



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

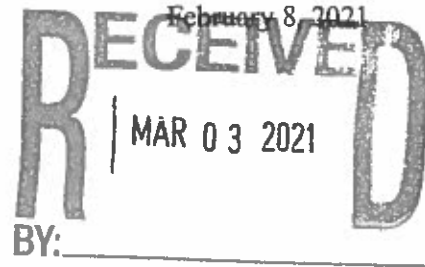
1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397

JB PRITZKER, GOVERNOR

JOHN J. KIM, DIRECTOR

217-782-1020

MR. ROBERT O'DEKIRK
JOLIET
150 WEST JEFFERSON STREET
JOLIET, IL 60432



Re: IL1978100, LOCKPORT TOWNSHIP WATER SYSTEM

Notice of PFAS Sample Results Below Minimum Reporting Levels

Dear Municipal/Water Supply Official(s):

The purpose of this letter is to notify you of the results of analyses for Per- and Polyfluoroalkyl Substance (PFAS) in finished water samples collected by the Illinois Environmental Protection Agency (Illinois EPA) from your community water supply (CWS) at the entry point to the distribution system.

The Illinois EPA's sample analysis included a total of 18 PFAS. These contaminants were not present in your CWS at concentrations greater than or equal to the minimum reporting levels. A copy of the laboratory report is enclosed for your review.

Additional information regarding PFAS, the statewide PFAS investigation network, and the impact to public health can be found on the Illinois EPA PFAS webpage:

<https://www2.illinois.gov/epa/topics/community-relations/sites/PFAS/Pages/default.aspx>.

Illinois EPA thanks you for your participation in the collection of data for its State of Illinois PFAS investigation network. If you have any questions, please contact the Groundwater Section, Division of Public Water Supplies at (217) 782-1020 or pfas@illinois.gov.

Sincerely,

Michael L. Brown, Manager
Division of Public Water Supplies

cc: ROINC
Regional Office

2125 S. First Street, Champaign, IL 61820 (217) 278-5800
2009 Mall Street Collinsville, IL 62234 (618) 346-5120
9511 Harrison Street, Des Plaines, IL 60016 (847) 294-4000
595 S. State Street, Elgin, IL 60123 (847) 608-3131

2309 W. Main Street, Suite 116, Marion, IL 62959 (618) 993-7200
412 SW Washington Street, Suite D, Peoria, IL 61602 (309) 671-3022
4302 N. Main Street, Rockford, IL 61103 (815) 987-7760

LABORATORY REPORT

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

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STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Missouri	880
Alaska	IN00035	Montana	CERT0026
Arizona	AZ0432	Nebraska	NE-OS-05-04
Arkansas	IN00035	Nevada	IN00035
California	2920	New Hampshire*	2124
Colorado	IN00035	New Jersey*	IN598
Colorado Radiochemistry	IN00035	New Mexico	IN00035
Connecticut	PH-0132	New York*	11398
Delaware	IN035	North Carolina	18700
Florida(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

NELAC NARRATIVE PAGE

Client: Illinois EPA

Report #: 508853NP

Eurofins Eaton Analytical, LLC is a NELAP accredited laboratory. All reported results meet the requirements of the NELAC standards, unless otherwise noted.

EEA contact person: Traci Chlebowski

NELAP requires complete reporting of deviations from method requirements, regardless of the suspected impact on the data. Quality control failures not reported within the report summary are noted here.

There were no quality control failures.

Note: This report may not be reproduced, except in full, without written approval from EEA. EEA is accredited by the National Environmental Laboratory Accreditation Program (NELAP).

Traci Chlebowski ASM 02/02/2021
Authorized Signature Title Date

Page 1 of 1



Eaton Analytical

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

Laboratory Report

Client: Illinois EPA
Attn: Anthony Dulka
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62794

Report: 508853
Priority: Standard Written
Status: Final
PWS ID: IL1978100

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4820456	TP01	537.1	01/25/21 10:10	Client	01/26/21 10:00

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 Traci Chlebowski at (574) 233-4777.

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Traci Chlebowski ASM

Authorized Signature

Title

02/02/2021

Date

Client Name: Illinois EPA

Report #: 508853

Sampling Point: TP01

PWS ID: IL1978100

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
335-67-1	Perfluorooctanoic acid (PFOA) \$	537.1	---	2.0	< 2.0	ng/L	01/29/21 06:15	01/30/21 04:12	4820456
1763-23-1	Perfluorooctanesulfonic acid (PFOS) \$	537.1	---	2.0	< 2.0	ng/L	01/29/21 06:15	01/30/21 04:12	4820456
375-73-5	Perfluorobutanesulfonic acid (PFBS) \$	537.1	---	2.0	< 2.0	ng/L	01/29/21 06:15	01/30/21 04:12	4820456
375-85-9	Perfluoroheptanoic acid (PFHpA) \$	537.1	---	2.0	< 2.0	ng/L	01/29/21 06:15	01/30/21 04:12	4820456
355-46-4	Perfluorohexanesulfonic acid (PFHxS) \$	537.1	---	2.0	< 2.0	ng/L	01/29/21 06:15	01/30/21 04:12	4820456
375-95-1	Perfluorononanoic acid (PFNA) \$	537.1	---	2.0	< 2.0	ng/L	01/29/21 06:15	01/30/21 04:12	4820456
335-76-2	Perfluorodecanoic acid (PFDA) \$	537.1	---	2.0	< 2.0	ng/L	01/29/21 06:15	01/30/21 04:12	4820456
307-24-4	Perfluorohexanoic acid (PFHxA) \$	537.1	---	2.0	< 2.0	ng/L	01/29/21 06:15	01/30/21 04:12	4820456
307-55-1	Perfluorododecanoic acid (PFDoA) \$	537.1	---	2.0	< 2.0	ng/L	01/29/21 06:15	01/30/21 04:12	4820456
72629-94-8	Perfluorotridecanoic acid (PFTTrDA) \$	537.1	---	2.0	< 2.0	ng/L	01/29/21 06:15	01/30/21 04:12	4820456
2058-94-8	Perfluoroundecanoic acid (PFUnA) \$	537.1	---	2.0	< 2.0	ng/L	01/29/21 06:15	01/30/21 04:12	4820456
2991-50-6	N-ethyl Perfluorooctanesulfonamidoacetic acid \$	537.1	---	2.0	< 2.0	ng/L	01/29/21 06:15	01/30/21 04:12	4820456
2355-31-9	N-methyl Perfluorooctanesulfonamidoacetic acid \$	537.1	---	2.0	< 2.0	ng/L	01/29/21 06:15	01/30/21 04:12	4820456
13252-13-6	HFPO-DA/GenX \$	537.1	---	2.0	< 2.0	ng/L	01/29/21 06:15	01/30/21 04:12	4820456
919005-14-4	ADONA \$	537.1	---	2.0	< 2.0	ng/L	01/29/21 06:15	01/30/21 04:12	4820456
756426-58-1	9Cl-PF3ONS/F-53B Major \$	537.1	---	2.0	< 2.0	ng/L	01/29/21 06:15	01/30/21 04:12	4820456
763051-92-9	11Cl-PF3OUdS/F-53B Minor \$	537.1	---	2.0	< 2.0	ng/L	01/29/21 06:15	01/30/21 04:12	4820456
376-06-7	Perfluorotetradecanoic acid (PFTeDA) \$	537.1	---	2.0	< 2.0	ng/L	01/29/21 06:15	01/30/21 04:12	4820456

\$ The state of origin does not offer certification for this parameter.

† 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: $(MS \text{ or } MSD \text{ value} - \text{Sample value}) * 100 / \text{spike target} / \text{dilution factor} = \text{Recovery } \%$

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.

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

Laboratory Report

Client: Illinois EPA
 Attn: Anthony Dulka
 Bureau of Water
 1021 North Grand Avenue East
 Springfield, IL 62794

Report: 508853
 Priority: Standard Written
 Status: Final
 PWS ID: IL1978100

Sample Information					
EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
4820457	TP01 FTB	537.1	01/25/21 10:10	Client	01/26/21 10:00

Report Summary

The analysis was cancelled at the request of the client.

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.

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Traci Chlebowski ASM

Authorized Signature

Title

Page 1 of 1

02/02/2021

Date



Eaton Analytical

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

Order # 414294
Batch # 50853

URL: <http://eurofins.com/EEA>

CHAIN OF CUSTODY RECORD

Shaded area for EEA use only

PWS Name LOCKPORT TOWNSHIP WATER SYSTEM		SAMPLER (Signature) Dan Hopkins/Bates Wilkinson		STATE (sample origin) IL		Region Des Plaines		PWS 20-532EPA-Water-P-17351		# OF CONTAINERS 2		TURNAROUND TIME DW SW	
BILL TO: IL EPA Fiscal Services Mail Code #2 1021 North Grand Avenue East Springfield, IL 62794		COMPLIANCE MONITORING SPECIAL		POPULATION SERVED		Residual Chlorine (P/A)		Chlorinated YES NO <input checked="" type="checkbox"/> <input type="checkbox"/>					
LAB Number 4820456 / 4820457		SAMPLING SITE TPO1		TEST NAME PFAS (18 compounds) - Method 537.1		pH accip. table? <input type="checkbox"/>							
COLLECTION		RECEIVED BY: (Signature) <i>Dave Welch</i>		DATE 11/25/2021		TIME 12:20							
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DATE 11/25/2021		DATE 11/25/2021		DATE 01-24-202									



Eaton Analytical

Eurofins Eaton Analytical Run Log

Run ID: 284894 Method: 537.1

<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	4822893		OS	GA	01/29/2021 23:36	012921M537.1a.wiff
LRB	4822882		RW	GA	01/29/2021 23:58	012921M537.1a.wiff
FBL	4822883		RW	GA	01/30/2021 00:08	012921M537.1a.wiff
FBH	4822884		RW	GA	01/30/2021 00:19	012921M537.1a.wiff
FS	4820456	TP01	DW	GA	01/30/2021 04:12	012921M537.1a.wiff
CCM	4822894		OS	GA	01/30/2021 04:23	012921M537.1a.wiff

QC Summary Report

Sample Type	Analyte	Method	MDA#5	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCL	Perfluorooctanoic acid (PFOA)	537.1	2.0	--		1.9582	2.0	ng/L	98	50 - 150	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	--		1.9556	2.0	ng/L	98	50 - 150	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	IS-NMeFOSAA-d3	537.1	N/A	--		1102667	1102666.9	ng/L	100	50 - 150	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	IS-PFOA-13C2	537.1	N/A	--		1321448	1321448.0	ng/L	100	50 - 150	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	IS-PFOS-13C4	537.1	N/A	--		6034400	3034399.7	ng/L	100	50 - 150	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	SS-NEIFOSAA-d5	537.1	N/A	--		162.1481	160	ng/L	101	70 - 130	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	SS-PFDA-13C2	537.1	N/A	--		39.9888	40.0	ng/L	100	70 - 130	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	SS-PFHxA-13C2	537.1	N/A	--		41.4954	40.0	ng/L	104	70 - 130	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	--		1.8694	2.0	ng/L	93	50 - 150	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	--		1.8719	2.0	ng/L	94	50 - 150	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	--		1.8158	2.0	ng/L	91	50 - 150	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	Perfluorononanoic acid (PFNA)	537.1	2.0	--		1.9242	2.0	ng/L	96	50 - 150	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	Perfluorodecanoic acid (PFDA)	537.1	2.0	--		1.9301	2.0	ng/L	97	50 - 150	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	--		1.9579	2.0	ng/L	98	50 - 150	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	Perfluorododecanoic acid (PFDoA)	537.1	2.0	--		1.9471	2.0	ng/L	97	50 - 150	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	Perfluorotridecanoic acid (PFTriDA)	537.1	2.0	--		2.0017	2.0	ng/L	100	50 - 150	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	--		1.9660	2.0	ng/L	98	50 - 150	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	N-butyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	--		2.0521	2.0	ng/L	103	50 - 150	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	N-methyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	--		1.8582	2.0	ng/L	93	50 - 150	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	HFPO-DA/GenX	537.1	2.0	--		1.9526	2.0	ng/L	98	50 - 150	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	ADONA	537.1	2.0	--		1.9540	2.0	ng/L	98	50 - 150	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	9Cl-PF3ONSJF-53B Major	537.1	2.0	--		1.8276	2.0	ng/L	91	50 - 150	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	11Cl-PF3OUJdF-53B Minor	537.1	2.0	--		1.8420	2.0	ng/L	92	50 - 150	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	--		1.8320	2.0	ng/L	92	50 - 150	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
CCL	SS-HFO-DA-13C3	537.1	N/A	--		39.1865	40.0	ng/L	98	70 - 130	--	1.0	01/27/2021 08:12	01/29/2021 23:36	4822893
LRB	Perfluorooctanoic acid (PFOA)	537.1	2.0	--	<	2.0		ng/L	--	--	--	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
LRB	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	--	<	2.0		ng/L	--	--	--	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
LRB	IS-NMeFOSAA-d3	537.1	N/A	--		1251256	1102666.9	ng/L	113	50 - 150	--	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
LRB	IS-PFOA-13C2	537.1	N/A	--		1529597	1321448.0	ng/L	116	50 - 150	--	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
LRB	IS-PFOS-13C4	537.1	N/A	--		6713777	3034399.7	ng/L	111	50 - 150	--	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
LRB	SS-NEIFOSAA-d5	537.1	N/A	--		132.7508	160	ng/L	83	70 - 130	--	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
LRB	SS-PFDA-13C2	537.1	N/A	--		34.9125	40.0	ng/L	87	70 - 130	--	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
LRB	SS-PFHxA-13C2	537.1	N/A	--		36.1185	40.0	ng/L	90	70 - 130	--	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
LRB	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	--	<	2.0		ng/L	--	--	--	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	--	<	2.0		ng/L	--	--	--	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
LRB	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	--	<	2.0		ng/L	--	--	--	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
LRB	Perfluorononanoic acid (PFNA)	537.1	2.0	--	<	2.0		ng/L	--	--	--	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
LRB	Perfluorodecanoic acid (PFDA)	537.1	2.0	--	<	2.0		ng/L	--	--	--	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
LRB	Perfluorohexanoic acid (PFHxA)	537.1	2.0	--	<	2.0		ng/L	--	--	--	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
LRB	Perfluorododecanoic acid (PFDoA)	537.1	2.0	--	<	2.0		ng/L	--	--	--	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882

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 #
LRB	Perfluorotridecanoic acid (PFTDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
LRB	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
LRB	N-ethyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
LRB	N-methyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
LRB	HFPO-DA/GenX	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
LRB	ADONA	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
LRB	9Cl-PF3ONSf-53B Major	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
LRB	11Cl-PF3OUdSf-53B Minor	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
LRB	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---	<	2.0		ng/L	---	---	---	---	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
LRB	SS-HFO-DA-13C3	537.1	N/A	---		35.7378	40.0	ng/L	89	70 - 130	---	---	1.0	01/29/2021 06:15	01/29/2021 23:58	4822882
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		1.9433	2.0	ng/L	97	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		1.8707	2.0	ng/L	94	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	IS-NMeFOSAA-d3	537.1	N/A	---		1296201	1102886.9	ng/L	118	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	IS-PFOA-13C2	537.1	N/A	---		1585608	1321448.0E	ng/L	120	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	IS-PFOS-13C4	537.1	N/A	---		6967108	3034399.7	ng/L	115	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	SS-NEIFOSAA-d5	537.1	N/A	---		149.8637	160	ng/L	94	70 - 130	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	SS-PFDA-13C2	537.1	N/A	---		37.5728	40.0	ng/L	94	70 - 130	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	SS-PFHxA-13C2	537.1	N/A	---		36.4919	40.0	ng/L	91	70 - 130	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	---		1.6347	2.0	ng/L	82	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	Perfluorooheptanoic acid (PFHpA)	537.1	2.0	---		1.7513	2.0	ng/L	88	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	---		1.7261	2.0	ng/L	86	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	Perfluorononanoic acid (PFNA)	537.1	2.0	---		1.7710	2.0	ng/L	89	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	Perfluorodecanoic acid (PFDA)	537.1	2.0	---		1.7934	2.0	ng/L	90	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	Perfluorohexanoic acid (PFHxA)	537.1	2.0	---		1.8810	2.0	ng/L	94	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	Perfluorododecanoic acid (PFDDoA)	537.1	2.0	---		1.7013	2.0	ng/L	85	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	Perfluorotridecanoic acid (PFTDA)	537.1	2.0	---		1.4648	2.0	ng/L	73	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	---		1.6820	2.0	ng/L	84	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	N-ethyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	---		1.7520	2.0	ng/L	88	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	N-methyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	---		1.7558	2.0	ng/L	88	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	HFPO-DA/GenX	537.1	2.0	---		1.7997	2.0	ng/L	90	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	ADONA	537.1	2.0	---		1.8690	2.0	ng/L	93	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	9Cl-PF3ONSf-53B Major	537.1	2.0	---		1.7479	2.0	ng/L	87	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	11Cl-PF3OUdSf-53B Minor	537.1	2.0	---		1.6699	2.0	ng/L	83	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	---		1.4545	2.0	ng/L	73	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	SS-HFO-DA-13C3	537.1	N/A	---		36.7848	40.0	ng/L	92	70 - 130	---	---	1.0	01/29/2021 06:15	01/30/2021 00:08	4822883
FBL	Perfluorooctanoic acid (PFOA)	537.1	2.0	---		189.9859	200	ng/L	95	70 - 130	---	---	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FBL	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	---		187.5002	200	ng/L	94	70 - 130	---	---	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FBL	IS-NMeFOSAA-d3	537.1	N/A	---		1252959	1102886.9	ng/L	114	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FBL	IS-PFOA-13C2	537.1	N/A	---		1520803	1321448.0E	ng/L	115	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FBL	IS-PFOS-13C4	537.1	N/A	---		6729122	3034399.7	ng/L	112	50 - 150	---	---	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FBL	SS-NEIFOSAA-d5	537.1	N/A	---		138.7692	160	ng/L	87	70 - 130	---	---	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FBH	SS-PFDA-13C2	537.1	N/A	--		35.8511	40.0	ng/L	90	70 - 130	--	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FBH	SS-PFHxA-13C2	537.1	N/A	--		36.8470	40.0	ng/L	92	70 - 130	--	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FBH	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	--		156.6872	200	ng/L	78	70 - 130	--	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FBH	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	--		189.9125	200	ng/L	95	70 - 130	--	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FBH	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	--		189.2728	200	ng/L	95	70 - 130	--	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FBH	Perfluorodecanesulfonic acid (PFDoA)	537.1	2.0	--		184.7376	200	ng/L	92	70 - 130	--	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FBH	Perfluorododecanesulfonic acid (PFDDA)	537.1	2.0	--		181.1372	200	ng/L	91	70 - 130	--	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FBH	Perfluorohexanoic acid (PFHxA)	537.1	2.0	--		182.6359	200	ng/L	91	70 - 130	--	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FBH	Perfluorododecanoic acid (PFDDa)	537.1	2.0	--		170.8760	200	ng/L	85	70 - 130	--	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FBH	Perfluorotridecanoic acid (PFTDA)	537.1	2.0	--		168.7365	200	ng/L	84	70 - 130	--	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FBH	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	--		177.2957	200	ng/L	89	70 - 130	--	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FBH	N-ethyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	--		172.4113	200	ng/L	86	70 - 130	--	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FBH	N-methyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	--		172.6331	200	ng/L	86	70 - 130	--	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FBH	HFPO-DA/GenX	537.1	2.0	--		177.6659	200	ng/L	89	70 - 130	--	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FBH	ADONA	537.1	2.0	--		191.1996	200	ng/L	96	70 - 130	--	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FBH	9Cl-PF3ONS/F-53B Major	537.1	2.0	--		185.9231	200	ng/L	93	70 - 130	--	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FBH	11Cl-PF3OJdS/F-53B Minor	537.1	2.0	--		178.2493	200	ng/L	89	70 - 130	--	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FBH	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	--		163.7728	200	ng/L	82	70 - 130	--	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FBH	SS-HFPO-DA-13C3	537.1	N/A	--		36.4176	40.0	ng/L	91	70 - 130	--	1.0	01/29/2021 06:15	01/30/2021 00:19	4822884
FS	Perfluorooctanoic acid (PFOA)	537.1	2.0	TP01	<	2.0		ng/L	--	--	--	0.89	01/29/2021 06:15	01/30/2021 04:12	4820456
FS	Perfluorodecanoic acid (PFDoA)	537.1	2.0	TP01	<	2.0		ng/L	--	--	--	0.89	01/29/2021 06:15	01/30/2021 04:12	4820456
FS	Perfluorododecanoic acid (PFDDA)	537.1	N/A	TP01		1298703	1102686.9	ng/L	112	50 - 150	--	0.89	01/29/2021 06:15	01/30/2021 04:12	4820456
FS	IS-NMeFOSAA-d3	537.1	N/A	TP01		1474510	1321448.0	ng/L	112	50 - 150	--	0.89	01/29/2021 06:15	01/30/2021 04:12	4820456
FS	IS-PFOA-13C2	537.1	N/A	TP01		6829089	3034399.7	ng/L	113	50 - 150	--	0.89	01/29/2021 06:15	01/30/2021 04:12	4820456
FS	IS-PFOS-13C4	537.1	N/A	TP01		110.3833	160	ng/L	78	70 - 130	--	0.89	01/29/2021 06:15	01/30/2021 04:12	4820456
FS	SS-NEFO SAA-d5	537.1	N/A	TP01		31.3985	40.0	ng/L	88	70 - 130	--	0.89	01/29/2021 06:15	01/30/2021 04:12	4820456
FS	SS-PFDA-13C2	537.1	N/A	TP01		34.9157	40.0	ng/L	98	70 - 130	--	0.89	01/29/2021 06:15	01/30/2021 04:12	4820456
FS	SS-PFHxA-13C2	537.1	2.0	TP01	<	2.0		ng/L	--	--	--	0.89	01/29/2021 06:15	01/30/2021 04:12	4820456
FS	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0	TP01	<	2.0		ng/L	--	--	--	0.89	01/29/2021 06:15	01/30/2021 04:12	4820456
FS	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0	TP01	<	2.0		ng/L	--	--	--	0.89	01/29/2021 06:15	01/30/2021 04:12	4820456
FS	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0	TP01	<	2.0		ng/L	--	--	--	0.89	01/29/2021 06:15	01/30/2021 04:12	4820456
FS	Perfluorodecanoic acid (PFDDA)	537.1	2.0	TP01	<	2.0		ng/L	--	--	--	0.89	01/29/2021 06:15	01/30/2021 04:12	4820456
FS	Perfluorododecanoic acid (PFDDa)	537.1	2.0	TP01	<	2.0		ng/L	--	--	--	0.89	01/29/2021 06:15	01/30/2021 04:12	4820456
FS	Perfluorotridecanoic acid (PFTDA)	537.1	2.0	TP01	<	2.0		ng/L	--	--	--	0.89	01/29/2021 06:15	01/30/2021 04:12	4820456
FS	Perfluoroundecanoic acid (PFUnA)	537.1	2.0	TP01	<	2.0		ng/L	--	--	--	0.89	01/29/2021 06:15	01/30/2021 04:12	4820456
FS	N-ethyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	TP01	<	2.0		ng/L	--	--	--	0.89	01/29/2021 06:15	01/30/2021 04:12	4820456
FS	N-methyl Perfluorooctanesulfonamideacetic acid	537.1	2.0	TP01	<	2.0		ng/L	--	--	--	0.89	01/29/2021 06:15	01/30/2021 04:12	4820456
FS	HFPO-DA/GenX	537.1	2.0	TP01	<	2.0		ng/L	--	--	--	0.89	01/29/2021 06:15	01/30/2021 04:12	4820456
FS	ADONA	537.1	2.0	TP01	<	2.0		ng/L	--	--	--	0.89	01/29/2021 06:15	01/30/2021 04:12	4820456
FS	9Cl-PF3ONS/F-53B Major	537.1	2.0	TP01	<	2.0		ng/L	--	--	--	0.89	01/29/2021 06:15	01/30/2021 04:12	4820456

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD Limit	RPD Factor	Extracted	Analyzed	EEA ID #
FS	11CI-PF3OUdSF-53B Minor	537.1	2.0	TP01	<	2.0		ng/L				0.89	01/29/2021 08:15	01/30/2021 04:12	4820456
FS	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0	TP01	<	2.0		ng/L				0.89	01/29/2021 08:15	01/30/2021 04:12	4820456
FS	SS-HFPO-DA-13C3	537.1	N/A	TP01		33.0251	40.0	ng/L	93	70 - 130		0.89	01/29/2021 08:15	01/30/2021 04:12	4820456
CCM	Perfluorooctanoic acid (PFOA)	537.1	2.0			98.4337	100	ng/L	98	70 - 130		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	Perfluorooctanesulfonic acid (PFOS)	537.1	2.0			99.0572	100	ng/L	99	70 - 130		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	IS-NMeFOSAA-43	537.1	N/A			1182535	1182534.7€	ng/L	100	50 - 150		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	IS-PFOA-13C2	537.1	N/A			1444370	1444369.91	ng/L	100	50 - 150		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	IS-PFOS-13C4	537.1	N/A			6502054	3502054.3€	ng/L	100	50 - 150		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	SS-NEFOSAA-45	537.1	N/A			162.5012	160	ng/L	102	70 - 130		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	SS-PFDA-13C2	537.1	N/A			39.9692	40.0	ng/L	100	70 - 130		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	SS-PFHA-13C2	537.1	N/A			40.5088	40.0	ng/L	101	70 - 130		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	Perfluorobutanesulfonic acid (PFBS)	537.1	2.0			100.7788	100	ng/L	101	70 - 130		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	Perfluorohexanoic acid (PFHpA)	537.1	2.0			96.2762	100	ng/L	96	70 - 130		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	Perfluorohexanesulfonic acid (PFHxS)	537.1	2.0			98.5761	100	ng/L	98	70 - 130		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	Perfluorononanoic acid (PFNA)	537.1	2.0			98.4839	100	ng/L	98	70 - 130		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	Perfluorodecanoic acid (PFDA)	537.1	2.0			97.8358	100	ng/L	98	70 - 130		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	Perfluorohexanoic acid (PFHxA)	537.1	2.0			103.9668	100	ng/L	104	70 - 130		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	Perfluorododecanoic acid (PFDoA)	537.1	2.0			99.7269	100	ng/L	100	70 - 130		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	Perfluorotridecanoic acid (PFTriDA)	537.1	2.0			96.2621	100	ng/L	99	70 - 130		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	Perfluoroundecanoic acid (PFUnA)	537.1	2.0			100.6659	100	ng/L	101	70 - 130		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	N-ethyl Perfluorooctanesulfonamideacetic acid	537.1	2.0			99.4025	100	ng/L	99	70 - 130		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	N-methyl Perfluorooctanesulfonamideacetic acid	537.1	2.0			96.1570	100	ng/L	96	70 - 130		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	HFPO-DA/GenX	537.1	2.0			96.5294	100	ng/L	97	70 - 130		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	ADONA	537.1	2.0			101.5987	100	ng/L	102	70 - 130		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	9CI-PF3ONS/F-53B Major	537.1	2.0			97.7413	100	ng/L	98	70 - 130		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	11CI-PF3OUdSF-53B Minor	537.1	2.0			98.6681	100	ng/L	99	70 - 130		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	Perfluorotetradecanoic acid (PFTeDA)	537.1	2.0			102.6187	100	ng/L	103	70 - 130		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894
CCM	SS-HFPO-DA-13C3	537.1	N/A			39.1070	40.0	ng/L	98	70 - 130		1.0	01/27/2021 09:12	01/30/2021 04:23	4822894

Sample Type Key

<u>Type (Abbr.)</u>	<u>Sample Type</u>	<u>Type (Abbr.)</u>	<u>Sample Type</u>
CCL	Continuing Calibration Low		
CCM	Continuing Calibration Mid		
FS	Field Sample		
FBH	Fortified Blank High		
FBL	Fortified Blank Low		
LRB	Laboratory Reagent Blank		

END OF REPORT