A	---		99.2622	100	ng/L	99	70 - 130	---	---	1.0	10/20/2017 14:13	10/20/2017 19:34	3804256
CCL	SS-PFHxA-13C2	537	N/A	---		50.3141	50.0	ng/L	101	70 - 130	---	---	1.0	10/20/2017 14:13	10/20/2017 19:34	3804256
CCL	Perfluorobutanesulfonic acid (PFBS)	537	2.0	---		1.9321	2.0	ng/L	97	50 - 150	---	---	1.0	10/20/2017 14:13	10/20/2017 19:34	3804256
CCL	Perfluorodecanoic acid (PFDA)	537	2.0	---		1.9155	2.0	ng/L	96	50 - 150	---	---	1.0	10/20/2017 14:13	10/20/2017 19:34	3804256
CCL	Perfluorheptanoic acid (PFHpA)	537	2.0	---		1.9163	2.0	ng/L	96	50 - 150	---	---	1.0	10/20/2017 14:13	10/20/2017 19:34	3804256
CCL	Perfluorohexanesulfonic acid (PFHxS)	537	2.0	---		1.8745	2.0	ng/L	94	50 - 150	---	---	1.0	10/20/2017 14:13	10/20/2017 19:34	3804256
CCL	Perfluorohexanoic acid (PFHxA)	537	2.0	---		1.9880	2.0	ng/L	99	50 - 150	---	---	1.0	10/20/2017 14:13	10/20/2017 19:34	3804256
CCL	Perfluorolauric acid (PFDoA)	537	2.0	---		1.9489	2.0	ng/L	97	50 - 150	---	---	1.0	10/20/2017 14:13	10/20/2017 19:34	3804256
CCL	Perfluoromyristic acid (PFTA)	537	2.0	---		2.0377	2.0	ng/L	102	50 - 150	---	---	1.0	10/20/2017 14:13	10/20/2017 19:34	3804256
CCL	Perfluorononanoic acid (PFNA)	537	2.0	---		1.9359	2.0	ng/L	97	50 - 150	---	---	1.0	10/20/2017 14:13	10/20/2017 19:34	3804256
CCL	Perfluorooctane sulfonate (PFOS)	537	2.0	---		1.9362	2.0	ng/L	97	50 - 150	---	---	1.0	10/20/2017 14:13	10/20/2017 19:34	3804256
CCL	Perfluorooctanoic acid (PFOA)	537	2.0	---		1.9621	2.0	ng/L	98	50 - 150	---	---	1.0	10/20/2017 14:13	10/20/2017 19:34	3804256
CCL	Perfluorotridecanoic acid (PFTrDA)	537	2.0	---		2.0158	2.0	ng/L	101	50 - 150	---	---	1.0	10/20/2017 14:13	10/20/2017 19:34	3804256
CCL	Perfluoroundecanoic acid (PFUnA)	537	2.0	---		1.9582	2.0	ng/L	98	50 - 150	---	---	1.0	10/20/2017 14:13	10/20/2017 19:34	3804256
LRB	IS-NMeFOSAA-43	537	N/A	---		817541.00	783896	ng/L	104	50 - 150	---	---	1.0	10/20/2017 08:11	10/20/2017 20:08	3804246
LRB	IS-PFOA-13C2	537	N/A	---		1823210.00	1713710	ng/L	106	50 - 150	---	---	1.0	10/20/2017 08:11	10/20/2017 20:08	3804246
LRB	IS-PFOS-13C4	537	N/A	---		318081.00	304248	ng/L	105	50 - 150	---	---	1.0	10/20/2017 08:11	10/20/2017 20:08	3804246
LRB	IS-GenX-13C3	537	N/A	---		7938.98	7251.99	ng/L	109	50 - 150	---	---	1.0	10/20/2017 08:11	10/20/2017 20:08	3804246
LRB	SS-NEFOSAA-45	537	N/A	---		167.6580	200	ng/L	84	70 - 130	---	---	1.0	10/20/2017 08:11	10/20/2017 20:08	3804246
LRB	SS-PFDA-13C2	537	N/A	---		89.3803	100	ng/L	89	70 - 130	---	---	1.0	10/20/2017 08:11	10/20/2017 20:08	3804246
LRB	SS-PFHxA-13C2	537	N/A	---		44.8853	50.0	ng/L	90	70 - 130	---	---	1.0	10/20/2017 08:11	10/20/2017 20:08	3804246
LRB	Perfluorobutanesulfonic acid (PFBS)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/20/2017 08:11	10/20/2017 20:08	3804246
LRB	Perfluorodecanoic acid (PFDA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/20/2017 08:11	10/20/2017 20:08	3804246
LRB	Perfluorheptanoic acid (PFHpA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/20/2017 08:11	10/20/2017 20:08	3804246
LRB	Perfluorohexanesulfonic acid (PFHxS)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/20/2017 08:11	10/20/2017 20:08	3804246
LRB	Perfluorohexanoic acid (PFHxA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/20/2017 08:11	10/20/2017 20:08	3804246
LRB	Perfluorolauric acid (PFDoA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/20/2017 08:11	10/20/2017 20:08	3804246
LRB	Perfluoromyristic acid (PFTA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/20/2017 08:11	10/20/2017 20:08	3804246
LRB	Perfluorononanoic acid (PFNA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/20/2017 08:11	10/20/2017 20:08	3804246
LRB	Perfluorooctane sulfonate (PFOS)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/20/2017 08:11	10/20/2017 20:08	3804246
LRB	Perfluorooctanoic acid (PFOA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/20/2017 08:11	10/20/2017 20:08	3804246
LRB	Perfluorotridecanoic acid (PFTrDA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/20/2017 08:11	10/20/2017 20:08	3804246
LRB	Perfluoroundecanoic acid (PFUnA)	537	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	10/20/2017 08:11	10/20/2017 20:08	3804246
LRB	IS-NMeFOSAA-43	537	N/A	---		829611.00	783896	ng/L	106	50 - 150	---	---	1.0	10/20/2017 08:11	10/20/2017 20:08	3804247
LRB	IS-PFOA-13C2	537	N/A	---		181430.00	1713710	ng/L	106	50 - 150	---	---	1.0	10/20/2017 08:11	10/20/2017 20:41	3804247

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 #
FBM	IS-PFOS-13C4	537	N/A	---		32200.100	304248	ng/L	106	50 - 150	---	---	1.0	10/20/2017 08:11	10/20/2017 20:41	3804247
FBM	IS-GenX-13C3	537	N/A	---		8018.22	7251.99	ng/L	111	50 - 150	---	---	1.0	10/20/2017 08:11	10/20/2017 20:41	3804247
FBM	SS-NEIFOSAA-45	537	N/A	---		176.9200	200	ng/L	88	70 - 130	---	---	1.0	10/20/2017 08:11	10/20/2017 20:41	3804247
FBM	SS-PFDA-13C2	537	N/A	---		95.9543	100	ng/L	96	70 - 130	---	---	1.0	10/20/2017 08:11	10/20/2017 20:41	3804247
FBM	SS-PFHXA-13C2	537	N/A	---		44.7950	50.0	ng/L	90	70 - 130	---	---	1.0	10/20/2017 08:11	10/20/2017 20:41	3804247
FBM	Perfluorobutanesulfonic acid (PFBS)	537	2.0	---		96.2633	100	ng/L	96	70 - 130	---	---	1.0	10/20/2017 08:11	10/20/2017 20:41	3804247
FBM	Perfluorodecanoic acid (PFDA)	537	2.0	---		91.2147	100	ng/L	91	70 - 130	---	---	1.0	10/20/2017 08:11	10/20/2017 20:41	3804247
FBM	Perfluoroheptanoic acid (PFHpA)	537	2.0	---		87.3586	100	ng/L	87	70 - 130	---	---	1.0	10/20/2017 08:11	10/20/2017 20:41	3804247
FBM	Perfluorohexanesulfonic acid (PFHxS)	537	2.0	---		96.4092	100	ng/L	96	70 - 130	---	---	1.0	10/20/2017 08:11	10/20/2017 20:41	3804247
FBM	Perfluorohexanoic acid (PFHxA)	537	2.0	---		85.7089	100	ng/L	86	70 - 130	---	---	1.0	10/20/2017 08:11	10/20/2017 20:41	3804247
FBM	Perfluorolauric acid (PFDoA)	537	2.0	---		92.4863	100	ng/L	92	70 - 130	---	---	1.0	10/20/2017 08:11	10/20/2017 20:41	3804247
FBM	Perfluoromyristic acid (PFTA)	537	2.0	---		92.7493	100	ng/L	93	70 - 130	---	---	1.0	10/20/2017 08:11	10/20/2017 20:41	3804247
FBM	Perfluorononanoic acid (PFNA)	537	2.0	---		94.6323	100	ng/L	95	70 - 130	---	---	1.0	10/20/2017 08:11	10/20/2017 20:41	3804247
FBM	Perfluorooctane sulfonate (PFOS)	537	2.0	---		95.2310	100	ng/L	95	70 - 130	---	---	1.0	10/20/2017 08:11	10/20/2017 20:41	3804247
FBM	Perfluorooctanoic acid (PFOA)	537	2.0	---		91.2696	100	ng/L	91	70 - 130	---	---	1.0	10/20/2017 08:11	10/20/2017 20:41	3804247
FBM	Perfluorotridecanoic acid (PFTrDA)	537	2.0	---		93.1354	100	ng/L	93	70 - 130	---	---	1.0	10/20/2017 08:11	10/20/2017 20:41	3804247
FBM	Perfluoroundecanoic acid (PFUnA)	537	2.0	---		92.8095	100	ng/L	93	70 - 130	---	---	1.0	10/20/2017 08:11	10/20/2017 20:41	3804247
FTB	IS-NiMeFOSAA-43	537	N/A	PEF36859 FTB		960652.00	783896	ng/L	123	50 - 150	---	---	0.91	10/11/2017 08:20	10/20/2017 20:58	3793431
FTB	IS-PFOA-13C2	537	N/A	PEF36859 FTB		1874550.00	1713710	ng/L	109	50 - 150	---	---	0.91	10/11/2017 08:20	10/20/2017 20:58	3793431
FTB	IS-PFOS-13C4	537	N/A	PEF36859 FTB		328363.00	304248	ng/L	108	50 - 150	---	---	0.91	10/11/2017 08:20	10/20/2017 20:58	3793431
FTB	IS-GenX-13C3	537	N/A	PEF36859 FTB		7877.39	7251.99	ng/L	109	50 - 150	---	---	0.91	10/11/2017 08:20	10/20/2017 20:58	3793431
FTB	SS-NEIFOSAA-45	537	N/A	PEF36859 FTB		206.9500	200	ng/L	114	70 - 130	---	---	0.91	10/11/2017 08:20	10/20/2017 20:58	3793431
FTB	SS-PFDA-13C2	537	N/A	PEF36859 FTB		96.1124	100	ng/L	106	70 - 130	---	---	0.91	10/11/2017 08:20	10/20/2017 20:58	3793431
FTB	SS-PFHXA-13C2	537	N/A	PEF36859 FTB		46.2517	50.0	ng/L	102	70 - 130	---	---	0.91	10/11/2017 08:20	10/20/2017 20:58	3793431
FTB	Perfluorobutanesulfonic acid (PFBS)	537	2.0	PEF36859 FTB	<	2.0		ng/L	---	---	---	---	0.91	10/11/2017 08:20	10/20/2017 20:58	3793431
FTB	Perfluorodecanoic acid (PFDA)	537	2.0	PEF36859 FTB	<	2.0		ng/L	---	---	---	---	0.91	10/11/2017 08:20	10/20/2017 20:58	3793431
FTB	Perfluoroheptanoic acid (PFHpA)	537	2.0	PEF36859 FTB	<	2.0		ng/L	---	---	---	---	0.91	10/11/2017 08:20	10/20/2017 20:58	3793431
FTB	Perfluorohexanesulfonic acid (PFHxS)	537	2.0	PEF36859 FTB	<	2.0		ng/L	---	---	---	---	0.91	10/11/2017 08:20	10/20/2017 20:58	3793431
FTB	Perfluorohexanoic acid (PFHxA)	537	2.0	PEF36859 FTB	<	2.0		ng/L	---	---	---	---	0.91	10/11/2017 08:20	10/20/2017 20:58	3793431
FTB	Perfluoromyristic acid (PFTA)	537	2.0	PEF36859 FTB	<	2.0		ng/L	---	---	---	---	0.91	10/11/2017 08:20	10/20/2017 20:58	3793431
FTB	Perfluorononanoic acid (PFNA)	537	2.0	PEF36859 FTB	<	2.0		ng/L	---	---	---	---	0.91	10/11/2017 08:20	10/20/2017 20:58	3793431
FTB	Perfluorooctane sulfonate (PFOS)	537	2.0	PEF36859 FTB	<	2.0		ng/L	---	---	---	---	0.91	10/11/2017 08:20	10/20/2017 20:58	3793431
FTB	Perfluorooctanoic acid (PFOA)	537	2.0	PEF36859 FTB	<	2.0		ng/L	---	---	---	---	0.91	10/11/2017 08:20	10/20/2017 20:58	3793431
FTB	Perfluorotridecanoic acid (PFTrDA)	537	2.0	PEF36859 FTB	<	2.0		ng/L	---	---	---	---	0.91	10/11/2017 08:20	10/20/2017 20:58	3793431
FTB	Perfluoroundecanoic acid (PFUnA)	537	2.0	PEF36859 FTB	<	2.0		ng/L	---	---	---	---	0.91	10/11/2017 08:20	10/20/2017 20:58	3793431
LTB	IS-NiMeFOSAA-43	537	N/A	PEF36860 LTB-09/13/17		954694.00	783896	ng/L	122	50 - 150	---	---	0.9	10/11/2017 08:20	10/20/2017 21:15	3793432
LTB	IS-PFOA-13C2	537	N/A	PEF36860 LTB-09/13/17		1897490.00	1713710	ng/L	111	50 - 150	---	---	0.9	10/11/2017 08:20	10/20/2017 21:15	3793432
LTB	IS-PFOS-13C4	537	N/A	PEF36860 LTB-09/13/17		323730.00	304248	ng/L	106	50 - 150	---	---	0.9	10/11/2017 08:20	10/20/2017 21:15	3793432
LTB	IS-GenX-13C3	537	N/A	PEF36860 LTB-09/13/17		864.175	7251.99	ng/L	119	50 - 150	---	---	0.9	10/11/2017 08:20	10/20/2017 21:15	3793432
LTB	SS-NEIFOSAA-45	537	N/A	PEF36860 LTB-09/13/17		206.6310	200	ng/L	115	70 - 130	---	---	0.9	10/11/2017 08:20	10/20/2017 21:15	3793432

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 #
LTB	SS-PFDA-13C2	537	N/A	PEF36860 LTB-09/13/17		94.0926	100	ng/L	105	70 - 130	---	---	0.9	10/11/2017 08:20	10/20/2017 21:15	3793432
LTB	SS-PFHXA-13C2	537	N/A	PEF36860 LTB-09/13/17		44.5144	50.0	ng/L	99	70 - 130	---	---	0.9	10/11/2017 08:20	10/20/2017 21:15	3793432
LTB	Perfluorobutanesulfonic acid (PFBS)	537	2.0	PEF36860 LTB-09/13/17	<	2.0		ng/L	---	---	---	---	0.9	10/11/2017 08:20	10/20/2017 21:15	3793432
LTB	Perfluorodecanoic acid (PFDA)	537	2.0	PEF36860 LTB-09/13/17	<	2.0		ng/L	---	---	---	---	0.9	10/11/2017 08:20	10/20/2017 21:15	3793432
LTB	Perfluorheptanoic acid (PFHpA)	537	2.0	PEF36860 LTB-09/13/17	<	2.0		ng/L	---	---	---	---	0.9	10/11/2017 08:20	10/20/2017 21:15	3793432
LTB	Perfluorhexanesulfonic acid (PFHxS)	537	2.0	PEF36860 LTB-09/13/17	<	2.0		ng/L	---	---	---	---	0.9	10/11/2017 08:20	10/20/2017 21:15	3793432
LTB	Perfluorhexanoic acid (PFHxA)	537	2.0	PEF36860 LTB-09/13/17	<	2.0		ng/L	---	---	---	---	0.9	10/11/2017 08:20	10/20/2017 21:15	3793432
LTB	Perfluorolauric acid (PFDoA)	537	2.0	PEF36860 LTB-09/13/17	<	2.0		ng/L	---	---	---	---	0.9	10/11/2017 08:20	10/20/2017 21:15	3793432
LTB	Perfluoromyristic acid (PFTrA)	537	2.0	PEF36860 LTB-09/13/17	<	2.0		ng/L	---	---	---	---	0.9	10/11/2017 08:20	10/20/2017 21:15	3793432
LTB	Perfluorononanoic acid (PFNA)	537	2.0	PEF36860 LTB-09/13/17	<	2.0		ng/L	---	---	---	---	0.9	10/11/2017 08:20	10/20/2017 21:15	3793432
LTB	Perfluorooctane sulfonate (PFOS)	537	2.0	PEF36860 LTB-09/13/17	<	2.0		ng/L	---	---	---	---	0.9	10/11/2017 08:20	10/20/2017 21:15	3793432
LTB	Perfluorooctanoic acid (PFOA)	537	2.0	PEF36860 LTB-09/13/17	<	2.0		ng/L	---	---	---	---	0.9	10/11/2017 08:20	10/20/2017 21:15	3793432
LTB	Perfluorotridecanoic acid (PFTrDA)	537	2.0	PEF36860 LTB-09/13/17	<	2.0		ng/L	---	---	---	---	0.9	10/11/2017 08:20	10/20/2017 21:15	3793432
LTB	Perfluoroundecanoic acid (PFUnA)	537	2.0	PEF36860 LTB-09/13/17	<	2.0		ng/L	---	---	---	---	0.9	10/11/2017 08:20	10/20/2017 21:15	3793432
CCM	IS-NiMeFOSAA-d3	537	N/A	---		818341.00	818341	ng/L	100	50 - 150	---	---	1.0	10/20/2017 14:13	10/21/2017 00:53	3804257
CCM	IS-PFOA-13C2	537	N/A	---		1768840.00	1768840	ng/L	100	50 - 150	---	---	1.0	10/20/2017 14:13	10/21/2017 00:53	3804257
CCM	IS-PFOS-13C4	537	N/A	---		313944.00	313944	ng/L	100	50 - 150	---	---	1.0	10/20/2017 14:13	10/21/2017 00:53	3804257
CCM	IS-GenX-13C3	537	N/A	---		7563.04	7563.04	ng/L	100	50 - 150	---	---	1.0	10/20/2017 14:13	10/21/2017 00:53	3804257
CCM	SS-NEiFOSAA-d5	537	N/A	---		201.8620	200	ng/L	101	70 - 130	---	---	1.0	10/20/2017 14:13	10/21/2017 00:53	3804257
CCM	SS-PFDA-13C2	537	N/A	---		98.3485	100	ng/L	98	70 - 130	---	---	1.0	10/20/2017 14:13	10/21/2017 00:53	3804257
CCM	SS-PFHXA-13C2	537	N/A	---		48.6021	50.0	ng/L	97	70 - 130	---	---	1.0	10/20/2017 14:13	10/21/2017 00:53	3804257
CCM	Perfluorobutanesulfonic acid (PFBS)	537	2.0	---		97.6198	100	ng/L	98	70 - 130	---	---	1.0	10/20/2017 14:13	10/21/2017 00:53	3804257
CCM	Perfluorodecanoic acid (PFDA)	537	2.0	---		97.8170	100	ng/L	98	70 - 130	---	---	1.0	10/20/2017 14:13	10/21/2017 00:53	3804257
CCM	Perfluorheptanoic acid (PFHpA)	537	2.0	---		96.5528	100	ng/L	97	70 - 130	---	---	1.0	10/20/2017 14:13	10/21/2017 00:53	3804257
CCM	Perfluorhexanesulfonic acid (PFHxS)	537	2.0	---		97.5045	100	ng/L	98	70 - 130	---	---	1.0	10/20/2017 14:13	10/21/2017 00:53	3804257
CCM	Perfluorhexanoic acid (PFHxA)	537	2.0	---		96.6162	100	ng/L	97	70 - 130	---	---	1.0	10/20/2017 14:13	10/21/2017 00:53	3804257
CCM	Perfluorolauric acid (PFDoA)	537	2.0	---		96.2915	100	ng/L	96	70 - 130	---	---	1.0	10/20/2017 14:13	10/21/2017 00:53	3804257
CCM	Perfluoromyristic acid (PFTrA)	537	2.0	---		98.5777	100	ng/L	99	70 - 130	---	---	1.0	10/20/2017 14:13	10/21/2017 00:53	3804257
CCM	Perfluorononanoic acid (PFNA)	537	2.0	---		99.4858	100	ng/L	99	70 - 130	---	---	1.0	10/20/2017 14:13	10/21/2017 00:53	3804257
CCM	Perfluorooctane sulfonate (PFOS)	537	2.0	---		98.1474	100	ng/L	98	70 - 130	---	---	1.0	10/20/2017 14:13	10/21/2017 00:53	3804257
CCM	Perfluorooctanoic acid (PFOA)	537	2.0	---		98.4584	100	ng/L	98	70 - 130	---	---	1.0	10/20/2017 14:13	10/21/2017 00:53	3804257
CCM	Perfluorotridecanoic acid (PFTrDA)	537	2.0	---		99.0507	100	ng/L	99	70 - 130	---	---	1.0	10/20/2017 14:13	10/21/2017 00:53	3804257
CCM	Perfluoroundecanoic acid (PFUnA)	537	2.0	---		97.6129	100	ng/L	98	70 - 130	---	---	1.0	10/20/2017 14:13	10/21/2017 00:53	3804257

## Sample Type Key

<u>Type (Abbr.)</u>	<u>Sample Type</u>	<u>Type (Abbr.)</u>	<u>Sample Type</u>
CCH	Continuing Calibration High		
CCL	Continuing Calibration Low		
CCM	Continuing Calibration Mid		
FD	Field Duplicate		
FS	Field Sample		
FTB	Field Trip Blank		
FBL	Fortified Blank Low		
FBM	Fortified Blank Mid		
LRB	Laboratory Reagent Blank		
LTB	Laboratory Trip Blank		
UQC SM	Unextracted QCS Mid		



END OF REPORT