

ANALYTICAL REPORT

Job Number: 410-12790-1

Job Description: Anvil 10-10 Tests

For:

PEER

962 Wayne Avenue

Suite 610

Silver Spring, MD 20910

Attention: Tim Whitehouse



Approved for release.
Ken Hayes
Project Manager II
9/15/2020 10:29 AM

Designee for
Mary Kate Izzo, Project Manager
2425 New Holland Pike, Lancaster, PA, 17601
(717)556-4656
marykateizzo@eurofinsus.com
09/15/2020

cc: Kyla Bennett

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Job Number: 410-12790-1

Job Description: Anvil 10-10 Tests

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

* QC recoveries that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result.

* Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

* Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Definitions/Glossary

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Qualifiers

LCMS

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*1	LCS/LCSD RPD exceeds control limits.
*5	Isotope dilution analyte is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-12790-1

Receipt

The samples were received on 9/2/2020 6:15 PM; the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 18.8°C

LCMS

Method PFC_IDA: The labeled isotope recovery for the following sample, method blank, Laboratory Control Spike and Laboratory Control Spike duplicate were outside of the QC acceptance limits as noted on the QC Summary: 2-Anvil 10x10 (410-12790-2). The following action was taken: The sample was re-extracted within the required holding time and the labeled isotope recovery was again outside of the QC acceptance limits. The recovery for target analyte(s) were outside of the QC limits in the Laboratory Control Spike and Laboratory Control Spike duplicate associated with the following sample: 2-Anvil 10x10 (410-12790-2). The following action was taken: The sample was re-extracted within the required holding time and the recovery for target analyte(s) was again outside the QC acceptance limits. 2-Anvil 10x10 (410-12790-2)

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

Detection Summary

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Client Sample ID: 1-Field Blank

Lab Sample ID: 410-12790-1

No Detections.

Client Sample ID: 2-Anvil 10x10

Lab Sample ID: 410-12790-2

No Detections.

Client Sample Results

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Client Sample ID: 1-Field Blank

Lab Sample ID: 410-12790-1

Date Collected: 09/01/20 11:00

Matrix: Water

Date Received: 09/02/20 18:15

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		1.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
Perfluoroheptanoic acid	ND		1.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
Perfluorooctanoic acid	ND		1.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
Perfluorononanoic acid	ND		1.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
Perfluorodecanoic acid	ND		1.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
Perfluorotridecanoic acid	ND		1.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
Perfluorotetradecanoic acid	ND		1.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
Perfluorobutanesulfonic acid	ND		1.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
Perfluorohexanesulfonic acid	ND		1.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
Perfluorooctanesulfonic acid	ND		1.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
NEtFOSAA	ND		2.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
NMeFOSAA	ND		1.8	0.55	ng/L		09/03/20 11:02	09/04/20 17:53	1
10:2 FTS	ND		4.6	0.92	ng/L		09/03/20 11:02	09/04/20 17:53	1
Perfluoropentanesulfonic acid	ND		1.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
Perfluoroheptanesulfonic acid	ND		1.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
Perfluorononanesulfonic acid	ND		1.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
Perfluorodecanesulfonic acid	ND		1.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
Perfluorooctanesulfonamide	ND		1.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
Perfluorohexadecanoic acid	ND		2.8	0.92	ng/L		09/03/20 11:02	09/04/20 17:53	1
Perfluorooctadecanoic acid	ND		2.8	0.92	ng/L		09/03/20 11:02	09/04/20 17:53	1
Perfluorobutanoic acid	ND		4.6	1.8	ng/L		09/03/20 11:02	09/04/20 17:53	1
Perfluoropentanoic acid	ND		1.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
NMeFOSE	ND		2.8	0.92	ng/L		09/03/20 11:02	09/04/20 17:53	1
NMeFOSA	ND		2.8	0.92	ng/L		09/03/20 11:02	09/04/20 17:53	1
NEtFOSE	ND		2.8	0.92	ng/L		09/03/20 11:02	09/04/20 17:53	1
NEtFOSA	ND		4.6	0.92	ng/L		09/03/20 11:02	09/04/20 17:53	1
HFPODA	ND		2.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
DONA	ND		1.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
9Cl-PF3ONS	ND		1.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
11Cl-PF3OUdS	ND		1.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
Perfluorododecanoic acid	ND		1.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
4:2 Fluorotelomer sulfonic acid	ND		1.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
Perfluoroundecanoic acid	ND		1.8	0.46	ng/L		09/03/20 11:02	09/04/20 17:53	1
6:2 Fluorotelomer sulfonic acid	ND		4.6	1.8	ng/L		09/03/20 11:02	09/04/20 17:53	1
8:2 Fluorotelomer sulfonic acid	ND		2.8	0.92	ng/L		09/03/20 11:02	09/04/20 17:53	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
M2-4:2 FTS	102		20 - 187				09/03/20 11:02	09/04/20 17:53	1
M2-8:2 FTS	102		34 - 182				09/03/20 11:02	09/04/20 17:53	1
M2-6:2 FTS	104		29 - 189				09/03/20 11:02	09/04/20 17:53	1
13C5 PFHxA	96		31 - 142				09/03/20 11:02	09/04/20 17:53	1
13C4 PFHpA	93		30 - 144				09/03/20 11:02	09/04/20 17:53	1
13C8 PFOA	93		49 - 127				09/03/20 11:02	09/04/20 17:53	1
13C9 PFNA	97		47 - 136				09/03/20 11:02	09/04/20 17:53	1
13C6 PFDA	98		47 - 128				09/03/20 11:02	09/04/20 17:53	1
13C7 PFUnA	93		40 - 135				09/03/20 11:02	09/04/20 17:53	1
13C2-PFDoDA	90		28 - 136				09/03/20 11:02	09/04/20 17:53	1
13C2 PFTeDA	89		10 - 144				09/03/20 11:02	09/04/20 17:53	1

Client Sample Results

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Client Sample ID: 1-Field Blank

Lab Sample ID: 410-12790-1

Date Collected: 09/01/20 11:00

Matrix: Water

Date Received: 09/02/20 18:15

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	90		19 - 178	09/03/20 11:02	09/04/20 17:53	1
13C3 PFHxS	91		32 - 145	09/03/20 11:02	09/04/20 17:53	1
13C8 PFOS	94		49 - 126	09/03/20 11:02	09/04/20 17:53	1
d3-NMeFOSAA	89		32 - 151	09/03/20 11:02	09/04/20 17:53	1
d5-NEtFOSAA	92		37 - 164	09/03/20 11:02	09/04/20 17:53	1
13C8 FOSA	78		10 - 143	09/03/20 11:02	09/04/20 17:53	1
13C4 PFBA	92		41 - 132	09/03/20 11:02	09/04/20 17:53	1
13C5 PFPeA	97		33 - 155	09/03/20 11:02	09/04/20 17:53	1
d7-N-MeFOSE-M	67		10 - 143	09/03/20 11:02	09/04/20 17:53	1
d3-NMePFOSA	45		10 - 107	09/03/20 11:02	09/04/20 17:53	1
d9-N-EtFOSE-M	64		10 - 142	09/03/20 11:02	09/04/20 17:53	1
d5-NEtPFOSA	44		10 - 108	09/03/20 11:02	09/04/20 17:53	1
13C3 HFPO-DA	73		20 - 153	09/03/20 11:02	09/04/20 17:53	1

Client Sample ID: 2-Anvil 10x10

Lab Sample ID: 410-12790-2

Date Collected: 09/01/20 11:00

Matrix: Water

Date Received: 09/02/20 18:15

Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		1000	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
Perfluoroheptanoic acid	ND		1000	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
Perfluorooctanoic acid	ND		1000	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
Perfluorononanoic acid	ND		1000	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
Perfluorodecanoic acid	ND		1000	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
Perfluorotridecanoic acid	ND		1000	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
Perfluorotetradecanoic acid	ND		1000	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
Perfluorobutanesulfonic acid	ND		1000	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
Perfluorohexanesulfonic acid	ND		1000	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
Perfluorooctanesulfonic acid	ND		1000	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
NEtFOSAA	ND		1500	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
NMeFOSAA	ND		1000	300	ng/L		09/03/20 10:16	09/08/20 22:17	1
10:2 FTS	ND		2500	500	ng/L		09/03/20 10:16	09/08/20 22:17	1
Perfluoropentanesulfonic acid	ND		1000	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
Perfluoroheptanesulfonic acid	ND		1000	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
Perfluorononanesulfonic acid	ND		1000	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
Perfluorodecanesulfonic acid	ND		1000	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1500	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
Perfluorooctanesulfonamide	ND		1000	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
Perfluorohexadecanoic acid	ND		1500	500	ng/L		09/03/20 10:16	09/08/20 22:17	1
Perfluorooctadecanoic acid	ND		1500	500	ng/L		09/03/20 10:16	09/08/20 22:17	1
Perfluorobutanoic acid	ND		2500	1000	ng/L		09/03/20 10:16	09/08/20 22:17	1
Perfluoropentanoic acid	ND		1000	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
NMeFOSE	ND		1500	500	ng/L		09/03/20 10:16	09/08/20 22:17	1
NMeFOSA	ND		1500	500	ng/L		09/03/20 10:16	09/08/20 22:17	1
NEtFOSE	ND	* *1	1500	500	ng/L		09/03/20 10:16	09/08/20 22:17	1
NEtFOSA	ND		2500	500	ng/L		09/03/20 10:16	09/08/20 22:17	1
HFPODA	ND		1500	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
DONA	ND		1000	250	ng/L		09/03/20 10:16	09/08/20 22:17	1

Client Sample Results

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Client Sample ID: 2-Anvil 10x10

Lab Sample ID: 410-12790-2

Date Collected: 09/01/20 11:00

Matrix: Water

Date Received: 09/02/20 18:15

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9CI-PF3ONS	ND		1000	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
11CI-PF3OUdS	ND		1000	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
Perfluorododecanoic acid	ND		1000	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
4:2 Fluorotelomer sulfonic acid	ND		1000	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
Perfluoroundecanoic acid	ND		1000	250	ng/L		09/03/20 10:16	09/08/20 22:17	1
6:2 Fluorotelomer sulfonic acid	ND		2500	1000	ng/L		09/03/20 10:16	09/08/20 22:17	1
8:2 Fluorotelomer sulfonic acid	ND		1500	500	ng/L		09/03/20 10:16	09/08/20 22:17	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	110		20 - 187				09/03/20 10:16	09/08/20 22:17	1
M2-8:2 FTS	249	*5	34 - 182				09/03/20 10:16	09/08/20 22:17	1
M2-6:2 FTS	156		29 - 189				09/03/20 10:16	09/08/20 22:17	1
13C5 PFHxA	92		31 - 142				09/03/20 10:16	09/08/20 22:17	1
13C4 PFHpA	104		30 - 144				09/03/20 10:16	09/08/20 22:17	1
13C8 PFOA	99		49 - 127				09/03/20 10:16	09/08/20 22:17	1
13C9 PFNA	134		47 - 136				09/03/20 10:16	09/08/20 22:17	1
13C6 PFDA	102		47 - 128				09/03/20 10:16	09/08/20 22:17	1
13C7 PFUnA	94		40 - 135				09/03/20 10:16	09/08/20 22:17	1
13C2-PFDoDA	28		28 - 136				09/03/20 10:16	09/08/20 22:17	1
13C2 PFTeDA	81		10 - 144				09/03/20 10:16	09/08/20 22:17	1
13C3 PFBS	58		19 - 178				09/03/20 10:16	09/08/20 22:17	1
13C3 PFHxS	63		32 - 145				09/03/20 10:16	09/08/20 22:17	1
13C8 PFOS	77		49 - 126				09/03/20 10:16	09/08/20 22:17	1
d3-NMeFOSAA	162	*5	32 - 151				09/03/20 10:16	09/08/20 22:17	1
d5-NEtFOSAA	167	*5	37 - 164				09/03/20 10:16	09/08/20 22:17	1
13C8 FOSA	81		10 - 143				09/03/20 10:16	09/08/20 22:17	1
13C4 PFBA	94		41 - 132				09/03/20 10:16	09/08/20 22:17	1
13C5 PFPeA	100		33 - 155				09/03/20 10:16	09/08/20 22:17	1
d7-N-MeFOSE-M	50		10 - 143				09/03/20 10:16	09/08/20 22:17	1
d3-NMePFOSA	73		10 - 107				09/03/20 10:16	09/08/20 22:17	1
d9-N-EtFOSE-M	179	*5	10 - 142				09/03/20 10:16	09/08/20 22:17	1
d5-NEtPFOSA	102		10 - 108				09/03/20 10:16	09/08/20 22:17	1
13C3 HFPO-DA	70		20 - 153				09/03/20 10:16	09/08/20 22:17	1

Default Detection Limits

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Method: 537 IDA - EPA 537 Isotope Dilution

Prep: 537 IDA

Analyte	RL	MDL	Units
10:2 FTS	5.0	1.0	ng/L
11Cl-PF3OUdS	2.0	0.50	ng/L
4:2 Fluorotelomer sulfonic acid	2.0	0.50	ng/L
6:2 Fluorotelomer sulfonic acid	5.0	2.0	ng/L
8:2 Fluorotelomer sulfonic acid	3.0	1.0	ng/L
9Cl-PF3ONS	2.0	0.50	ng/L
DONA	2.0	0.50	ng/L
HFPODA	3.0	0.50	ng/L
NEtFOSA	5.0	1.0	ng/L
NEtFOSAA	3.0	0.50	ng/L
NEtFOSE	3.0	1.0	ng/L
NMeFOSA	3.0	1.0	ng/L
NMeFOSAA	2.0	0.60	ng/L
NMeFOSE	3.0	1.0	ng/L
Perfluorobutanesulfonic acid	2.0	0.50	ng/L
Perfluorobutanoic acid	5.0	2.0	ng/L
Perfluorodecanesulfonic acid	2.0	0.50	ng/L
Perfluorodecanoic acid	2.0	0.50	ng/L
Perfluorododecanesulfonic acid (PFDoS)	3.0	0.50	ng/L
Perfluorododecanoic acid	2.0	0.50	ng/L
Perfluoroheptanesulfonic acid	2.0	0.50	ng/L
Perfluoroheptanoic acid	2.0	0.50	ng/L
Perfluorohexadecanoic acid	3.0	1.0	ng/L
Perfluorohexanesulfonic acid	2.0	0.50	ng/L
Perfluorohexanoic acid	2.0	0.50	ng/L
Perfluorononanesulfonic acid	2.0	0.50	ng/L
Perfluorononanoic acid	2.0	0.50	ng/L
Perfluorooctadecanoic acid	3.0	1.0	ng/L
Perfluorooctanesulfonamide	2.0	0.50	ng/L
Perfluorooctanesulfonic acid	2.0	0.50	ng/L
Perfluorooctanoic acid	2.0	0.50	ng/L
Perfluoropentanesulfonic acid	2.0	0.50	ng/L
Perfluoropentanoic acid	2.0	0.50	ng/L
Perfluorotetradecanoic acid	2.0	0.50	ng/L
Perfluorotridecanoic acid	2.0	0.50	ng/L
Perfluoroundecanoic acid	2.0	0.50	ng/L

Method: 537 IDA - EPA 537 Isotope Dilution

Prep: EPA 537 (Mod)

Analyte	RL	MDL	Units
10:2 FTS	5.0	1.0	ng/L
11Cl-PF3OUdS	2.0	0.50	ng/L
4:2 Fluorotelomer sulfonic acid	2.0	0.50	ng/L
6:2 Fluorotelomer sulfonic acid	5.0	2.0	ng/L
8:2 Fluorotelomer sulfonic acid	3.0	1.0	ng/L
9Cl-PF3ONS	2.0	0.50	ng/L
DONA	2.0	0.50	ng/L
HFPODA	3.0	0.50	ng/L
NEtFOSA	5.0	1.0	ng/L
NEtFOSAA	3.0	0.50	ng/L
NEtFOSE	3.0	1.0	ng/L

Default Detection Limits

Client: PEER

Job ID: 410-12790-1

Project/Site: Anvil 10-10 Tests

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Prep: EPA 537 (Mod)

Analyte	RL	MDL	Units
NMeFOSA	3.0	1.0	ng/L
NMeFOSAA	2.0	0.60	ng/L
NMeFOSE	3.0	1.0	ng/L
Perfluorobutanesulfonic acid	2.0	0.50	ng/L
Perfluorobutanoic acid	5.0	2.0	ng/L
Perfluorodecanesulfonic acid	2.0	0.50	ng/L
Perfluorodecanoic acid	2.0	0.50	ng/L
Perfluorododecanesulfonic acid (PFDoS)	3.0	0.50	ng/L
Perfluorododecanoic acid	2.0	0.50	ng/L
Perfluoroheptanesulfonic acid	2.0	0.50	ng/L
Perfluoroheptanoic acid	2.0	0.50	ng/L
Perfluorohexadecanoic acid	3.0	1.0	ng/L
Perfluorohexanesulfonic acid	2.0	0.50	ng/L
Perfluorohexanoic acid	2.0	0.50	ng/L
Perfluorononanesulfonic acid	2.0	0.50	ng/L
Perfluorononanoic acid	2.0	0.50	ng/L
Perfluorooctadecanoic acid	3.0	1.0	ng/L
Perfluorooctanesulfonamide	2.0	0.50	ng/L
Perfluorooctanesulfonic acid	2.0	0.50	ng/L
Perfluorooctanoic acid	2.0	0.50	ng/L
Perfluoropentanesulfonic acid	2.0	0.50	ng/L
Perfluoropentanoic acid	2.0	0.50	ng/L
Perfluorotetradecanoic acid	2.0	0.50	ng/L
Perfluorotridecanoic acid	2.0	0.50	ng/L
Perfluoroundecanoic acid	2.0	0.50	ng/L

Isotope Dilution Summary

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (20-187)	M282FTS (34-182)	M262FTS (29-189)	13C5PHA (31-142)	C4PFHA (30-144)	C8PFOA (49-127)	C9PFNA (47-136)	C6PFDA (47-128)
410-12790-1	1-Field Blank	102	102	104	96	93	93	97	98
410-12790-2	2-Anvil 10x10	110	249 *5	156	92	104	99	134	102
LCS 410-40650/2-B	Lab Control Sample	69	68	71	68	65	65	65	62
LCS 410-40676/2-A	Lab Control Sample	104	102	103	92	92	92	97	99
LCS 410-41621/2-B	Lab Control Sample	97	101	102	100	99	102	102	105
LCSD 410-40650/3-B	Lab Control Sample Dup	60	53	57	55	55	52	52	52
LCSD 410-40676/3-A	Lab Control Sample Dup	107	103	102	91	89	95	98	97
LCSD 410-41621/3-B	Lab Control Sample Dup	94	92	97	92	89	95	96	95
MB 410-40650/1-B	Method Blank	68	62	58	65	56	54	59	61
MB 410-40676/1-A	Method Blank	94	101	96	85	83	86	91	85
MB 410-41621/1-B	Method Blank	109	123	108	106	107	109	108	112

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (40-135)	PFDODA (28-136)	PFTDA (10-144)	C3PFBS (19-178)	C3PFHS (32-145)	C8PFOS (49-126)	d3NMFOS (32-151)	d5NEFOS (37-164)
410-12790-1	1-Field Blank	93	90	89	90	91	94	89	92
410-12790-2	2-Anvil 10x10	94	28	81	58	63	77	162 *5	167 *5
LCS 410-40650/2-B	Lab Control Sample	65	63	71	44	42	45 *5	59	60
LCS 410-40676/2-A	Lab Control Sample	97	95	94	92	90	90	90	98
LCS 410-41621/2-B	Lab Control Sample	109	112	100	100	96	104	104	108
LCSD 410-40650/3-B	Lab Control Sample Dup	55	57	64	42	38	40 *5	47	49
LCSD 410-40676/3-A	Lab Control Sample Dup	95	86	82	95	84	91	87	90
LCSD 410-41621/3-B	Lab Control Sample Dup	98	106	89	98	91	94	88	91
MB 410-40650/1-B	Method Blank	67	70	72	34	34	40 *5	56	58
MB 410-40676/1-A	Method Blank	87	85	77	91	83	86	81	86
MB 410-41621/1-B	Method Blank	111	116	102	105	108	105	101	106

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (10-143)	PFBA (41-132)	PFPeA (33-155)	NMFM (10-143)	d3NMFSA (10-107)	NEFM (10-142)	d5NPFSA (10-108)	HFPODA (20-153)
410-12790-1	1-Field Blank	78	92	97	67	45	64	44	73
410-12790-2	2-Anvil 10x10	81	94	100	50	73	179 *5	102	70
LCS 410-40650/2-B	Lab Control Sample	53	74	74	2 *5	2 *5	2 *5	1 *5	50
LCS 410-40676/2-A	Lab Control Sample	85	90	96	78	61	80	59	65
LCS 410-41621/2-B	Lab Control Sample	88	105	103	4 *5	5 *5	3 *5	3 *5	82
LCSD 410-40650/3-B	Lab Control Sample Dup	43	66	65	2 *5	2 *5	2 *5	0.7 *5	41
LCSD 410-40676/3-A	Lab Control Sample Dup	79	92	97	70	37	66	35	71
LCSD 410-41621/3-B	Lab Control Sample Dup	67	97	98	6 *5	11	5 *5	6 *5	87
MB 410-40650/1-B	Method Blank	36	75	75	0.5 *5	0.3 *5	0.7 *5	0.1 *5	50
MB 410-40676/1-A	Method Blank	77	87	92	73	58	75	59	63
MB 410-41621/1-B	Method Blank	92	108	111	2 *5	4 *5	2 *5	1 *5	80

Surrogate Legend

- M242FTS = M2-4:2 FTS
- M282FTS = M2-8:2 FTS
- M262FTS = M2-6:2 FTS
- 13C5PHA = 13C5 PFHxA
- C4PFHA = 13C4 PFHpA
- C8PFOA = 13C8 PFOA
- C9PFNA = 13C9 PFNA
- C6PFDA = 13C6 PFDA

Isotope Dilution Summary

Client: PEER

Job ID: 410-12790-1

Project/Site: Anvil 10-10 Tests

13C7PUA = 13C7 PFUnA
PFDoDA = 13C2-PFDoDA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
NMFm = d7-N-MeFOSE-M
d3NMFSA = d3-NMePFOSA
NEFM = d9-N-EtFOSE-M
d5NPFSA = d5-NEtPFOSA
HFPODA = 13C3 HFPO-DA

QC Sample Results

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Method: 537 IDA - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-40650/1-B
Matrix: Water
Analysis Batch: 41076

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40650

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		1000	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
Perfluoroheptanoic acid	ND		1000	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
Perfluorooctanoic acid	ND		1000	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
Perfluorononanoic acid	ND		1000	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
Perfluorodecanoic acid	ND		1000	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
Perfluorotridecanoic acid	ND		1000	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
Perfluorotetradecanoic acid	ND		1000	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
Perfluorobutanesulfonic acid	ND		1000	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
Perfluorohexanesulfonic acid	ND		1000	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
Perfluorooctanesulfonic acid	ND		1000	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
NEtFOSAA	ND		1500	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
NMeFOSAA	ND		1000	300	ng/L		09/03/20 10:16	09/04/20 13:28	1
10:2 FTS	ND		2500	500	ng/L		09/03/20 10:16	09/04/20 13:28	1
Perfluoropentanesulfonic acid	ND		1000	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
Perfluoroheptanesulfonic acid	ND		1000	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
Perfluorononanesulfonic acid	ND		1000	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
Perfluorodecanesulfonic acid	ND		1000	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1500	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
Perfluorooctanesulfonamide	ND		1000	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
Perfluorohexadecanoic acid	ND		1500	500	ng/L		09/03/20 10:16	09/04/20 13:28	1
Perfluorooctadecanoic acid	ND		1500	500	ng/L		09/03/20 10:16	09/04/20 13:28	1
Perfluorobutanoic acid	ND		2500	1000	ng/L		09/03/20 10:16	09/04/20 13:28	1
Perfluoropentanoic acid	ND		1000	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
NMeFOSE	ND		1500	500	ng/L		09/03/20 10:16	09/04/20 13:28	1
NMeFOSA	ND		1500	500	ng/L		09/03/20 10:16	09/04/20 13:28	1
NEtFOSE	ND		1500	500	ng/L		09/03/20 10:16	09/04/20 13:28	1
NEtFOSA	ND		2500	500	ng/L		09/03/20 10:16	09/04/20 13:28	1
HFPODA	ND		1500	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
DONA	ND		1000	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
9Cl-PF3ONS	ND		1000	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
11Cl-PF3OUdS	ND		1000	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
Perfluorododecanoic acid	ND		1000	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
4:2 Fluorotelomer sulfonic acid	ND		1000	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
Perfluoroundecanoic acid	ND		1000	250	ng/L		09/03/20 10:16	09/04/20 13:28	1
6:2 Fluorotelomer sulfonic acid	ND		2500	1000	ng/L		09/03/20 10:16	09/04/20 13:28	1
8:2 Fluorotelomer sulfonic acid	ND		1500	500	ng/L		09/03/20 10:16	09/04/20 13:28	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	68		20 - 187	09/03/20 10:16	09/04/20 13:28	1
M2-8:2 FTS	62		34 - 182	09/03/20 10:16	09/04/20 13:28	1
M2-6:2 FTS	58		29 - 189	09/03/20 10:16	09/04/20 13:28	1
13C5 PFHxA	65		31 - 142	09/03/20 10:16	09/04/20 13:28	1
13C4 PFHpA	56		30 - 144	09/03/20 10:16	09/04/20 13:28	1
13C8 PFOA	54		49 - 127	09/03/20 10:16	09/04/20 13:28	1
13C9 PFNA	59		47 - 136	09/03/20 10:16	09/04/20 13:28	1
13C6 PFDA	61		47 - 128	09/03/20 10:16	09/04/20 13:28	1
13C7 PFUnA	67		40 - 135	09/03/20 10:16	09/04/20 13:28	1
13C2-PFDoDA	70		28 - 136	09/03/20 10:16	09/04/20 13:28	1

QC Sample Results

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-40650/1-B
Matrix: Water
Analysis Batch: 41076

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40650

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFTeDA	72		10 - 144	09/03/20 10:16	09/04/20 13:28	1
13C3 PFBS	34		19 - 178	09/03/20 10:16	09/04/20 13:28	1
13C3 PFHxS	34		32 - 145	09/03/20 10:16	09/04/20 13:28	1
13C8 PFOS	40	*5	49 - 126	09/03/20 10:16	09/04/20 13:28	1
d3-NMeFOSAA	56		32 - 151	09/03/20 10:16	09/04/20 13:28	1
d5-NEtFOSAA	58		37 - 164	09/03/20 10:16	09/04/20 13:28	1
13C8 FOSA	36		10 - 143	09/03/20 10:16	09/04/20 13:28	1
13C4 PFBA	75		41 - 132	09/03/20 10:16	09/04/20 13:28	1
13C5 PFPeA	75		33 - 155	09/03/20 10:16	09/04/20 13:28	1
d7-N-MeFOSE-M	0.5	*5	10 - 143	09/03/20 10:16	09/04/20 13:28	1
d3-NMePFOSA	0.3	*5	10 - 107	09/03/20 10:16	09/04/20 13:28	1
d9-N-EtFOSE-M	0.7	*5	10 - 142	09/03/20 10:16	09/04/20 13:28	1
d5-NEtPFOSA	0.1	*5	10 - 108	09/03/20 10:16	09/04/20 13:28	1
13C3 HFPO-DA	50		20 - 153	09/03/20 10:16	09/04/20 13:28	1

Lab Sample ID: LCS 410-40650/2-B
Matrix: Water
Analysis Batch: 41076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40650

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroheptanoic acid	6400	6580		ng/L		103	66 - 141
Perfluorooctanoic acid	6400	6060		ng/L		95	65 - 136
Perfluorononanoic acid	6400	5870		ng/L		92	65 - 140
Perfluorodecanoic acid	6400	6060		ng/L		95	63 - 137
Perfluorotridecanoic acid	6400	7260		ng/L		114	58 - 146
Perfluorotetradecanoic acid	6400	6530		ng/L		102	64 - 141
Perfluorobutanesulfonic acid	5660	5070		ng/L		90	65 - 132
Perfluorohexanesulfonic acid	6050	5150		ng/L		85	60 - 128
Perfluorooctanesulfonic acid	6120	4820		ng/L		79	51 - 126
NEtFOSAA	6400	6890		ng/L		108	54 - 134
NMeFOSAA	6400	7230		ng/L		113	58 - 143
10:2 FTS	6170	6050		ng/L		98	44 - 141
Perfluoropentanesulfonic acid	6000	6110		ng/L		102	71 - 136
Perfluoroheptanesulfonic acid	6090	6170		ng/L		101	67 - 135
Perfluorononanesulfonic acid	6140	6430		ng/L		105	67 - 137
Perfluorodecanesulfonic acid	6160	6040		ng/L		98	61 - 134
Perfluorododecanesulfonic acid (PFDoS)	6200	6760		ng/L		109	54 - 136
Perfluorooctanesulfonamide	6400	6340		ng/L		99	55 - 130
Perfluorohexadecanoic acid	6400	6290		ng/L		98	52 - 149
Perfluorooctadecanoic acid	6400	6200		ng/L		97	32 - 167
Perfluorobutanoic acid	6400	6600		ng/L		103	62 - 156
Perfluoropentanoic acid	6400	6110		ng/L		95	72 - 139
NMeFOSE	6400	5400		ng/L		84	52 - 131
NMeFOSA	6400	5630		ng/L		88	49 - 141
NEtFOSE	6400	8320	*	ng/L		130	49 - 128
NEtFOSA	6400	5540		ng/L		87	50 - 136
HFPODA	6400	6880		ng/L		108	37 - 147

QC Sample Results

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-40650/2-B

Matrix: Water

Analysis Batch: 41076

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 40650

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
DONA	6030	5870		ng/L		97	49 - 158	
9CI-PF3ONS	5960	5070		ng/L		85	52 - 135	
11CI-PF3OUdS	6030	5090		ng/L		84	45 - 134	
Perfluorododecanoic acid	6400	6770		ng/L		106	63 - 140	
4:2 Fluorotelomer sulfonic acid	5980	6310		ng/L		105	59 - 130	
Perfluoroundecanoic acid	6400	6150		ng/L		96	62 - 138	
6:2 Fluorotelomer sulfonic acid	6070	6280		ng/L		104	57 - 137	
8:2 Fluorotelomer sulfonic acid	6130	6570		ng/L		107	56 - 140	

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	69		20 - 187
M2-8:2 FTS	68		34 - 182
M2-6:2 FTS	71		29 - 189
13C5 PFHxA	68		31 - 142
13C4 PFHpA	65		30 - 144
13C8 PFOA	65		49 - 127
13C9 PFNA	65		47 - 136
13C6 PFDA	62		47 - 128
13C7 PFUnA	65		40 - 135
13C2-PFDoDA	63		28 - 136
13C2 PFTeDA	71		10 - 144
13C3 PFBS	44		19 - 178
13C3 PFHxS	42		32 - 145
13C8 PFOS	45	*5	49 - 126
d3-NMeFOSAA	59		32 - 151
d5-NEtFOSAA	60		37 - 164
13C8 FOSA	53		10 - 143
13C4 PFBA	74		41 - 132
13C5 PFPeA	74		33 - 155
d7-N-MeFOSE-M	2	*5	10 - 143
d3-NMePFOSA	2	*5	10 - 107
d9-N-EtFOSE-M	2	*5	10 - 142
d5-NEtPFOSA	1	*5	10 - 108
13C3 HFPO-DA	50		20 - 153

Lab Sample ID: LCSD 410-40650/3-B

Matrix: Water

Analysis Batch: 41076

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40650

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD Limit	
									RPD	Limit
Perfluorohexanoic acid	6400	6000		ng/L		94	66 - 137	3	30	
Perfluoroheptanoic acid	6400	6360		ng/L		99	66 - 141	3	30	
Perfluorooctanoic acid	6400	6060		ng/L		95	65 - 136	0	30	
Perfluorononanoic acid	6400	6320		ng/L		99	65 - 140	7	30	
Perfluorodecanoic acid	6400	6000		ng/L		94	63 - 137	1	30	
Perfluorotridecanoic acid	6400	7780		ng/L		122	58 - 146	7	30	
Perfluorotetradecanoic acid	6400	6820		ng/L		107	64 - 141	4	30	
Perfluorobutanesulfonic acid	5660	5260		ng/L		93	65 - 132	4	30	
Perfluorohexanesulfonic acid	6050	5240		ng/L		87	60 - 128	2	30	

QC Sample Results

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-40650/3-B
Matrix: Water
Analysis Batch: 41076

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40650

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD
							Limits	RPD	Limit
Perfluorooctanesulfonic acid	6120	5030		ng/L		82	51 - 126	4	30
NEtFOSAA	6400	7140		ng/L		112	54 - 134	4	30
NMeFOSAA	6400	7610		ng/L		119	58 - 143	5	30
10:2 FTS	6170	7230		ng/L		117	44 - 141	18	30
Perfluoropentanesulfonic acid	6000	5910		ng/L		98	71 - 136	3	30
Perfluoroheptanesulfonic acid	6090	6050		ng/L		99	67 - 135	2	30
Perfluorononanesulfonic acid	6140	6510		ng/L		106	67 - 137	1	30
Perfluorodecanesulfonic acid	6160	6420		ng/L		104	61 - 134	6	30
Perfluorododecanesulfonic acid (PFDoS)	6200	8140		ng/L		131	54 - 136	19	30
Perfluorooctanesulfonamide	6400	6460		ng/L		101	55 - 130	2	30
Perfluorohexadecanoic acid	6400	7170		ng/L		112	52 - 149	13	30
Perfluorooctadecanoic acid	6400	7030		ng/L		110	32 - 167	12	30
Perfluorobutanoic acid	6400	6720		ng/L		105	62 - 156	2	30
Perfluoropentanoic acid	6400	6060		ng/L		95	72 - 139	1	30
NMeFOSE	6400	6160		ng/L		96	52 - 131	13	30
NMeFOSA	6400	5050		ng/L		79	49 - 141	11	30
NEtFOSE	6400	5570	*1	ng/L		87	49 - 128	40	30
NEtFOSA	6400	6150		ng/L		96	50 - 136	10	30
HFPODA	6400	7230		ng/L		113	37 - 147	5	30
DONA	6030	5710		ng/L		95	49 - 158	3	30
9CI-PF3ONS	5960	5020		ng/L		84	52 - 135	1	30
11CI-PF3OUdS	6030	5450		ng/L		90	45 - 134	7	30
Perfluorododecanoic acid	6400	6830		ng/L		107	63 - 140	1	30
4:2 Fluorotelomer sulfonic acid	5980	6390		ng/L		107	59 - 130	1	30
Perfluoroundecanoic acid	6400	6140		ng/L		96	62 - 138	0	30
6:2 Fluorotelomer sulfonic acid	6070	6220		ng/L		103	57 - 137	1	30
8:2 Fluorotelomer sulfonic acid	6130	6860		ng/L		112	56 - 140	4	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	60		20 - 187
M2-8:2 FTS	53		34 - 182
M2-6:2 FTS	57		29 - 189
13C5 PFHxA	55		31 - 142
13C4 PFHpA	55		30 - 144
13C8 PFOA	52		49 - 127
13C9 PFNA	52		47 - 136
13C6 PFDA	52		47 - 128
13C7 PFUnA	55		40 - 135
13C2-PFDoDA	57		28 - 136
13C2 PFTeDA	64		10 - 144
13C3 PFBS	42		19 - 178
13C3 PFHxS	38		32 - 145
13C8 PFOS	40	*5	49 - 126
d3-NMeFOSAA	47		32 - 151
d5-NEtFOSAA	49		37 - 164
13C8 FOSA	43		10 - 143
13C4 PFBA	66		41 - 132
13C5 PFPeA	65		33 - 155

QC Sample Results

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-40650/3-B

Matrix: Water

Analysis Batch: 41076

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40650

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
d7-N-MeFOSE-M	2	*5	10 - 143
d3-NMePFOSA	2	*5	10 - 107
d9-N-EtFOSE-M	2	*5	10 - 142
d5-NEtPFOSA	0.7	*5	10 - 108
13C3 HFPO-DA	41		20 - 153

Lab Sample ID: MB 410-40676/1-A

Matrix: Water

Analysis Batch: 41076

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 40676

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanoic acid	ND		2.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
Perfluoroheptanoic acid	ND		2.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
Perfluorooctanoic acid	ND		2.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
Perfluorononanoic acid	ND		2.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
Perfluorodecanoic acid	ND		2.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
Perfluorotridecanoic acid	ND		2.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
Perfluorotetradecanoic acid	ND		2.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
Perfluorobutanesulfonic acid	ND		2.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
Perfluorohexanesulfonic acid	ND		2.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
Perfluorooctanesulfonic acid	ND		2.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
NEtFOSAA	ND		3.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
NMeFOSAA	ND		2.0	0.60	ng/L		09/03/20 11:02	09/04/20 14:17	1
10:2 FTS	ND		5.0	1.0	ng/L		09/03/20 11:02	09/04/20 14:17	1
Perfluoropentanesulfonic acid	ND		2.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
Perfluoroheptanesulfonic acid	ND		2.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
Perfluorononanesulfonic acid	ND		2.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
Perfluorodecanesulfonic acid	ND		2.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
Perfluorododecanesulfonic acid (PFDoS)	ND		3.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
Perfluorooctanesulfonamide	ND		2.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
Perfluorohexadecanoic acid	ND		3.0	1.0	ng/L		09/03/20 11:02	09/04/20 14:17	1
Perfluorooctadecanoic acid	ND		3.0	1.0	ng/L		09/03/20 11:02	09/04/20 14:17	1
Perfluorobutanoic acid	ND		5.0	2.0	ng/L		09/03/20 11:02	09/04/20 14:17	1
Perfluoropentanoic acid	ND		2.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
NMeFOSE	ND		3.0	1.0	ng/L		09/03/20 11:02	09/04/20 14:17	1
NMeFOSA	ND		3.0	1.0	ng/L		09/03/20 11:02	09/04/20 14:17	1
NEtFOSE	ND		3.0	1.0	ng/L		09/03/20 11:02	09/04/20 14:17	1
NEtFOSA	ND		5.0	1.0	ng/L		09/03/20 11:02	09/04/20 14:17	1
HFPODA	ND		3.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
DONA	ND		2.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
9Cl-PF3ONS	ND		2.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
11Cl-PF3OUdS	ND		2.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
Perfluorododecanoic acid	ND		2.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
4:2 Fluorotelomer sulfonic acid	ND		2.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
Perfluoroundecanoic acid	ND		2.0	0.50	ng/L		09/03/20 11:02	09/04/20 14:17	1
6:2 Fluorotelomer sulfonic acid	ND		5.0	2.0	ng/L		09/03/20 11:02	09/04/20 14:17	1
8:2 Fluorotelomer sulfonic acid	ND		3.0	1.0	ng/L		09/03/20 11:02	09/04/20 14:17	1

QC Sample Results

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
M2-4:2 FTS	94		20 - 187	09/03/20 11:02	09/04/20 14:17	1
M2-8:2 FTS	101		34 - 182	09/03/20 11:02	09/04/20 14:17	1
M2-6:2 FTS	96		29 - 189	09/03/20 11:02	09/04/20 14:17	1
13C5 PFHxA	85		31 - 142	09/03/20 11:02	09/04/20 14:17	1
13C4 PFHpA	83		30 - 144	09/03/20 11:02	09/04/20 14:17	1
13C8 PFOA	86		49 - 127	09/03/20 11:02	09/04/20 14:17	1
13C9 PFNA	91		47 - 136	09/03/20 11:02	09/04/20 14:17	1
13C6 PFDA	85		47 - 128	09/03/20 11:02	09/04/20 14:17	1
13C7 PFUnA	87		40 - 135	09/03/20 11:02	09/04/20 14:17	1
13C2-PFDoDA	85		28 - 136	09/03/20 11:02	09/04/20 14:17	1
13C2 PFTeDA	77		10 - 144	09/03/20 11:02	09/04/20 14:17	1
13C3 PFBS	91		19 - 178	09/03/20 11:02	09/04/20 14:17	1
13C3 PFHxS	83		32 - 145	09/03/20 11:02	09/04/20 14:17	1
13C8 PFOS	86		49 - 126	09/03/20 11:02	09/04/20 14:17	1
d3-NMeFOSAA	81		32 - 151	09/03/20 11:02	09/04/20 14:17	1
d5-NEtFOSAA	86		37 - 164	09/03/20 11:02	09/04/20 14:17	1
13C8 FOSA	77		10 - 143	09/03/20 11:02	09/04/20 14:17	1
13C4 PFBA	87		41 - 132	09/03/20 11:02	09/04/20 14:17	1
13C5 PFPeA	92		33 - 155	09/03/20 11:02	09/04/20 14:17	1
d7-N-MeFOSE-M	73		10 - 143	09/03/20 11:02	09/04/20 14:17	1
d3-NMePFOSA	58		10 - 107	09/03/20 11:02	09/04/20 14:17	1
d9-N-EtFOSE-M	75		10 - 142	09/03/20 11:02	09/04/20 14:17	1
d5-NEtPFOSA	59		10 - 108	09/03/20 11:02	09/04/20 14:17	1
13C3 HFPO-DA	63		20 - 153	09/03/20 11:02	09/04/20 14:17	1

Lab Sample ID: LCS 410-40676/2-A
Matrix: Water
Analysis Batch: 41076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40676

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Perfluorohexanoic acid	25.6	22.8		ng/L		89	66 - 137
Perfluoroheptanoic acid	25.6	26.1		ng/L		102	66 - 141
Perfluorooctanoic acid	25.6	24.3		ng/L		95	65 - 136
Perfluorononanoic acid	25.6	24.0		ng/L		94	65 - 140
Perfluorodecanoic acid	25.6	23.7		ng/L		92	63 - 137
Perfluorotridecanoic acid	25.6	26.3		ng/L		103	58 - 146
Perfluorotetradecanoic acid	25.6	26.5		ng/L		104	64 - 141
Perfluorobutanesulfonic acid	22.6	21.7		ng/L		96	65 - 132
Perfluorohexanesulfonic acid	24.2	21.1		ng/L		87	60 - 128
Perfluorooctanesulfonic acid	24.5	20.5		ng/L		84	51 - 126
NEtFOSAA	25.6	27.4		ng/L		107	54 - 134
NMeFOSAA	25.6	30.6		ng/L		120	58 - 143
10:2 FTS	24.7	26.5		ng/L		107	44 - 141
Perfluoropentanesulfonic acid	24.0	23.2		ng/L		97	71 - 136
Perfluoroheptanesulfonic acid	24.4	24.5		ng/L		101	67 - 135
Perfluorononanesulfonic acid	24.6	25.9		ng/L		105	67 - 137
Perfluorodecanesulfonic acid	24.7	24.5		ng/L		99	61 - 134
Perfluorododecanesulfonic acid (PFDoS)	24.8	22.9		ng/L		92	54 - 136
Perfluorooctanesulfonamide	25.6	26.2		ng/L		102	55 - 130
Perfluorohexadecanoic acid	25.6	25.3		ng/L		99	52 - 149
Perfluorooctadecanoic acid	25.6	26.1		ng/L		102	32 - 167

QC Sample Results

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-40676/2-A
Matrix: Water
Analysis Batch: 41076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40676

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
							Lower	Upper
Perfluorobutanoic acid	25.6	25.2		ng/L		99	62	156
Perfluoropentanoic acid	25.6	23.6		ng/L		92	72	139
NMeFOSE	25.6	25.8		ng/L		101	52	131
NMeFOSA	25.6	26.4		ng/L		103	49	141
NEtFOSE	25.6	25.3		ng/L		99	49	128
NEtFOSA	25.6	24.4		ng/L		95	50	136
HFPODA	25.6	28.8		ng/L		113	37	147
DONA	24.1	22.8		ng/L		95	49	158
9Cl-PF3ONS	23.9	21.9		ng/L		92	52	135
11Cl-PF3OUdS	24.1	22.3		ng/L		92	45	134
Perfluorododecanoic acid	25.6	26.0		ng/L		102	63	140
4:2 Fluorotelomer sulfonic acid	23.9	22.9		ng/L		96	59	130
Perfluoroundecanoic acid	25.6	25.5		ng/L		100	62	138
6:2 Fluorotelomer sulfonic acid	24.3	25.6		ng/L		105	57	137
8:2 Fluorotelomer sulfonic acid	24.5	26.9		ng/L		110	56	140

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	104		20 - 187
M2-8:2 FTS	102		34 - 182
M2-6:2 FTS	103		29 - 189
13C5 PFHxA	92		31 - 142
13C4 PFHpA	92		30 - 144
13C8 PFOA	92		49 - 127
13C9 PFNA	97		47 - 136
13C6 PFDA	99		47 - 128
13C7 PFUnA	97		40 - 135
13C2-PFDoDA	95		28 - 136
13C2 PFTeDA	94		10 - 144
13C3 PFBS	92		19 - 178
13C3 PFHxS	90		32 - 145
13C8 PFOS	90		49 - 126
d3-NMeFOSAA	90		32 - 151
d5-NEtFOSAA	98		37 - 164
13C8 FOSA	85		10 - 143
13C4 PFBA	90		41 - 132
13C5 PFPeA	96		33 - 155
d7-N-MeFOSE-M	78		10 - 143
d3-NMePFOSA	61		10 - 107
d9-N-EtFOSE-M	80		10 - 142
d5-NEtPFOSA	59		10 - 108
13C3 HFPO-DA	65		20 - 153

Lab Sample ID: LCSD 410-40676/3-A
Matrix: Water
Analysis Batch: 41076

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40676

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							Lower	Upper	RPD	Limit
Perfluorohexanoic acid	25.6	23.8		ng/L		93	66	137	4	30
Perfluoroheptanoic acid	25.6	26.2		ng/L		102	66	141	1	30

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QC Sample Results

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-40676/3-A
Matrix: Water
Analysis Batch: 41076

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40676

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanoic acid	25.6	24.3		ng/L		95	65 - 136	0	30
Perfluorononanoic acid	25.6	24.0		ng/L		94	65 - 140	0	30
Perfluorodecanoic acid	25.6	23.8		ng/L		93	63 - 137	1	30
Perfluorotridecanoic acid	25.6	27.0		ng/L		105	58 - 146	2	30
Perfluorotetradecanoic acid	25.6	26.5		ng/L		103	64 - 141	0	30
Perfluorobutanesulfonic acid	22.6	20.6		ng/L		91	65 - 132	5	30
Perfluorohexanesulfonic acid	24.2	21.8		ng/L		90	60 - 128	4	30
Perfluorooctanesulfonic acid	24.5	20.5		ng/L		84	51 - 126	0	30
NEtFOSAA	25.6	26.8		ng/L		105	54 - 134	2	30
NMeFOSAA	25.6	27.5		ng/L		107	58 - 143	11	30
10:2 FTS	24.7	22.9		ng/L		93	44 - 141	15	30
Perfluoropentanesulfonic acid	24.0	23.1		ng/L		96	71 - 136	0	30
Perfluoroheptanesulfonic acid	24.4	24.7		ng/L		101	67 - 135	1	30
Perfluorononanesulfonic acid	24.6	24.4		ng/L		99	67 - 137	6	30
Perfluorodecanesulfonic acid	24.7	22.6		ng/L		92	61 - 134	8	30
Perfluorododecanesulfonic acid (PFDoS)	24.8	21.0		ng/L		85	54 - 136	9	30
Perfluorooctanesulfonamide	25.6	26.6		ng/L		104	55 - 130	1	30
Perfluorohexadecanoic acid	25.6	24.6		ng/L		96	52 - 149	3	30
Perfluorooctadecanoic acid	25.6	25.0		ng/L		98	32 - 167	4	30
Perfluorobutanoic acid	25.6	26.2		ng/L		102	62 - 156	4	30
Perfluoropentanoic acid	25.6	24.6		ng/L		96	72 - 139	4	30
NMeFOSE	25.6	23.6		ng/L		92	52 - 131	9	30
NMeFOSA	25.6	25.9		ng/L		101	49 - 141	2	30
NEtFOSE	25.6	25.7		ng/L		100	49 - 128	2	30
NEtFOSA	25.6	24.3		ng/L		95	50 - 136	0	30
HFPODA	25.6	25.6		ng/L		100	37 - 147	12	30
DONA	24.1	23.2		ng/L		96	49 - 158	2	30
9Cl-PF3ONS	23.9	20.8		ng/L		87	52 - 135	5	30
11Cl-PF3OUdS	24.1	19.6		ng/L		81	45 - 134	13	30
Perfluorododecanoic acid	25.6	26.2		ng/L		103	63 - 140	1	30
4:2 Fluorotelomer sulfonic acid	23.9	23.6		ng/L		99	59 - 130	3	30
Perfluoroundecanoic acid	25.6	24.1		ng/L		94	62 - 138	6	30
6:2 Fluorotelomer sulfonic acid	24.3	25.2		ng/L		104	57 - 137	1	30
8:2 Fluorotelomer sulfonic acid	24.5	26.4		ng/L		108	56 - 140	2	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	107		20 - 187
M2-8:2 FTS	103		34 - 182
M2-6:2 FTS	102		29 - 189
13C5 PFHxA	91		31 - 142
13C4 PFHpA	89		30 - 144
13C8 PFOA	95		49 - 127
13C9 PFNA	98		47 - 136
13C6 PFDA	97		47 - 128
13C7 PFUnA	95		40 - 135
13C2-PFDoDA	86		28 - 136
13C2 PFTeDA	82		10 - 144
13C3 PFBS	95		19 - 178

QC Sample Results

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-40676/3-A

Matrix: Water

Analysis Batch: 41076

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 40676

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
13C3 PFHxS	84		32 - 145
13C8 PFOS	91		49 - 126
d3-NMeFOSAA	87		32 - 151
d5-NEtFOSAA	90		37 - 164
13C8 FOSA	79		10 - 143
13C4 PFBA	92		41 - 132
13C5 PFPeA	97		33 - 155
d7-N-MeFOSE-M	70		10 - 143
d3-NMePFOSA	37		10 - 107
d9-N-EtFOSE-M	66		10 - 142
d5-NEtPFOSA	35		10 - 108
13C3 HFPO-DA	71		20 - 153

Lab Sample ID: MB 410-41621/1-B

Matrix: Water

Analysis Batch: 42076

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41621

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanoic acid	ND		1000	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
Perfluoroheptanoic acid	ND		1000	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
Perfluorooctanoic acid	ND		1000	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
Perfluorononanoic acid	ND		1000	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
Perfluorodecanoic acid	ND		1000	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
Perfluorotridecanoic acid	ND		1000	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
Perfluorotetradecanoic acid	ND		1000	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
Perfluorobutanesulfonic acid	ND		1000	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
Perfluorohexanesulfonic acid	ND		1000	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
Perfluorooctanesulfonic acid	ND		1000	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
NEtFOSAA	ND		1500	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
NMeFOSAA	ND		1000	300	ng/L		09/08/20 10:16	09/09/20 17:29	1
10:2 FTS	ND		2500	500	ng/L		09/08/20 10:16	09/09/20 17:29	1
Perfluoropentanesulfonic acid	ND		1000	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
Perfluoroheptanesulfonic acid	ND		1000	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
Perfluorononanesulfonic acid	ND		1000	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
Perfluorodecanesulfonic acid	ND		1000	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1500	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
Perfluorooctanesulfonamide	ND		1000	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
Perfluorohexadecanoic acid	ND		1500	500	ng/L		09/08/20 10:16	09/09/20 17:29	1
Perfluorooctadecanoic acid	ND		1500	500	ng/L		09/08/20 10:16	09/09/20 17:29	1
Perfluorobutanoic acid	ND		2500	1000	ng/L		09/08/20 10:16	09/09/20 17:29	1
Perfluoropentanoic acid	ND		1000	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
NMeFOSE	ND		1500	500	ng/L		09/08/20 10:16	09/09/20 17:29	1
NMeFOSA	ND		1500	500	ng/L		09/08/20 10:16	09/09/20 17:29	1
NEtFOSE	830	J	1500	500	ng/L		09/08/20 10:16	09/09/20 17:29	1
NEtFOSA	ND		2500	500	ng/L		09/08/20 10:16	09/09/20 17:29	1
HFPODA	ND		1500	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
DONA	ND		1000	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
9CI-PF3ONS	ND		1000	250	ng/L		09/08/20 10:16	09/09/20 17:29	1

QC Sample Results

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-41621/1-B

Matrix: Water

Analysis Batch: 42076

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41621

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
11Cl-PF3OUdS	ND		1000	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
Perfluorododecanoic acid	ND		1000	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
4:2 Fluorotelomer sulfonic acid	ND		1000	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
Perfluoroundecanoic acid	ND		1000	250	ng/L		09/08/20 10:16	09/09/20 17:29	1
6:2 Fluorotelomer sulfonic acid	ND		2500	1000	ng/L		09/08/20 10:16	09/09/20 17:29	1
8:2 Fluorotelomer sulfonic acid	ND		1500	500	ng/L		09/08/20 10:16	09/09/20 17:29	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
M2-4:2 FTS	109		20 - 187	09/08/20 10:16	09/09/20 17:29	1
M2-8:2 FTS	123		34 - 182	09/08/20 10:16	09/09/20 17:29	1
M2-6:2 FTS	108		29 - 189	09/08/20 10:16	09/09/20 17:29	1
13C5 PFHxA	106		31 - 142	09/08/20 10:16	09/09/20 17:29	1
13C4 PFHpA	107		30 - 144	09/08/20 10:16	09/09/20 17:29	1
13C8 PFOA	109		49 - 127	09/08/20 10:16	09/09/20 17:29	1
13C9 PFNA	108		47 - 136	09/08/20 10:16	09/09/20 17:29	1
13C6 PFDA	112		47 - 128	09/08/20 10:16	09/09/20 17:29	1
13C7 PFUnA	111		40 - 135	09/08/20 10:16	09/09/20 17:29	1
13C2-PFDoDA	116		28 - 136	09/08/20 10:16	09/09/20 17:29	1
13C2 PFTeDA	102		10 - 144	09/08/20 10:16	09/09/20 17:29	1
13C3 PFBS	105		19 - 178	09/08/20 10:16	09/09/20 17:29	1
13C3 PFHxS	108		32 - 145	09/08/20 10:16	09/09/20 17:29	1
13C8 PFOS	105		49 - 126	09/08/20 10:16	09/09/20 17:29	1
d3-NMeFOSAA	101		32 - 151	09/08/20 10:16	09/09/20 17:29	1
d5-NEtFOSAA	106		37 - 164	09/08/20 10:16	09/09/20 17:29	1
13C8 FOSA	92		10 - 143	09/08/20 10:16	09/09/20 17:29	1
13C4 PFBA	108		41 - 132	09/08/20 10:16	09/09/20 17:29	1
13C5 PFPeA	111		33 - 155	09/08/20 10:16	09/09/20 17:29	1
d7-N-MeFOSE-M	2 *5		10 - 143	09/08/20 10:16	09/09/20 17:29	1
d3-NMePFOSA	4 *5		10 - 107	09/08/20 10:16	09/09/20 17:29	1
d9-N-EtFOSE-M	2 *5		10 - 142	09/08/20 10:16	09/09/20 17:29	1
d5-NEtPFOSA	1 *5		10 - 108	09/08/20 10:16	09/09/20 17:29	1
13C3 HFPO-DA	80		20 - 153	09/08/20 10:16	09/09/20 17:29	1

Lab Sample ID: LCS 410-41621/2-B

Matrix: Water

Analysis Batch: 42076

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41621

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Perfluorohexanoic acid	6400	5650		ng/L		88	66 - 137
Perfluoroheptanoic acid	6400	6030		ng/L		94	66 - 141
Perfluorooctanoic acid	6400	5400		ng/L		84	65 - 136
Perfluorononanoic acid	6400	5650		ng/L		88	65 - 140
Perfluorodecanoic acid	6400	5530		ng/L		86	63 - 137
Perfluorotridecanoic acid	6400	5880		ng/L		92	58 - 146
Perfluorotetradecanoic acid	6400	6110		ng/L		95	64 - 141
Perfluorobutanesulfonic acid	5660	5020		ng/L		89	65 - 132
Perfluorohexanesulfonic acid	6050	5120		ng/L		85	60 - 128
Perfluorooctanesulfonic acid	6120	4720		ng/L		77	51 - 126
NEtFOSAA	6400	6090		ng/L		95	54 - 134

QC Sample Results

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-41621/2-B
Matrix: Water
Analysis Batch: 42076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41621

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
NMeFOSAA	6400	6390		ng/L		100	58 - 143
10:2 FTS	6170	8300		ng/L		135	44 - 141
Perfluoropentanesulfonic acid	6000	5860		ng/L		98	71 - 136
Perfluoroheptanesulfonic acid	6090	5550		ng/L		91	67 - 135
Perfluorononanesulfonic acid	6140	5900		ng/L		96	67 - 137
Perfluorodecanesulfonic acid	6160	5700		ng/L		92	61 - 134
Perfluorododecanesulfonic acid (PFDoS)	6200	5510		ng/L		89	54 - 136
Perfluorooctanesulfonamide	6400	5790		ng/L		91	55 - 130
Perfluorohexadecanoic acid	6400	5640		ng/L		88	52 - 149
Perfluorooctadecanoic acid	6400	6220		ng/L		97	32 - 167
Perfluorobutanoic acid	6400	6380		ng/L		100	62 - 156
Perfluoropentanoic acid	6400	5680		ng/L		89	72 - 139
NMeFOSE	6400	4800		ng/L		75	52 - 131
NMeFOSA	6400	5560		ng/L		87	49 - 141
NEtFOSE	6400	6490		ng/L		101	49 - 128
NEtFOSA	6400	5560		ng/L		87	50 - 136
HFPODA	6400	6120		ng/L		96	37 - 147
DONA	6030	5130		ng/L		85	49 - 158
9CI-PF3ONS	5960	5130		ng/L		86	52 - 135
11CI-PF3OUdS	6030	5210		ng/L		86	45 - 134
Perfluorododecanoic acid	6400	6180		ng/L		96	63 - 140
4:2 Fluorotelomer sulfonic acid	5980	5980		ng/L		100	59 - 130
Perfluoroundecanoic acid	6400	6020		ng/L		94	62 - 138
6:2 Fluorotelomer sulfonic acid	6070	6010		ng/L		99	57 - 137
8:2 Fluorotelomer sulfonic acid	6130	6270		ng/L		102	56 - 140

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	97		20 - 187
M2-8:2 FTS	101		34 - 182
M2-6:2 FTS	102		29 - 189
13C5 PFHxA	100		31 - 142
13C4 PFHpA	99		30 - 144
13C8 PFOA	102		49 - 127
13C9 PFNA	102		47 - 136
13C6 PFDA	105		47 - 128
13C7 PFUnA	109		40 - 135
13C2-PFDoDA	112		28 - 136
13C2 PFTeDA	100		10 - 144
13C3 PFBS	100		19 - 178
13C3 PFHxS	96		32 - 145
13C8 PFOS	104		49 - 126
d3-NMeFOSAA	104		32 - 151
d5-NEtFOSAA	108		37 - 164
13C8 FOSA	88		10 - 143
13C4 PFBA	105		41 - 132
13C5 PFPeA	103		33 - 155
d7-N-MeFOSE-M	4	*5	10 - 143
d3-NMePFOSA	5	*5	10 - 107

QC Sample Results

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-41621/2-B
Matrix: Water
Analysis Batch: 42076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 41621

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
d9-N-EtFOSE-M	3	*5	10 - 142
d5-NEtPFOSA	3	*5	10 - 108
13C3 HFPO-DA	82		20 - 153

Lab Sample ID: LCSD 410-41621/3-B
Matrix: Water
Analysis Batch: 42076

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41621

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD	Limit	Limit
Perfluorohexanoic acid	6400	5720		ng/L		89	66 - 137	4	30	
Perfluoroheptanoic acid	6400	6150		ng/L		96	66 - 141	4	30	
Perfluorooctanoic acid	6400	5520		ng/L		86	65 - 136	1	30	
Perfluorononanoic acid	6400	5600		ng/L		88	65 - 140	1	30	
Perfluorodecanoic acid	6400	5660		ng/L		88	63 - 137	4	30	
Perfluorotridecanoic acid	6400	5350		ng/L		84	58 - 146	11	30	
Perfluorotetradecanoic acid	6400	6180		ng/L		97	64 - 141	3	30	
Perfluorobutanesulfonic acid	5660	5070		ng/L		89	65 - 132	1	30	
Perfluorohexanesulfonic acid	6050	5180		ng/L		86	60 - 128	2	30	
Perfluorooctanesulfonic acid	6120	4810		ng/L		79	51 - 126	2	30	
NEtFOSAA	6400	6220		ng/L		97	54 - 134	2	30	
NMeFOSAA	6400	6620		ng/L		103	58 - 143	2	30	
10:2 FTS	6170	9740	*	ng/L		158	44 - 141	23	30	
Perfluoropentanesulfonic acid	6000	5920		ng/L		99	71 - 136	4	30	
Perfluoroheptanesulfonic acid	6090	5590		ng/L		92	67 - 135	2	30	
Perfluorononanesulfonic acid	6140	6320		ng/L		103	67 - 137	6	30	
Perfluorodecanesulfonic acid	6160	5610		ng/L		91	61 - 134	3	30	
Perfluorododecanesulfonic acid (PFDoS)	6200	5620		ng/L		91	54 - 136	3	30	
Perfluorooctanesulfonamide	6400	6060		ng/L		95	55 - 130	5	30	
Perfluorohexadecanoic acid	6400	5790		ng/L		90	52 - 149	5	30	
Perfluorooctadecanoic acid	6400	6460		ng/L		101	32 - 167	15	30	
Perfluorobutanoic acid	6400	6430		ng/L		101	62 - 156	1	30	
Perfluoropentanoic acid	6400	6070		ng/L		95	72 - 139	5	30	
NMeFOSE	6400	5780		ng/L		90	52 - 131	2	30	
NMeFOSA	6400	6010		ng/L		94	49 - 141	9	30	
NEtFOSE	6400	3940	*1	ng/L		62	49 - 128	59	30	
NEtFOSA	6400	6220		ng/L		97	50 - 136	6	30	
HFPODA	6400	5340		ng/L		83	37 - 147	13	30	
DONA	6030	5400		ng/L		90	49 - 158	2	30	
9Cl-PF3ONS	5960	5080		ng/L		85	52 - 135	5	30	
11Cl-PF3OUdS	6030	5260		ng/L		87	45 - 134	3	30	
Perfluorododecanoic acid	6400	6120		ng/L		96	63 - 140	3	30	
4:2 Fluorotelomer sulfonic acid	5980	5770		ng/L		97	59 - 130	4	30	
Perfluoroundecanoic acid	6400	5560		ng/L		87	62 - 138	8	30	
6:2 Fluorotelomer sulfonic acid	6070	5880		ng/L		97	57 - 137	1	30	
8:2 Fluorotelomer sulfonic acid	6130	6150		ng/L		100	56 - 140	2	30	

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	94		20 - 187

QC Sample Results

Client: PEER
 Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCSD 410-41621/3-B
Matrix: Water
Analysis Batch: 42076

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 41621

<i>Isotope Dilution</i>	<i>LCSD LCSD</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
M2-8:2 FTS	92		34 - 182
M2-6:2 FTS	97		29 - 189
13C5 PFHxA	92		31 - 142
13C4 PFHpA	89		30 - 144
13C8 PFOA	95		49 - 127
13C9 PFNA	96		47 - 136
13C6 PFDA	95		47 - 128
13C7 PFUnA	98		40 - 135
13C2-PFDoDA	106		28 - 136
13C2 PFTeDA	89		10 - 144
13C3 PFBS	98		19 - 178
13C3 PFHxS	91		32 - 145
13C8 PFOS	94		49 - 126
d3-NMeFOSAA	88		32 - 151
d5-NEtFOSAA	91		37 - 164
13C8 FOSA	67		10 - 143
13C4 PFBA	97		41 - 132
13C5 PFPeA	98		33 - 155
d7-N-MeFOSE-M	6	*5	10 - 143
d3-NMePFOSA	11		10 - 107
d9-N-EtFOSE-M	5	*5	10 - 142
d5-NEtPFOSA	6	*5	10 - 108
13C3 HFPO-DA	87		20 - 153

QC Association Summary

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

LCMS

Prep Batch: 40650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12790-2	2-Anvil 10x10	Total/NA	Water	EPA 537 (Mod)	
MB 410-40650/1-B	Method Blank	Total/NA	Water	EPA 537 (Mod)	
LCS 410-40650/2-B	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	
LCSD 410-40650/3-B	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	

Cleanup Batch: 40652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12790-2	2-Anvil 10x10	Total/NA	Water	Extract Aliquot	40650
MB 410-40650/1-B	Method Blank	Total/NA	Water	Extract Aliquot	40650
LCS 410-40650/2-B	Lab Control Sample	Total/NA	Water	Extract Aliquot	40650
LCSD 410-40650/3-B	Lab Control Sample Dup	Total/NA	Water	Extract Aliquot	40650

Prep Batch: 40676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12790-1	1-Field Blank	Total/NA	Water	537 IDA	
MB 410-40676/1-A	Method Blank	Total/NA	Water	537 IDA	
LCS 410-40676/2-A	Lab Control Sample	Total/NA	Water	537 IDA	
LCSD 410-40676/3-A	Lab Control Sample Dup	Total/NA	Water	537 IDA	

Analysis Batch: 41076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12790-1	1-Field Blank	Total/NA	Water	537 IDA	40676
MB 410-40650/1-B	Method Blank	Total/NA	Water	537 IDA	40652
MB 410-40676/1-A	Method Blank	Total/NA	Water	537 IDA	40676
LCS 410-40650/2-B	Lab Control Sample	Total/NA	Water	537 IDA	40652
LCS 410-40676/2-A	Lab Control Sample	Total/NA	Water	537 IDA	40676
LCSD 410-40650/3-B	Lab Control Sample Dup	Total/NA	Water	537 IDA	40652
LCSD 410-40676/3-A	Lab Control Sample Dup	Total/NA	Water	537 IDA	40676

Prep Batch: 41621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12790-2 - RE	2-Anvil 10x10	Total/NA	Water	EPA 537 (Mod)	
MB 410-41621/1-B	Method Blank	Total/NA	Water	EPA 537 (Mod)	
LCS 410-41621/2-B	Lab Control Sample	Total/NA	Water	EPA 537 (Mod)	
LCSD 410-41621/3-B	Lab Control Sample Dup	Total/NA	Water	EPA 537 (Mod)	

Cleanup Batch: 41644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12790-2 - RE	2-Anvil 10x10	Total/NA	Water	Extract Aliquot	41621
MB 410-41621/1-B	Method Blank	Total/NA	Water	Extract Aliquot	41621
LCS 410-41621/2-B	Lab Control Sample	Total/NA	Water	Extract Aliquot	41621
LCSD 410-41621/3-B	Lab Control Sample Dup	Total/NA	Water	Extract Aliquot	41621

Analysis Batch: 41807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12790-2	2-Anvil 10x10	Total/NA	Water	537 IDA	40652

Analysis Batch: 42076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12790-2 - RE	2-Anvil 10x10	Total/NA	Water	537 IDA	41644
MB 410-41621/1-B	Method Blank	Total/NA	Water	537 IDA	41644

QC Association Summary

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

LCMS (Continued)

Analysis Batch: 42076 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-41621/2-B	Lab Control Sample	Total/NA	Water	537 IDA	41644
LCSD 410-41621/3-B	Lab Control Sample Dup	Total/NA	Water	537 IDA	41644

Lab Chronicle

Client: PEER
 Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Client Sample ID: 1-Field Blank

Lab Sample ID: 410-12790-1

Date Collected: 09/01/20 11:00

Matrix: Water

Date Received: 09/02/20 18:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 IDA			40676	09/03/20 11:02	NF	ELLE
Total/NA	Analysis	537 IDA		1	41076	09/04/20 17:53	GY5J	ELLE

Client Sample ID: 2-Anvil 10x10

Lab Sample ID: 410-12790-2

Date Collected: 09/01/20 11:00

Matrix: Water

Date Received: 09/02/20 18:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 (Mod)			40650	09/03/20 10:16	Q5YX	ELLE
Total/NA	Cleanup	Extract Aliquot			40652	09/03/20 10:22	Q5YX	ELLE
Total/NA	Analysis	537 IDA		1	41807	09/08/20 22:17	OLN7	ELLE
Total/NA	Prep	EPA 537 (Mod)	RE		41621	09/08/20 10:16	Q5YX	ELLE
Total/NA	Cleanup	Extract Aliquot	RE		41644	09/08/20 11:07	S7AC	ELLE
Total/NA	Analysis	537 IDA	RE	1	42076	09/09/20 17:49	UUV6	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Maryland	State	100	09-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537 IDA	537 IDA	Water	10:2 FTS
537 IDA	537 IDA	Water	11CI-PF3OUdS
537 IDA	537 IDA	Water	4:2 Fluorotelomer sulfonic acid
537 IDA	537 IDA	Water	6:2 Fluorotelomer sulfonic acid
537 IDA	537 IDA	Water	8:2 Fluorotelomer sulfonic acid
537 IDA	537 IDA	Water	9CI-PF3ONS
537 IDA	537 IDA	Water	DONA
537 IDA	537 IDA	Water	HFPODA
537 IDA	537 IDA	Water	NEtFOSA
537 IDA	537 IDA	Water	NEtFOSAA
537 IDA	537 IDA	Water	NEtFOSE
537 IDA	537 IDA	Water	NMeFOSA
537 IDA	537 IDA	Water	NMeFOSAA
537 IDA	537 IDA	Water	NMeFOSE
537 IDA	537 IDA	Water	Perfluorobutanesulfonic acid
537 IDA	537 IDA	Water	Perfluorobutanoic acid
537 IDA	537 IDA	Water	Perfluorodecanesulfonic acid
537 IDA	537 IDA	Water	Perfluorodecanoic acid
537 IDA	537 IDA	Water	Perfluorododecanesulfonic acid (PFDoS)
537 IDA	537 IDA	Water	Perfluorododecanoic acid
537 IDA	537 IDA	Water	Perfluoroheptanesulfonic acid
537 IDA	537 IDA	Water	Perfluoroheptanoic acid
537 IDA	537 IDA	Water	Perfluorohexadecanoic acid
537 IDA	537 IDA	Water	Perfluorohexanesulfonic acid
537 IDA	537 IDA	Water	Perfluorohexanoic acid
537 IDA	537 IDA	Water	Perfluorononanesulfonic acid
537 IDA	537 IDA	Water	Perfluorononanoic acid
537 IDA	537 IDA	Water	Perfluorooctadecanoic acid
537 IDA	537 IDA	Water	Perfluorooctanesulfonamide
537 IDA	537 IDA	Water	Perfluorooctanesulfonic acid
537 IDA	537 IDA	Water	Perfluorooctanoic acid
537 IDA	537 IDA	Water	Perfluoropentanesulfonic acid
537 IDA	537 IDA	Water	Perfluoropentanoic acid
537 IDA	537 IDA	Water	Perfluorotetradecanoic acid
537 IDA	537 IDA	Water	Perfluorotridecanoic acid
537 IDA	537 IDA	Water	Perfluoroundecanoic acid
537 IDA	EPA 537 (Mod)	Water	10:2 FTS
537 IDA	EPA 537 (Mod)	Water	11CI-PF3OUdS
537 IDA	EPA 537 (Mod)	Water	4:2 Fluorotelomer sulfonic acid
537 IDA	EPA 537 (Mod)	Water	6:2 Fluorotelomer sulfonic acid
537 IDA	EPA 537 (Mod)	Water	8:2 Fluorotelomer sulfonic acid
537 IDA	EPA 537 (Mod)	Water	9CI-PF3ONS
537 IDA	EPA 537 (Mod)	Water	DONA
537 IDA	EPA 537 (Mod)	Water	HFPODA
537 IDA	EPA 537 (Mod)	Water	NEtFOSA

Accreditation/Certification Summary

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Maryland	State	100	09-30-20
537 IDA	EPA 537 (Mod) Water	NEtFOSAA	
537 IDA	EPA 537 (Mod) Water	NEtFOSE	
537 IDA	EPA 537 (Mod) Water	NMeFOSA	
537 IDA	EPA 537 (Mod) Water	NMeFOSAA	
537 IDA	EPA 537 (Mod) Water	NMeFOSE	
537 IDA	EPA 537 (Mod) Water	Perfluorobutanesulfonic acid	
537 IDA	EPA 537 (Mod) Water	Perfluorobutanoic acid	
537 IDA	EPA 537 (Mod) Water	Perfluorodecanesulfonic acid	
537 IDA	EPA 537 (Mod) Water	Perfluorodecanoic acid	
537 IDA	EPA 537 (Mod) Water	Perfluorododecanesulfonic acid (PFDoS)	
537 IDA	EPA 537 (Mod) Water	Perfluorododecanoic acid	
537 IDA	EPA 537 (Mod) Water	Perfluoroheptanesulfonic acid	
537 IDA	EPA 537 (Mod) Water	Perfluoroheptanoic acid	
537 IDA	EPA 537 (Mod) Water	Perfluorohexadecanoic acid	
537 IDA	EPA 537 (Mod) Water	Perfluorohexanesulfonic acid	
537 IDA	EPA 537 (Mod) Water	Perfluorohexanoic acid	
537 IDA	EPA 537 (Mod) Water	Perfluorononanesulfonic acid	
537 IDA	EPA 537 (Mod) Water	Perfluorononanoic acid	
537 IDA	EPA 537 (Mod) Water	Perfluorooctadecanoic acid	
537 IDA	EPA 537 (Mod) Water	Perfluorooctanesulfonamide	
537 IDA	EPA 537 (Mod) Water	Perfluorooctanesulfonic acid	
537 IDA	EPA 537 (Mod) Water	Perfluorooctanoic acid	
537 IDA	EPA 537 (Mod) Water	Perfluoropentanesulfonic acid	
537 IDA	EPA 537 (Mod) Water	Perfluoropentanoic acid	
537 IDA	EPA 537 (Mod) Water	Perfluorotetradecanoic acid	
537 IDA	EPA 537 (Mod) Water	Perfluorotridecanoic acid	
537 IDA	EPA 537 (Mod) Water	Perfluoroundecanoic acid	

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537 IDA	537 IDA	Water	10:2 FTS
537 IDA	537 IDA	Water	11CI-PF3OUdS
537 IDA	537 IDA	Water	4:2 Fluorotelomer sulfonic acid
537 IDA	537 IDA	Water	6:2 Fluorotelomer sulfonic acid
537 IDA	537 IDA	Water	8:2 Fluorotelomer sulfonic acid
537 IDA	537 IDA	Water	9CI-PF3ONS
537 IDA	537 IDA	Water	DONA
537 IDA	537 IDA	Water	HFPODA
537 IDA	537 IDA	Water	NEtFOSA
537 IDA	537 IDA	Water	NEtFOSAA
537 IDA	537 IDA	Water	NEtFOSE
537 IDA	537 IDA	Water	NMeFOSA
537 IDA	537 IDA	Water	NMeFOSAA
537 IDA	537 IDA	Water	NMeFOSE
537 IDA	537 IDA	Water	Perfluorobutanesulfonic acid
537 IDA	537 IDA	Water	Perfluorobutanoic acid
537 IDA	537 IDA	Water	Perfluorodecanesulfonic acid
537 IDA	537 IDA	Water	Perfluorodecanoic acid

Accreditation/Certification Summary

Client: PEER
 Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-21
537 IDA	Water	Perfluorododecanesulfonic acid (PFDoS)	
537 IDA	Water	Perfluorododecanoic acid	
537 IDA	Water	Perfluoroheptanesulfonic acid	
537 IDA	Water	Perfluoroheptanoic acid	
537 IDA	Water	Perfluorohexadecanoic acid	
537 IDA	Water	Perfluorohexanesulfonic acid	
537 IDA	Water	Perfluorohexanoic acid	
537 IDA	Water	Perfluorononanesulfonic acid	
537 IDA	Water	Perfluorononanoic acid	
537 IDA	Water	Perfluorooctadecanoic acid	
537 IDA	Water	Perfluorooctanesulfonamide	
537 IDA	Water	Perfluorooctanesulfonic acid	
537 IDA	Water	Perfluorooctanoic acid	
537 IDA	Water	Perfluoropentanesulfonic acid	
537 IDA	Water	Perfluoropentanoic acid	
537 IDA	Water	Perfluorotetradecanoic acid	
537 IDA	Water	Perfluorotridecanoic acid	
537 IDA	Water	Perfluoroundecanoic acid	
537 IDA	Water	10:2 FTS	
537 IDA	Water	11CI-PF3OUdS	
537 IDA	Water	4:2 Fluorotelomer sulfonic acid	
537 IDA	Water	6:2 Fluorotelomer sulfonic acid	
537 IDA	Water	8:2 Fluorotelomer sulfonic acid	
537 IDA	Water	9CI-PF3ONS	
537 IDA	Water	DONA	
537 IDA	Water	HFPODA	
537 IDA	Water	NEtFOSA	
537 IDA	Water	NEtFOSAA	
537 IDA	Water	NEtFOSE	
537 IDA	Water	NMeFOSA	
537 IDA	Water	NMeFOSAA	
537 IDA	Water	NMeFOSE	
537 IDA	Water	Perfluorobutanesulfonic acid	
537 IDA	Water	Perfluorobutanoic acid	
537 IDA	Water	Perfluorodecanesulfonic acid	
537 IDA	Water	Perfluorodecanoic acid	
537 IDA	Water	Perfluorododecanesulfonic acid (PFDoS)	
537 IDA	Water	Perfluorododecanoic acid	
537 IDA	Water	Perfluoroheptanesulfonic acid	
537 IDA	Water	Perfluoroheptanoic acid	
537 IDA	Water	Perfluorohexadecanoic acid	
537 IDA	Water	Perfluorohexanesulfonic acid	
537 IDA	Water	Perfluorohexanoic acid	
537 IDA	Water	Perfluorononanesulfonic acid	
537 IDA	Water	Perfluorononanoic acid	
537 IDA	Water	Perfluorooctadecanoic acid	
537 IDA	Water	Perfluorooctanesulfonamide	
537 IDA	Water	Perfluorooctanesulfonic acid	
537 IDA	Water	Perfluorooctanoic acid	

Accreditation/Certification Summary

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-21
537 IDA	EPA 537 (Mod) Water	Perfluoropentanesulfonic acid	
537 IDA	EPA 537 (Mod) Water	Perfluoropentanoic acid	
537 IDA	EPA 537 (Mod) Water	Perfluorotetradecanoic acid	
537 IDA	EPA 537 (Mod) Water	Perfluorotridecanoic acid	
537 IDA	EPA 537 (Mod) Water	Perfluoroundecanoic acid	

Method Summary

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Method	Method Description	Protocol	Laboratory
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
EPA 537 (Mod)	EPA 537 Isotope Dilution	EPA	ELLE
Extract Aliquot	Preparation, Extract Aliquot	None	ELLE

Protocol References:

EPA = US Environmental Protection Agency
None = None

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: PEER
Project/Site: Anvil 10-10 Tests

Job ID: 410-12790-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-12790-1	1-Field Blank	Water	09/01/20 11:00	09/02/20 18:15	
410-12790-2	2-Anvil 10x10	Water	09/01/20 11:00	09/02/20 18:15	

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-12790-1

SDG No.: _____

Instrument ID: 30731 Analysis Batch Number: 40712

Lab Sample ID: IC 410-40712/1 Client Sample ID: _____

Date Analyzed: 09/03/20 13:37 Lab File ID: 20SEP03MCAL-05.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C3-PFBA	3.64	Baseline	renfrok	09/04/20 08:22
Perfluorooctanoic acid	5.39	Baseline	renfrok	09/04/20 08:23
Perfluorooctanesulfonic acid	5.70	Incomplete Integration	renfrok	09/04/20 08:23
NMeFOSE	6.57	Split Peak	renfrok	09/04/20 08:24
Perfluorooctadecanoic acid	7.47	Baseline	renfrok	09/04/20 08:25

Lab Sample ID: IC 410-40712/2 Client Sample ID: _____

Date Analyzed: 09/03/20 13:47 Lab File ID: 20SEP03MCAL-06.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C3-PFBA	3.70	Baseline	renfrok	09/04/20 08:25
Perfluorooctanesulfonic acid	5.71	Incomplete Integration	renfrok	09/04/20 08:26

Lab Sample ID: IC 410-40712/3 Client Sample ID: _____

Date Analyzed: 09/03/20 13:57 Lab File ID: 20SEP03MCAL-07.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C3-PFBA	3.69	Incomplete Integration	renfrok	09/04/20 08:27
Perfluorohexanesulfonic acid	5.01	Incomplete Integration	renfrok	09/04/20 08:27
Perfluorooctanesulfonic acid	5.71	Incomplete Integration	renfrok	09/04/20 08:27
NMeFOSAA	6.18	Incomplete Integration	knightj	09/04/20 08:15

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-12790-1

SDG No.: _____

Instrument ID: 30731 Analysis Batch Number: 40712

Lab Sample ID: IC 410-40712/4 Client Sample ID: _____

Date Analyzed: 09/03/20 14:07 Lab File ID: 20SEP03MCAL-08.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C3-PFBA	3.69	Incomplete Integration	renfrok	09/04/20 08:28
Perfluorooctanesulfonic acid	5.71	Incomplete Integration	renfrok	09/04/20 08:28

Lab Sample ID: ICISAV 410-40712/5 Client Sample ID: _____

Date Analyzed: 09/03/20 14:16 Lab File ID: 20SEP03MCAL-09.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C3-PFBA	3.68	Baseline	renfrok	09/04/20 08:33
Perfluorohexanesulfonic acid	5.01	Incomplete Integration	renfrok	09/04/20 08:30
Perfluorooctanesulfonic acid	5.71	Incomplete Integration	renfrok	09/04/20 08:30
NMeFOSAA	6.18	Incomplete Integration	knightj	09/04/20 08:12

Lab Sample ID: IC 410-40712/6 Client Sample ID: _____

Date Analyzed: 09/03/20 14:26 Lab File ID: 20SEP03MCAL-10.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C3-PFBA	3.69	Baseline	renfrok	09/04/20 08:33
Perfluorohexanesulfonic acid	5.02	Incomplete Integration	renfrok	09/04/20 08:31
Perfluorooctanesulfonic acid	5.71	Incomplete Integration	renfrok	09/04/20 08:31
NMeFOSAA	6.18	Incomplete Integration	knightj	09/04/20 08:13
NEtFOSAA	6.32	Incomplete Integration	knightj	09/04/20 08:13

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-12790-1

SDG No.: _____

Instrument ID: 30731 Analysis Batch Number: 40712

Lab Sample ID: IC 410-40712/7 Client Sample ID: _____

Date Analyzed: 09/03/20 14:36 Lab File ID: 20SEP03MCAL-11.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C3-PFBA	3.69	Baseline	renfrok	09/04/20 08:32
Perfluorooctanesulfonic acid	5.71	Incomplete Integration	renfrok	09/04/20 08:32
NMeFOSAA	6.18	Incomplete Integration	knightj	09/04/20 08:14

Lab Sample ID: ICB 410-40712/8 Client Sample ID: _____

Date Analyzed: 09/03/20 14:46 Lab File ID: 20SEP03MCAL-12.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C3-PFBA	3.68	Baseline	renfrok	09/04/20 08:35
NMeFOSAA	6.17	Split Peak	knightj	09/04/20 08:16
NEtFOSAA	6.31	Incomplete Integration	knightj	09/04/20 08:16

Lab Sample ID: ICV 410-40712/9 Client Sample ID: _____

Date Analyzed: 09/03/20 14:56 Lab File ID: 20SEP03MCAL-13.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluorooctanesulfonic acid	5.71	Incomplete Integration	renfrok	09/04/20 08:37

Lab Sample ID: WDM 410-40712/10 Client Sample ID: _____

Date Analyzed: 09/03/20 15:05 Lab File ID: 20SEP03MCAL-14.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluorooctanoic acid	5.38	Incomplete Integration	renfrok	09/04/20 08:38

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-12790-1

SDG No.: _____

Instrument ID: 30731 Analysis Batch Number: 41076

Lab Sample ID: CCV 410-41076/22 Client Sample ID: _____

Date Analyzed: 09/04/20 13:18 Lab File ID: 20SEP04-19.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluorooctanesulfonic acid	5.73	Missed Peak	kiserb	09/04/20 14:38
NMeFOSAA	6.19	Missed Peak	kiserb	09/04/20 14:38

Lab Sample ID: MB 410-40650/1-B Client Sample ID: _____

Date Analyzed: 09/04/20 13:28 Lab File ID: 20SEP04-20.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C3-PFBA	3.70	Baseline	renfrok	09/08/20 07:24
d7-N-MeFOSE-M	6.57	Baseline	renfrok	09/08/20 07:23
d5-NEtPFOSA	6.74	Missed Peak	renfrok	09/08/20 07:24

Lab Sample ID: LCS 410-40650/2-B Client Sample ID: _____

Date Analyzed: 09/04/20 13:38 Lab File ID: 20SEP04-21.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C3-PFBA	3.69	Baseline	renfrok	09/08/20 07:25
d7-N-MeFOSE-M	6.57	Baseline	renfrok	09/08/20 07:25

Lab Sample ID: LCSD 410-40650/3-B Client Sample ID: _____

Date Analyzed: 09/04/20 13:48 Lab File ID: 20SEP04-22.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
d7-N-MeFOSE-M	6.57	Baseline	renfrok	09/08/20 07:26
NMeFOSE	6.58	Baseline	renfrok	09/08/20 07:26
NMeFOSA	6.59	Baseline	renfrok	09/08/20 07:27
NEtFOSE	6.75	Baseline	renfrok	09/08/20 07:27

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-12790-1

SDG No.: _____

Instrument ID: 30731 Analysis Batch Number: 41076

Lab Sample ID: CCV 410-41076/27 Client Sample ID: _____

Date Analyzed: 09/04/20 14:07 Lab File ID: 20SEP04-24.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluorooctanesulfonic acid	5.72	Incomplete Integration	renfrok	09/08/20 07:21
NMeFOSAA	6.19	Incomplete Integration	renfrok	09/08/20 07:22
NEtFOSAA	6.33	Incomplete Integration	renfrok	09/08/20 07:22

Lab Sample ID: CCV 410-41076/50 Client Sample ID: _____

Date Analyzed: 09/04/20 16:15 Lab File ID: 20SEP04-37.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluorooctanesulfonic acid	5.70	Incomplete Integration	renfrok	09/08/20 07:58
NMeFOSAA	6.17	Incomplete Integration	renfrok	09/08/20 07:58
NEtFOSAA	6.30	Incomplete Integration	renfrok	09/08/20 07:59

Lab Sample ID: CCV 410-41076/51 Client Sample ID: _____

Date Analyzed: 09/04/20 18:03 Lab File ID: 20SEP04-48.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluorooctanesulfonic acid	5.69	Incomplete Integration	renfrok	09/08/20 07:31
NMeFOSAA	6.16	Incomplete Integration	renfrok	09/08/20 07:31
NEtFOSAA	6.30	Incomplete Integration	renfrok	09/08/20 07:32

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-12790-1

SDG No.: _____

Instrument ID: 30731 Analysis Batch Number: 41778

Lab Sample ID: IC 410-41778/1 Client Sample ID: _____

Date Analyzed: 09/08/20 19:09 Lab File ID: 20SEP08MCAL-01.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluorohexanesulfonic acid	5.04	Missed Peak	polaskia	09/08/20 20:37
Perfluorooctanoic acid	5.42	Missed Peak	polaskia	09/08/20 20:38
Perfluorooctanesulfonic acid	5.74	Missed Peak	polaskia	09/08/20 20:38

Lab Sample ID: IC 410-41778/2 Client Sample ID: _____

Date Analyzed: 09/08/20 19:19 Lab File ID: 20SEP08MCAL-02.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluorohexanesulfonic acid	5.04	Missed Peak	polaskia	09/08/20 20:40
Perfluorooctanesulfonic acid	5.73	Missed Peak	polaskia	09/08/20 20:40

Lab Sample ID: IC 410-41778/3 Client Sample ID: _____

Date Analyzed: 09/08/20 19:29 Lab File ID: 20SEP08MCAL-03.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluorooctanoic acid	5.41	Missed Peak	polaskia	09/08/20 20:41
Perfluorooctanesulfonic acid	5.73	Missed Peak	polaskia	09/08/20 20:41
NMeFOSAA	6.20	Missed Peak	polaskia	09/08/20 20:41

Lab Sample ID: IC 410-41778/4 Client Sample ID: _____

Date Analyzed: 09/08/20 19:39 Lab File ID: 20SEP08MCAL-04.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluorooctanesulfonic acid	5.73	Missed Peak	polaskia	09/08/20 20:42
NMeFOSAA	6.19	Missed Peak	polaskia	09/08/20 20:42
NEtFOSAA	6.33	Missed Peak	polaskia	09/08/20 20:42

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-12790-1

SDG No.: _____

Instrument ID: 30731 Analysis Batch Number: 41778

Lab Sample ID: ICISAV 410-41778/5 Client Sample ID: _____

Date Analyzed: 09/08/20 19:48 Lab File ID: 20SEP08MCAL-05.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluorohexanesulfonic acid	5.05	Missed Peak	polaskia	09/08/20 20:37
Perfluorooctanesulfonic acid	5.74	Missed Peak	polaskia	09/08/20 20:37
NMeFOSAA	6.19	Missed Peak	polaskia	09/08/20 20:37
NEtFOSAA	6.33	Missed Peak	polaskia	09/08/20 20:37

Lab Sample ID: IC 410-41778/6 Client Sample ID: _____

Date Analyzed: 09/08/20 19:58 Lab File ID: 20SEP08MCAL-06.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluorooctanesulfonic acid	5.73	Missed Peak	polaskia	09/08/20 20:43
NMeFOSAA	6.19	Missed Peak	polaskia	09/08/20 20:43
NEtFOSAA	6.33	Missed Peak	polaskia	09/08/20 20:43

Lab Sample ID: IC 410-41778/7 Client Sample ID: _____

Date Analyzed: 09/08/20 20:08 Lab File ID: 20SEP08MCAL-07.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluorooctanesulfonic acid	5.73	Missed Peak	polaskia	09/08/20 20:44
NMeFOSAA	6.19	Missed Peak	polaskia	09/08/20 20:44
NEtFOSAA	6.33	Missed Peak	polaskia	09/08/20 20:44

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-12790-1

SDG No.: _____

Instrument ID: 30731 Analysis Batch Number: 41778

Lab Sample ID: ICB 410-41778/8 Client Sample ID: _____

Date Analyzed: 09/08/20 20:18 Lab File ID: 20SEP08MCAL-08.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluorooctanesulfonic acid	5.64	Missed Peak	polaskia	09/08/20 20:52
NMeFOSAA	6.20	Missed Peak	polaskia	09/08/20 20:51
NEtFOSAA	6.33	Missed Peak	polaskia	09/08/20 20:51

Lab Sample ID: ICV 410-41778/9 Client Sample ID: _____

Date Analyzed: 09/08/20 20:28 Lab File ID: 20SEP08MCAL-09.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluorooctanesulfonic acid	5.73	Missed Peak	polaskia	09/08/20 20:52

Lab Sample ID: WDM 410-41778/10 Client Sample ID: _____

Date Analyzed: 09/08/20 20:37 Lab File ID: 20SEP08MCAL-10.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluorooctanoic acid	5.41	Missed Peak	polaskia	09/08/20 20:53

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-12790-1

SDG No.: _____

Instrument ID: 30731 Analysis Batch Number: 41807

Lab Sample ID: CCV 410-41807/56 Client Sample ID: _____

Date Analyzed: 09/08/20 21:38 Lab File ID: 20SEP08-03.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluorohexanesulfonic acid	5.06	Missed Peak	polaskia	09/08/20 22:05
Perfluorooctanesulfonic acid	5.76	Missed Peak	polaskia	09/08/20 22:05
NMeFOSAA	6.22	Missed Peak	polaskia	09/08/20 22:05
NEtFOSAA	6.36	Missed Peak	polaskia	09/08/20 22:05

Lab Sample ID: CCV 410-41807/88 Client Sample ID: _____

Date Analyzed: 09/09/20 00:24 Lab File ID: 20SEP08-20.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluorooctanesulfonic acid	5.73	Incomplete Integration	renfrok	09/09/20 06:49
NMeFOSAA	6.19	Incomplete Integration	renfrok	09/09/20 06:49
NEtFOSAA	6.33	Incomplete Integration	renfrok	09/09/20 06:49

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-12790-1

SDG No.: _____

Instrument ID: 30731 Analysis Batch Number: 42076

Lab Sample ID: CCV 410-42076/10 Client Sample ID: _____

Date Analyzed: 09/09/20 15:24 Lab File ID: 20SEP09-14.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluorohexanesulfonic acid	5.07	Missed Peak	polaskia	09/09/20 16:10
Perfluorooctanesulfonic acid	5.76	Missed Peak	polaskia	09/09/20 16:10
NMeFOSAA	6.23	Missed Peak	polaskia	09/09/20 16:11
NEtFOSAA	6.37	Missed Peak	polaskia	09/09/20 16:11

Lab Sample ID: LCS 410-41621/2-B Client Sample ID: _____

Date Analyzed: 09/09/20 17:20 Lab File ID: 20SEP09-19.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
NMeFOSE	6.59	Shouldering	knightj	09/10/20 12:23

Lab Sample ID: 410-12790-2 RE Client Sample ID: 2-Anvil 10x10 RE

Date Analyzed: 09/09/20 17:49 Lab File ID: 20SEP09-22.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluorooctanoic acid	5.40	Missed Peak	polaskia	09/09/20 20:30
Perfluorooctanesulfonic acid	5.63	Missed Peak	polaskia	09/09/20 20:30
NEtFOSAA	6.31	Missed Peak	polaskia	09/09/20 20:30
NEtFOSE	6.72	Split Peak	polaskia	09/09/20 20:31

Lab Sample ID: CCV 410-42076/15 Client Sample ID: _____

Date Analyzed: 09/09/20 17:59 Lab File ID: 20SEP09-23.d GC Column: Gemini C18 50m ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perfluorooctanesulfonic acid	5.73	Missed Peak	polaskia	09/09/20 18:42
NMeFOSAA	6.19	Missed Peak	polaskia	09/09/20 18:42
NEtFOSAA	6.33	Missed Peak	polaskia	09/09/20 18:42

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
PFC_ICV_MOD_00015	09/11/20	08/07/20	Methanol, Lot DX851-US	10 mL	PFC_ST_00381	0.025 mL	13C2 PFDA	5 ng/mL		
							13C2 PFOA	5 ng/mL		
							13C3-PFBA	5 ng/mL		
							13C4 PFOS	4.7825 ng/mL		
.PFC_ST_00381	08/23/23	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFDA	2000 ng/mL		
							13C2 PFOA	2000 ng/mL		
							13C3-PFBA	2000 ng/mL		
							13C4 PFOS	1913 ng/mL		
PFC_ICV_MOD_00015	09/11/20	08/07/20	Methanol, Lot DX851-US	10 mL	PFC_IN_00166	0.05 mL	d3-NMeFOSAA	10 ng/mL		
							d5-NEtFOSAA	10 ng/mL		
							d5-NEtPFOSA	10 ng/mL		
							d3-NMePFOSA	10 ng/mL		
							M2-4:2 FTS	9.34 ng/mL		
							M2-6:2 FTS	9.5 ng/mL		
							M2-8:2 FTS	9.58 ng/mL		
							13C8 FOSA	10 ng/mL		
							d7-N-MeFOSE-M	10 ng/mL		
							d9-N-EtFOSE-M	10 ng/mL		
							13C3 HFPO-DA	10 ng/mL		
							PFC_IN_00211	0.04 mL	Perfluorobutanesulfonic acid	1.769 ng/mL
									Perfluorodecanesulfonic acid	1.926 ng/mL
									Perfluoroheptanesulfonic acid	1.903 ng/mL
					Perfluorohexanesulfonic acid	1.891 ng/mL				
					Perfluorooctanesulfonic acid	1.912 ng/mL				
					Perfluorobutanoic acid	2 ng/mL				
					Perfluorodecanoic acid	2 ng/mL				
					Perfluorododecanoic acid	2 ng/mL				
					Perfluoroheptanoic acid	2 ng/mL				
					Perfluorohexanoic acid	2 ng/mL				
					Perfluorononanoic acid	2 ng/mL				
					Perfluorooctanoic acid	2 ng/mL				
					Perfluoropentanoic acid	2 ng/mL				
					Perfluorotetradecanoic acid	2 ng/mL				
					Perfluorotridecanoic acid	2 ng/mL				
					Perfluoroundecanoic acid	2 ng/mL				
					NEtFOSAA	2 ng/mL				
					NMeFOSAA	2 ng/mL				
					HFPODA	2 ng/mL				
					DONA	1.884 ng/mL				
					9Cl-PF3ONS	1.864 ng/mL				
					11Cl-PF3OUdS	1.884 ng/mL				
PFC_ST_00437	0.05 mL	13C2 PFTeDA	10 ng/mL							
		13C2-PFDoDA	10 ng/mL							
		13C3 PFBS	9.36 ng/mL							
		13C3 PFHxS	9.46 ng/mL							
		13C4 PFBA	10 ng/mL							
13C4 PFHpA	10 ng/mL									

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							13C5 PFHxA	10 ng/mL
							13C5 PFPeA	10 ng/mL
							13C6 PFDA	10 ng/mL
							13C7 PFUnA	10 ng/mL
							13C8 PFOA	10 ng/mL
							13C8 PFOS	9.565 ng/mL
							13C9 PFNA	10 ng/mL
.PFC_IN_00166	09/11/20	06/11/20	Methanol, Lot DX851-US	2 mL	PFC_ST_00280	0.08 mL	d3-NMeFOSAA	2000 ng/mL
					PFC_ST_00281	0.08 mL	d5-NEtFOSAA	2000 ng/mL
					PFC_ST_00282	0.08 mL	d5-NEtPFOSA	2000 ng/mL
					PFC_ST_00283	0.08 mL	d3-NMePFOSA	2000 ng/mL
					PFC_ST_00284	0.08 mL	M2-4:2 FTS	1868 ng/mL
					PFC_ST_00285	0.08 mL	M2-6:2 FTS	1900 ng/mL
					PFC_ST_00286	0.08 mL	M2-8:2 FTS	1916 ng/mL
					PFC_ST_00287	0.08 mL	13C8 FOSA	2000 ng/mL
					PFC_ST_00288	0.08 mL	d7-N-MeFOSE-M	2000 ng/mL
					PFC_ST_00289	0.08 mL	d9-N-EtFOSE-M	2000 ng/mL
					PFC_ST_00290	0.08 mL	13C3 HFPO-DA	2000 ng/mL
..PFC_ST_00280	12/02/24		Wellington Laboratories, Lot d3NMeFOSAA1119		(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_00281	07/25/24		Wellington Laboratories, Lot d5NEtFOSAA0719		(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
..PFC_ST_00282	10/18/24		Wellington Laboratories, Lot dNEtFOSA1019M		(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_00283	11/21/24		Wellington Laboratories, Lot dNMeFOSA1119M		(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC_ST_00284	10/29/24		Wellington Laboratories, Lot M242FTS1019		(Purchased Reagent)		M2-4:2 FTS	46700 ng/mL
..PFC_ST_00285	11/21/24		Wellington Laboratories, Lot M262FTS1119		(Purchased Reagent)		M2-6:2 FTS	47500 ng/mL
..PFC_ST_00286	12/24/24		Wellington Laboratories, Lot M282FTS1219		(Purchased Reagent)		M2-8:2 FTS	47900 ng/mL
..PFC_ST_00287	06/19/24		Wellington Laboratories, Lot M8FOSA0220I		(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_00288	12/16/24		Wellington Laboratories, Lot d7NMeFOSE1119M		(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_00289	08/15/24		Wellington Laboratories, Lot d9NEtFOSE0819M		(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/mL
..PFC_ST_00290	01/08/23		Wellington Laboratories, Lot M3HFPODA0120		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_IN_00211	11/05/20	08/07/20	Methanol, Lot DX851-US	2 mL	PFC_ST_00296	0.5 mL	Perfluorobutanesulfonic acid	442.25 ng/mL
							Perfluorodecanesulfonic acid	481.5 ng/mL
							Perfluoroheptanesulfonic acid	475.75 ng/mL
							Perfluorohexanesulfonic acid	472.75 ng/mL
							Perfluorooctanesulfonic acid	478 ng/mL
					PFC_ST_00297	0.5 mL	Perfluorobutanoic acid	500 ng/mL
							Perfluorodecanoic acid	500 ng/mL
							Perfluorododecanoic acid	500 ng/mL
							Perfluoroheptanoic acid	500 ng/mL
							Perfluorohexanoic acid	500 ng/mL
							Perfluorononanoic acid	500 ng/mL
							Perfluorooctanoic acid	500 ng/mL
							Perfluoropentanoic acid	500 ng/mL
							Perfluorotetradecanoic acid	500 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorotridecanoic acid	500 ng/mL
							Perfluoroundecanoic acid	500 ng/mL
					PFC_ST_00443	0.02 mL	NEtFOSAA	500 ng/mL
					PFC_ST_00444	0.02 mL	NMeFOSAA	500 ng/mL
					PFC_ST_00449	0.02 mL	HFPODA	500 ng/mL
					PFC_ST_00450	0.02 mL	DONA	471 ng/mL
					PFC_ST_00451	0.02 mL	9Cl-PF3ONS	466 ng/mL
					PFC_ST_00452	0.02 mL	11Cl-PF3OUdS	471 ng/mL
..PFC_ST_00296	04/27/21	Wellington Laboratories, Lot PFSMXA0919			(Purchased Reagent)		Perfluorobutanesulfonic acid	1769 ng/mL
							Perfluorodecanesulfonic acid	1926 ng/mL
							Perfluoroheptanesulfonic acid	1903 ng/mL
							Perfluorohexanesulfonic acid	1891 ng/mL
							Perfluorooctanesulfonic acid	1912 ng/mL
..PFC_ST_00297	04/27/21	Wellington Laboratories, Lot PFCMXA0718			(Purchased Reagent)		Perfluorobutanoic acid	2000 ng/mL
							Perfluorodecanoic acid	2000 ng/mL
							Perfluorododecanoic acid	2000 ng/mL
							Perfluoroheptanoic acid	2000 ng/mL
							Perfluorohexanoic acid	2000 ng/mL
							Perfluorononanoic acid	2000 ng/mL
							Perfluorooctanoic acid	2000 ng/mL
							Perfluoropentanoic acid	2000 ng/mL
							Perfluorotetradecanoic acid	2000 ng/mL
							Perfluorotridecanoic acid	2000 ng/mL
							Perfluoroundecanoic acid	2000 ng/mL
..PFC_ST_00443	04/27/21	Wellington Laboratories, Lot NEtFOSAA0819			(Purchased Reagent)		NEtFOSAA	50000 ng/mL
..PFC_ST_00444	04/27/21	Wellington Laboratories, Lot NMeFOSAA0819			(Purchased Reagent)		NMeFOSAA	50000 ng/mL
..PFC_ST_00449	01/23/23	Wellington Laboratories, Lot HFPODA0120			(Purchased Reagent)		HFPODA	50000 ng/mL
..PFC_ST_00450	11/18/24	Wellington Laboratories, Lot NaDONA1119			(Purchased Reagent)		DONA	47100 ng/mL
..PFC_ST_00451	10/30/24	Wellington Laboratories, Lot 9CIPF3ONS1019			(Purchased Reagent)		9Cl-PF3ONS	46600 ng/mL
..PFC_ST_00452	03/25/25	Wellington Laboratories, Lot 11CIPF3OUdS1019			(Purchased Reagent)		11Cl-PF3OUdS	47100 ng/mL
.PFC_ST_00437	05/04/25	Wellington Laboratories, Lot MPFACCES1019			(Purchased Reagent)		13C2 PFTeDA	2000 ng/mL
							13C2-PFDoDA	2000 ng/mL
							13C3 PFBS	1872 ng/mL
							13C3 PFHxS	1892 ng/mL
							13C4 PFBA	2000 ng/mL
							13C4 PFHpA	2000 ng/mL
							13C5 PFHxA	2000 ng/mL
							13C5 PFPeA	2000 ng/mL
							13C6 PFDA	2000 ng/mL
							13C7 PFUnA	2000 ng/mL
							13C8 PFOA	2000 ng/mL
							13C8 PFOS	1913 ng/mL
							13C9 PFNA	2000 ng/mL
PFC_IS_MOD_00041	09/16/20	09/02/20	Methanol, Lot DY532-US	10 mL	PFC_ST_00381	0.5 mL	13C2 PFDA	100 ng/mL
							13C2 PFOA	100 ng/mL
							13C3-PFBA	100 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration												
					Reagent ID	Volume Added														
.PFC_ST_00381	08/23/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C4 PFOS	95.65 ng/mL												
							13C2 PFDA	2000 ng/mL												
							13C2 PFOA	2000 ng/mL												
							13C3-PFBA	2000 ng/mL												
							13C4 PFOS	1913 ng/mL												
PFC_IS_MOD_00042	09/16/20	09/08/20	Methanol, Lot DX532-US	10 mL	PFC_ST_00462	0.5 mL	13C2 PFDA	100 ng/mL												
							13C2 PFOA	100 ng/mL												
							13C3-PFBA	100 ng/mL												
							13C4 PFOS	95.65 ng/mL												
							(Purchased Reagent)		13C2 PFDA	2000 ng/mL										
13C2 PFOA	2000 ng/mL																			
13C3-PFBA	2000 ng/mL																			
13C4 PFOS	1913 ng/mL																			
.PFC_ST_00462	06/17/25		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)				13C2 PFDA	2000 ng/mL										
							13C2 PFOA	2000 ng/mL												
							13C3-PFBA	2000 ng/mL												
							13C4 PFOS	1913 ng/mL												
							PFC_LB_MOD_00011	09/11/20	06/11/20	Methanol, Lot DX785-US	10 mL	PFC_IN_00166	0.05 mL	d3-NMeFOSAA	10 ng/mL					
d5-NEtFOSAA	10 ng/mL																			
d5-NEtPFOSA	10 ng/mL																			
d3-NMePFOSA	10 ng/mL																			
M2-4:2 FTS	9.34 ng/mL																			
M2-6:2 FTS	9.5 ng/mL																			
M2-8:2 FTS	9.58 ng/mL																			
13C8 FOSA	10 ng/mL																			
d7-N-MeFOSE-M	10 ng/mL																			
d9-N-EtFOSE-M	10 ng/mL																			
13C3 HFPO-DA	10 ng/mL																			
13C4 PFOA	10 ng/mL																			
13C2 PFHxA	10 ng/mL																			
13C2 PFUnA	10 ng/mL																			
PFC_IN_00167	0.04 mL	Perfluorooctanoic acid	2 ng/mL																	
PFC_ST_00359						0.05 mL						13C2 PFTeDA	10 ng/mL							
												13C2-PFDoDA	10 ng/mL							
												13C3 PFBS	9.36 ng/mL							
												13C3 PFHxS	9.46 ng/mL							
												13C4 PFBA	10 ng/mL							
												13C4 PFHpA	10 ng/mL							
												13C5 PFHxA	10 ng/mL							
												13C5 PFPeA	10 ng/mL							
												13C6 PFDA	10 ng/mL							
												13C7 PFUnA	10 ng/mL							
												13C8 PFOA	10 ng/mL							
												13C8 PFOS	9.565 ng/mL							
												13C9 PFNA	10 ng/mL							
												.PFC_IN_00166	09/11/20	06/11/20	Methanol, Lot DX851-US	2 mL	PFC_ST_00280	0.08 mL	d3-NMeFOSAA	2000 ng/mL
																	PFC_ST_00281	0.08 mL	d5-NEtFOSAA	2000 ng/mL
PFC_ST_00282	0.08 mL	d5-NEtPFOSA	2000 ng/mL																	
PFC_ST_00283	0.08 mL	d3-NMePFOSA	2000 ng/mL																	
PFC_ST_00284	0.08 mL	M2-4:2 FTS	1868 ng/mL																	
PFC_ST_00285	0.08 mL	M2-6:2 FTS	1900 ng/mL																	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_00286	0.08 mL	M2-8:2 FTS	1916 ng/mL
					PFC_ST_00287	0.08 mL	13C8 FOSA	2000 ng/mL
					PFC_ST_00288	0.08 mL	d7-N-MeFOSE-M	2000 ng/mL
					PFC_ST_00289	0.08 mL	d9-N-EtFOSE-M	2000 ng/mL
					PFC_ST_00290	0.08 mL	13C3 HFPO-DA	2000 ng/mL
					PFC_ST_00304	0.08 mL	13C4 PFOA	2000 ng/mL
					PFC_ST_00305	0.08 mL	13C2 PFHxA	2000 ng/mL
					PFC_ST_00306	0.08 mL	13C2 PFUnA	2000 ng/mL
..PFC_ST_00280	12/02/24		Wellington Laboratories, Lot d3NMeFOSAA1119		(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_00281	07/25/24		Wellington Laboratories, Lot d5NEtFOSAA0719		(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
..PFC_ST_00282	10/18/24		Wellington Laboratories, Lot dNEtFOSA1019M		(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_00283	11/21/24		Wellington Laboratories, Lot dNMeFOSA1119M		(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC_ST_00284	10/29/24		Wellington Laboratories, Lot M242FTS1019		(Purchased Reagent)		M2-4:2 FTS	46700 ng/mL
..PFC_ST_00285	11/21/24		Wellington Laboratories, Lot M262FTS1119		(Purchased Reagent)		M2-6:2 FTS	47500 ng/mL
..PFC_ST_00286	12/24/24		Wellington Laboratories, Lot M282FTS1219		(Purchased Reagent)		M2-8:2 FTS	47900 ng/mL
..PFC_ST_00287	06/19/24		Wellington Laboratories, Lot M8FOSA0220I		(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_00288	12/16/24		Wellington Laboratories, Lot d7NMeFOSE1119M		(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_00289	08/15/24		Wellington Laboratories, Lot d9NEtFOSE0819M		(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/mL
..PFC_ST_00290	01/08/23		Wellington Laboratories, Lot M3HFPODA0120		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
..PFC_ST_00304	07/10/24		Wellington Laboratories, Lot MPFOA0619		(Purchased Reagent)		13C4 PFOA	50000 ng/mL
..PFC_ST_00305	10/11/24		Wellington Laboratories, Lot MPFHxA1019		(Purchased Reagent)		13C2 PFHxA	50000 ng/mL
..PFC_ST_00306	12/04/24		Wellington Laboratories, Lot MPFUDa1219		(Purchased Reagent)		13C2 PFUnA	50000 ng/mL
.PFC_IN_00167	09/11/20	06/11/20	MeOH, Lot DX851-US	2 mL	PFC_ST_00390	0.02 mL	Perfluorooctanoic acid	500 ng/mL
..PFC_ST_00390	03/18/24		Wellington Laboratories, Lot TPFOA0319		(Purchased Reagent)		Perfluorooctanoic acid	50000 ng/mL
.PFC_ST_00359	01/02/25		Wellington Laboratories, Lot MPFACCES1019		(Purchased Reagent)		13C2 PFTeDA	2000 ng/mL
							13C2-PFDoDA	2000 ng/mL
							13C3 PFBS	1872 ng/mL
							13C3 PFHxS	1892 ng/mL
							13C4 PFBA	2000 ng/mL
							13C4 PFHpA	2000 ng/mL
							13C5 PFHxA	2000 ng/mL
							13C5 PFPeA	2000 ng/mL
							13C6 PFDA	2000 ng/mL
							13C7 PFUnA	2000 ng/mL
							13C8 PFOA	2000 ng/mL
							13C8 PFOS	1913 ng/mL
							13C9 PFNA	2000 ng/mL
PFC_MS_MODWX_00024	12/01/20	08/31/20	Methanol, Lot DX851-US	5 mL	PFC_IN_00229	0.4 mL	NETFOSA	160 ng/mL
							NMeFOSA	160 ng/mL
							NEtFOSE	160 ng/mL
							NMeFOSE	160 ng/mL
							Perfluorooctanesulfonamide	160 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
							NEtFOSAA	160 ng/mL		
							NMeFOSAA	160 ng/mL		
							4:2 Fluorotelomer sulfonic acid	149.44 ng/mL		
							6:2 Fluorotelomer sulfonic acid	151.68 ng/mL		
							8:2 Fluorotelomer sulfonic acid	153.28 ng/mL		
							10:2 FTS	154.24 ng/mL		
							HFPODA	160 ng/mL		
							DONA	150.72 ng/mL		
							9Cl-PF3ONS	149.12 ng/mL		
							11Cl-PF3OUdS	150.72 ng/mL		
							PFC_ST_00340	0.4 mL	Perfluorobutanesulfonic acid	141.52 ng/mL
									Perfluorobutanoic acid	160 ng/mL
									Perfluorodecanesulfonic acid	154.08 ng/mL
							Perfluorodecanoic acid	160 ng/mL		
							Perfluorododecanesulfonic acid (PFDoS)	154.88 ng/mL		
							Perfluorododecanoic acid	160 ng/mL		
							Perfluoroheptanesulfonic acid	152.24 ng/mL		
							Perfluoroheptanoic acid	160 ng/mL		
							Perfluoroheptadecanoic acid	160 ng/mL		
							Perfluorohexanesulfonic acid	151.28 ng/mL		
							Perfluorohexanoic acid	160 ng/mL		
							Perfluorononanesulfonic acid	153.6 ng/mL		
							Perfluorononanoic acid	160 ng/mL		
		Perfluorooctadecanoic acid	160 ng/mL							
		Perfluorooctanesulfonic acid	152.96 ng/mL							
		Perfluorooctanoic acid	160 ng/mL							
		Perfluoropentanesulfonic acid	150.08 ng/mL							
		Perfluoropentanoic acid	160 ng/mL							
		Perfluorotetradecanoic acid	160 ng/mL							
		Perfluorotridecanoic acid	160 ng/mL							
		Perfluoroundecanoic acid	160 ng/mL							
.PFC_IN_00229	12/01/20	08/31/20	Methanol, Lot DX851-US	5 mL	PFC_ST_00475	0.2 mL	NEtFOSA	2000 ng/mL		
					PFC_ST_00476	0.2 mL	NMeFOSA	2000 ng/mL		
					PFC_ST_00477	0.2 mL	NEtFOSE	2000 ng/mL		
					PFC_ST_00478	0.2 mL	NMeFOSE	2000 ng/mL		
					PFC_ST_00479	0.2 mL	Perfluorooctanesulfonamide	2000 ng/mL		
					PFC_ST_00480	0.2 mL	NEtFOSAA	2000 ng/mL		
					PFC_ST_00481	0.2 mL	NMeFOSAA	2000 ng/mL		
					PFC_ST_00482	0.2 mL	4:2 Fluorotelomer sulfonic acid	1868 ng/mL		
					PFC_ST_00483	0.2 mL	6:2 Fluorotelomer sulfonic acid	1896 ng/mL		
					PFC_ST_00484	0.2 mL	8:2 Fluorotelomer sulfonic acid	1916 ng/mL		
					PFC_ST_00485	0.2 mL	10:2 FTS	1928 ng/mL		

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_00486	0.2 mL	HFPODA	2000 ng/mL
					PFC_ST_00487	0.2 mL	DONA	1884 ng/mL
					PFC_ST_00488	0.2 mL	9Cl-PF3ONS	1864 ng/mL
					PFC_ST_00489	0.2 mL	11Cl-PF3OUdS	1884 ng/mL
..PFC_ST_00475	02/21/25	Wellington Laboratories, Lot	NetFOSA0220M		(Purchased Reagent)		NetFOSA	50000 ng/mL
..PFC_ST_00476	12/24/24	Wellington Laboratories, Lot	NMeFOSA1219M		(Purchased Reagent)		NMeFOSA	50000 ng/mL
..PFC_ST_00477	01/06/25	Wellington Laboratories, Lot	NetFOSE1219M		(Purchased Reagent)		NetFOSE	50000 ng/mL
..PFC_ST_00478	01/06/25	Wellington Laboratories, Lot	NMeFOSE1219M		(Purchased Reagent)		NMeFOSE	50000 ng/mL
..PFC_ST_00479	04/15/25	Wellington Laboratories, Lot	FOSA0420I		(Purchased Reagent)		Perfluorooctanesulfonamide	50000 ng/mL
..PFC_ST_00480	07/10/25	Wellington Laboratories, Lot	NetFOSAA0720		(Purchased Reagent)		NetFOSAA	50000 ng/mL
..PFC_ST_00481	08/20/24	Wellington Laboratories, Lot	NMeFOSAA0819		(Purchased Reagent)		NMeFOSAA	50000 ng/mL
..PFC_ST_00482	10/29/24	Wellington Laboratories, Lot	42FTS1019		(Purchased Reagent)		4:2 Fluorotelomer sulfonic acid	46700 ng/mL
..PFC_ST_00483	04/21/25	Wellington Laboratories, Lot	62FTS0420		(Purchased Reagent)		6:2 Fluorotelomer sulfonic acid	47400 ng/mL
..PFC_ST_00484	05/08/25	Wellington Laboratories, Lot	82FTS0520		(Purchased Reagent)		8:2 Fluorotelomer sulfonic acid	47900 ng/mL
..PFC_ST_00485	06/11/22	Wellington Laboratories, Lot	102FTS0619		(Purchased Reagent)		10:2 FTS	48200 ng/mL
..PFC_ST_00486	07/09/23	Wellington Laboratories, Lot	HFPODA0720		(Purchased Reagent)		HFPODA	50000 ng/mL
..PFC_ST_00487	07/09/25	Wellington Laboratories, Lot	NaDONA0620		(Purchased Reagent)		DONA	47100 ng/mL
..PFC_ST_00488	04/21/25	Wellington Laboratories, Lot	9CIPF3ONS0420		(Purchased Reagent)		9Cl-PF3ONS	46600 ng/mL
..PFC_ST_00489	03/25/25	Wellington Laboratories, Lot	11CIPF3OUdS0320		(Purchased Reagent)		11Cl-PF3OUdS	47100 ng/mL
.PFC_ST_00340	03/19/24	Wellington Laboratories, Lot	PFACMXC0617		(Purchased Reagent)		Perfluorobutanesulfonic acid	1769 ng/mL
							Perfluorobutanoic acid	2000 ng/mL
							Perfluorodecanesulfonic acid	1926 ng/mL
							Perfluorodecanoic acid	2000 ng/mL
							Perfluorododecanesulfonic acid (PFDoS)	1936 ng/mL
							Perfluorododecanoic acid	2000 ng/mL
							Perfluoroheptanesulfonic acid	1903 ng/mL
							Perfluoroheptanoic acid	2000 ng/mL
							Perfluorohexadecanoic acid	2000 ng/mL
							Perfluorohexanesulfonic acid	1891 ng/mL
							Perfluorohexanoic acid	2000 ng/mL
							Perfluorononanesulfonic acid	1920 ng/mL
							Perfluorononanoic acid	2000 ng/mL
							Perfluorooctadecanoic acid	2000 ng/mL
							Perfluorooctanesulfonic acid	1912 ng/mL
							Perfluorooctanoic acid	2000 ng/mL
							Perfluoropentanesulfonic acid	1876 ng/mL
							Perfluoropentanoic acid	2000 ng/mL
							Perfluorotetradecanoic acid	2000 ng/mL
							Perfluorotridecanoic acid	2000 ng/mL
							Perfluoroundecanoic acid	2000 ng/mL
PFC_SS_MODX_00030	11/17/20	08/20/20	Methanol, Lot DX851-US	20 mL	PFC_IN_00219	4 mL	d3-NMeFOSAA	400 ng/mL
							d5-NetFOSAA	400 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
							d5-NEtPFOSA	400 ng/mL	
							d3-NMePFOSA	400 ng/mL	
							M2-4:2 FTS	373.6 ng/mL	
							M2-6:2 FTS	380 ng/mL	
							M2-8:2 FTS	383.2 ng/mL	
							13C8 FOSA	400 ng/mL	
							d7-N-MeFOSE-M	400 ng/mL	
							d9-N-EtFOSE-M	400 ng/mL	
							13C3 HFPO-DA	400 ng/mL	
					PFC_ST_00454	4 mL	13C2 PFTeDA	400 ng/mL	
							13C2-PFDoDA	400 ng/mL	
							13C3 PFBS	374.4 ng/mL	
							13C3 PFHxS	378.4 ng/mL	
							13C4 PFBA	400 ng/mL	
							13C4 PFHpA	400 ng/mL	
							13C5 PFHxA	400 ng/mL	
							13C5 PFPeA	400 ng/mL	
							13C6 PFDA	400 ng/mL	
							13C7 PFUnA	400 ng/mL	
							13C8 PFOA	400 ng/mL	
							13C8 PFOS	382.6 ng/mL	
							13C9 PFNA	400 ng/mL	
.PFC_IN_00219	11/17/20	08/17/20	Methanol, Lot DX851-US	10 mL	PFC_ST_00426	0.4 mL	d3-NMeFOSAA	2000 ng/mL	
					PFC_ST_00427	0.4 mL	d5-NEtFOSAA	2000 ng/mL	
					PFC_ST_00428	0.4 mL	d5-NEtPFOSA	2000 ng/mL	
					PFC_ST_00429	0.4 mL	d3-NMePFOSA	2000 ng/mL	
					PFC_ST_00430	0.4 mL	M2-4:2 FTS	1868 ng/mL	
					PFC_ST_00431	0.4 mL	M2-6:2 FTS	1900 ng/mL	
					PFC_ST_00432	0.4 mL	M2-8:2 FTS	1916 ng/mL	
					PFC_ST_00433	0.4 mL	13C8 FOSA	2000 ng/mL	
					PFC_ST_00434	0.4 mL	d7-N-MeFOSE-M	2000 ng/mL	
					PFC_ST_00435	0.4 mL	d9-N-EtFOSE-M	2000 ng/mL	
					PFC_ST_00436	0.4 mL	13C3 HFPO-DA	2000 ng/mL	
..PFC_ST_00426	12/02/24		Wellington Laboratories, Lot d3NMeFOSAA1119				(Purchased Reagent)	d3-NMeFOSAA	50000 ng/mL
..PFC_ST_00427	05/20/25		Wellington Laboratories, Lot d5NEtFOSAA0520				(Purchased Reagent)	d5-NEtFOSAA	50000 ng/mL
..PFC_ST_00428	05/20/25		Wellington Laboratories, Lot dNEtFOSA0520M				(Purchased Reagent)	d5-NEtPFOSA	50000 ng/mL
..PFC_ST_00429	11/21/24		Wellington Laboratories, Lot dNMeFOSA1119M				(Purchased Reagent)	d3-NMePFOSA	50000 ng/mL
..PFC ST 00430	04/16/25		Wellington Laboratories, Lot M242FTS0420				(Purchased Reagent)	M2-4:2 FTS	46700 ng/mL
..PFC ST 00431	05/20/25		Wellington Laboratories, Lot M262FTS0520				(Purchased Reagent)	M2-6:2 FTS	47500 ng/mL
..PFC ST 00432	03/18/25		Wellington Laboratories, Lot M282FTS0320				(Purchased Reagent)	M2-8:2 FTS	47900 ng/mL
..PFC ST 00433	02/28/25		Wellington Laboratories, Lot M8FOSA0220I				(Purchased Reagent)	13C8 FOSA	50000 ng/mL
..PFC_ST_00434	12/16/24		Wellington Laboratories, Lot d7NMeFOSE1119M				(Purchased Reagent)	d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_00435	12/16/24		Wellington Laboratories, Lot d9NEtFOSE1119M				(Purchased Reagent)	d9-N-EtFOSE-M	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_00436	05/13/23		Wellington Laboratories, Lot M3HFPODA0520		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_ST_00454	05/04/25		Wellington Laboratories, Lot MPFACCES1019		(Purchased Reagent)		13C2 PFTeDA	2000 ng/mL
							13C2-PFDoDA	2000 ng/mL
							13C3 PFBS	1872 ng/mL
							13C3 PFHxS	1892 ng/mL
							13C4 PFBA	2000 ng/mL
							13C4 PFHpA	2000 ng/mL
							13C5 PFHxA	2000 ng/mL
							13C5 PFPeA	2000 ng/mL
							13C6 PFDA	2000 ng/mL
							13C7 PFUnA	2000 ng/mL
							13C8 PFOA	2000 ng/mL
							13C8 PFOS	1913 ng/mL
							13C9 PFNA	2000 ng/mL
PFC_SS_MODX_00033	12/01/20	08/31/20	Methanol, Lot DX851-US	20 mL	PFC_IN_00230	4 mL	d3-NMeFOSAA	400 ng/mL
							d5-NEtFOSAA	400 ng/mL
							d5-NEtPFOSA	400 ng/mL
							d3-NMePFOSA	400 ng/mL
							M2-4:2 FTS	373.6 ng/mL
							M2-6:2 FTS	380 ng/mL
							M2-8:2 FTS	383.2 ng/mL
							13C8 FOSA	400 ng/mL
							d7-N-MeFOSE-M	400 ng/mL
							d9-N-EtFOSE-M	400 ng/mL
					PFC_ST_00454	4 mL	13C3 HFPO-DA	400 ng/mL
							13C2 PFTeDA	400 ng/mL
							13C2-PFDoDA	400 ng/mL
							13C3 PFBS	374.4 ng/mL
							13C3 PFHxS	378.4 ng/mL
							13C4 PFBA	400 ng/mL
							13C4 PFHpA	400 ng/mL
							13C5 PFHxA	400 ng/mL
							13C5 PFPeA	400 ng/mL
							13C6 PFDA	400 ng/mL
13C7 PFUnA	400 ng/mL							
13C8 PFOA	400 ng/mL							
13C8 PFOS	382.6 ng/mL							
13C9 PFNA	400 ng/mL							
.PFC_IN_00230	12/01/20	08/31/20	Methanol, Lot DZ176-US	10 mL	PFC_ST_00464	0.4 mL	d3-NMeFOSAA	2000 ng/mL
					PFC_ST_00465	0.4 mL	d5-NEtFOSAA	2000 ng/mL
					PFC_ST_00466	0.4 mL	d5-NEtPFOSA	2000 ng/mL
					PFC_ST_00467	0.4 mL	d3-NMePFOSA	2000 ng/mL
					PFC_ST_00468	0.4 mL	M2-4:2 FTS	1868 ng/mL
					PFC_ST_00469	0.4 mL	M2-6:2 FTS	1900 ng/mL
					PFC_ST_00470	0.4 mL	M2-8:2 FTS	1916 ng/mL
					PFC_ST_00471	0.4 mL	13C8 FOSA	2000 ng/mL
					PFC_ST_00472	0.4 mL	d7-N-MeFOSE-M	2000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_00473	0.4 mL	d9-N-EtFOSE-M	2000 ng/mL
					PFC_ST_00474	0.4 mL	13C3 HFPO-DA	2000 ng/mL
..PFC_ST_00464	12/02/24		Wellington Laboratories, Lot d3NMeFOSAA1119		(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_00465	05/20/25		Wellington Laboratories, Lot d5NEtFOSAA0520		(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
..PFC_ST_00466	05/20/25		Wellington Laboratories, Lot dNEtFOSA0520M		(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_00467	08/06/25		Wellington Laboratories, Lot dNMeFOSA0820M		(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC_ST_00468	04/16/25		Wellington Laboratories, Lot M242FTS0420		(Purchased Reagent)		M2-4:2 FTS	46700 ng/mL
..PFC_ST_00469	05/20/25		Wellington Laboratories, Lot M262FTS0520		(Purchased Reagent)		M2-6:2 FTS	47500 ng/mL
..PFC_ST_00470	03/18/25		Wellington Laboratories, Lot M282FTS0320		(Purchased Reagent)		M2-8:2 FTS	47900 ng/mL
..PFC_ST_00471	02/28/25		Wellington Laboratories, Lot M8FOSA0220I		(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_00472	12/16/24		Wellington Laboratories, Lot d7NMeFOSE1119M		(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_00473	12/16/24		Wellington Laboratories, Lot d9NEtFOSE1119M		(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/mL
..PFC_ST_00474	05/13/23		Wellington Laboratories, Lot M3HFPODA0520		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
..PFC_ST_00454	05/04/25		Wellington Laboratories, Lot MPFACCES1019		(Purchased Reagent)		13C2 PFTeDA	2000 ng/mL
							13C2-PFDoDA	2000 ng/mL
							13C3 PFBS	1872 ng/mL
							13C3 PFHxS	1892 ng/mL
							13C4 PFBA	2000 ng/mL
							13C4 PFHpA	2000 ng/mL
							13C5 PFHxA	2000 ng/mL
							13C5 PFPeA	2000 ng/mL
							13C6 PFDA	2000 ng/mL
							13C7 PFUnA	2000 ng/mL
							13C8 PFOA	2000 ng/mL
							13C8 PFOS	1913 ng/mL
							13C9 PFNA	2000 ng/mL
PFC_STD_MOD1_00019	11/11/20	08/26/20	Methanol, Lot DX851-US	10 mL	PFC_IN_00213	0.05 mL	d3-NMeFOSAA	10 ng/mL
							d5-NEtFOSAA	10 ng/mL
							d5-NEtPFOSA	10 ng/mL
							d3-NMePFOSA	10 ng/mL
							M2-4:2 FTS	9.34 ng/mL
							M2-6:2 FTS	9.5 ng/mL
							M2-8:2 FTS	9.58 ng/mL
							13C8 FOSA	10 ng/mL
							d7-N-MeFOSE-M	10 ng/mL
							d9-N-EtFOSE-M	10 ng/mL
							13C3 HFPO-DA	10 ng/mL
					PFC_IN_00215	0.1 mL	11C1-PF3OUdS	0.186 ng/mL
							9C1-PF3ONS	0.186 ng/mL
							DONA	0.189 ng/mL
							HFPODA	0.2 ng/mL
							NEtFOSAA	0.2 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							NMeFOSAA	0.2 ng/mL
							Perfluorobutanesulfonic acid	0.177 ng/mL
							Perfluorodecanoic acid	0.2 ng/mL
							Perfluorododecanoic acid	0.2 ng/mL
							Perfluoroheptanoic acid	0.2 ng/mL
							Perfluorohexanesulfonic acid	0.1824 ng/mL
							Perfluorohexanoic acid	0.2 ng/mL
							Perfluorononanoic acid	0.2 ng/mL
							Perfluorooctanesulfonic acid	0.1851 ng/mL
							Perfluorooctanoic acid	0.2 ng/mL
							Perfluorotetradecanoic acid	0.2 ng/mL
							Perfluorotridecanoic acid	0.2 ng/mL
							Perfluoroundecanoic acid	0.2 ng/mL
					PFC_IN_00221	0.1 mL	Perfluorododecanesulfonic acid (PFDoS)	0.1936 ng/mL
							Perfluorooctadecanoic acid	0.2 ng/mL
							Perfluorohexadecanoic acid	0.2 ng/mL
							Perfluorobutanoic acid	0.2 ng/mL
							Perfluorodecanesulfonic acid	0.1928 ng/mL
							Perfluoroheptanesulfonic acid	0.1904 ng/mL
							Perfluorononanesulfonic acid	0.192 ng/mL
							Perfluoropentanesulfonic acid	0.1876 ng/mL
							Perfluoropentanoic acid	0.2 ng/mL
							NEtFOSA	0.2 ng/mL
							NMeFOSA	0.2 ng/mL
							NEtFOSE	0.2 ng/mL
							NMeFOSE	0.2 ng/mL
							Perfluorooctanesulfonamide	0.2 ng/mL
							4:2 Fluorotelomer sulfonic acid	0.1868 ng/mL
							6:2 Fluorotelomer sulfonic acid	0.1896 ng/mL
							8:2 Fluorotelomer sulfonic acid	0.1916 ng/mL
							10:2 FTS	0.1928 ng/mL
					PFC_ST_00457	0.05 mL	13C2 PFTeDA	10 ng/mL
							13C2-PFDoDA	10 ng/mL
							13C3 PFBS	9.36 ng/mL
							13C3 PFHxS	9.46 ng/mL
							13C4 PFBA	10 ng/mL
							13C4 PFHpA	10 ng/mL
							13C5 PFHxA	10 ng/mL
							13C5 PFPeA	10 ng/mL
							13C6 PFDA	10 ng/mL
							13C7 PFUnA	10 ng/mL
							13C8 PFOA	10 ng/mL
							13C8 PFOS	9.565 ng/mL
							13C9 PFNA	10 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_00458	0.025 mL	13C2 PFDA	5 ng/mL
							13C2 PFOA	5 ng/mL
							13C3-PFBA	5 ng/mL
							13C4 PFOS	4.7825 ng/mL
.PFC_IN_00213	11/11/20	08/10/20	Methanol, Lot DY532-US	2 mL	PFC ST 00426	0.08 mL	d3-NMeFOSAA	2000 ng/mL
					PFC ST 00427	0.08 mL	d5-NEtFOSAA	2000 ng/mL
					PFC ST 00428	0.08 mL	d5-NEtPFOSA	2000 ng/mL
					PFC ST 00429	0.08 mL	d3-NMePFOSA	2000 ng/mL
					PFC ST 00430	0.08 mL	M2-4:2 FTS	1868 ng/mL
					PFC ST 00431	0.08 mL	M2-6:2 FTS	1900 ng/mL
					PFC ST 00432	0.08 mL	M2-8:2 FTS	1916 ng/mL
					PFC ST 00433	0.08 mL	13C8 FOSA	2000 ng/mL
					PFC ST 00434	0.08 mL	d7-N-MeFOSE-M	2000 ng/mL
					PFC ST 00435	0.08 mL	d9-N-EtFOSE-M	2000 ng/mL
					PFC ST 00436	0.08 mL	13C3 HFPO-DA	2000 ng/mL
..PFC_ST_00426	12/02/24		Wellington Laboratories, Lot d3NMeFOSAA1119		(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_00427	05/20/25		Wellington Laboratories, Lot d5NEtFOSAA0520		(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
..PFC_ST_00428	05/20/25		Wellington Laboratories, Lot dNEtFOSA0520M		(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_00429	11/21/24		Wellington Laboratories, Lot dNMeFOSA1119M		(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC ST 00430	04/16/25		Wellington Laboratories, Lot M242FTS0420		(Purchased Reagent)		M2-4:2 FTS	46700 ng/mL
..PFC ST 00431	05/20/25		Wellington Laboratories, Lot M262FTS0520		(Purchased Reagent)		M2-6:2 FTS	47500 ng/mL
..PFC ST 00432	03/18/25		Wellington Laboratories, Lot M282FTS0320		(Purchased Reagent)		M2-8:2 FTS	47900 ng/mL
..PFC ST 00433	02/28/25		Wellington Laboratories, Lot M8FOSA0220I		(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_00434	12/16/24		Wellington Laboratories, Lot d7NMeFOSE1119M		(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_00435	12/16/24		Wellington Laboratories, Lot d9NEtFOSE1119M		(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/mL
..PFC_ST_00436	05/13/23		Wellington Laboratories, Lot M3HFPODA0520		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_IN_00215	11/11/20	08/10/20	Methanol, Lot DY532-US	10 mL	PFC_ST_00453	0.1 mL	11C1-PF3OUds	18.6 ng/mL
							9C1-PF3ONS	18.6 ng/mL
							DONA	18.9 ng/mL
							HFPODA	20 ng/mL
							NEtFOSAA	20 ng/mL
							NMeFOSAA	20 ng/mL
							Perfluorobutanesulfonic acid	17.7 ng/mL
							Perfluorodecanoic acid	20 ng/mL
							Perfluorododecanoic acid	20 ng/mL
							Perfluoroheptanoic acid	20 ng/mL
							Perfluorohexanesulfonic acid	18.24 ng/mL
							Perfluorohexanoic acid	20 ng/mL
							Perfluorononanoic acid	20 ng/mL
							Perfluorooctanesulfonic acid	18.51 ng/mL
							Perfluorooctanoic acid	20 ng/mL
							Perfluorotetradecanoic acid	20 ng/mL
							Perfluorotridecanoic acid	20 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
..PFC_ST_00453	07/27/21		Wellington Laboratories, Lot 537PDSR10119			(Purchased Reagent)	Perfluoroundecanoic acid	20 ng/mL		
							11Cl-PF3OUdS	1860 ng/mL		
							9Cl-PF3ONS	1860 ng/mL		
							DONA	1890 ng/mL		
							HFPODA	2000 ng/mL		
							NEtFOSAA	2000 ng/mL		
							NMeFOSAA	2000 ng/mL		
							Perfluorobutanesulfonic acid	1770 ng/mL		
							Perfluorodecanoic acid	2000 ng/mL		
							Perfluorododecanoic acid	2000 ng/mL		
							Perfluoroheptanoic acid	2000 ng/mL		
							Perfluorohexanesulfonic acid	1824 ng/mL		
							Perfluorohexanoic acid	2000 ng/mL		
							Perfluorononanoic acid	2000 ng/mL		
							Perfluorooctanesulfonic acid	1851 ng/mL		
							Perfluorooctanoic acid	2000 ng/mL		
Perfluorotetradecanoic acid	2000 ng/mL									
Perfluorotridecanoic acid	2000 ng/mL									
Perfluoroundecanoic acid	2000 ng/mL									
.PFC_IN_00221	11/17/20	08/17/20	Methanol, Lot DY532-US	10 mL	PFC_IN_00220	0.1 mL	Perfluorododecanesulfonic acid (PFDoS)	19.36 ng/mL		
							Perfluorooctadecanoic acid	20 ng/mL		
							Perfluorohexadecanoic acid	20 ng/mL		
							Perfluorobutanoic acid	20 ng/mL		
							Perfluorodecanesulfonic acid	19.28 ng/mL		
							Perfluoroheptanesulfonic acid	19.04 ng/mL		
							Perfluorononanesulfonic acid	19.2 ng/mL		
							Perfluoropentanesulfonic acid	18.76 ng/mL		
							Perfluoropentanoic acid	20 ng/mL		
							NEtFOSA	20 ng/mL		
							NMeFOSA	20 ng/mL		
							NEtFOSE	20 ng/mL		
							NMeFOSE	20 ng/mL		
							Perfluorooctanesulfonamide	20 ng/mL		
							4:2 Fluorotelomer sulfonic acid	18.68 ng/mL		
							6:2 Fluorotelomer sulfonic acid	18.96 ng/mL		
8:2 Fluorotelomer sulfonic acid	19.16 ng/mL									
10:2 FTS	19.28 ng/mL									
..PFC_IN_00220	11/17/20	08/17/20	Methanol, Lot DY532-US	2 mL	PFC_ST_00307	0.08 mL	Perfluorododecanesulfonic acid (PFDoS)	1936 ng/mL		
							PFC_ST_00308	0.08 mL	Perfluorooctadecanoic acid	2000 ng/mL
							PFC_ST_00309	0.08 mL	Perfluorohexadecanoic acid	2000 ng/mL
							PFC_ST_00333	0.08 mL	Perfluorobutanoic acid	2000 ng/mL
							PFC_ST_00334	0.08 mL	Perfluorodecanesulfonic acid	1928 ng/mL
							PFC_ST_00335	0.08 mL	Perfluoroheptanesulfonic acid	1904 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_00336	0.08 mL	Perfluorononanesulfonic acid	1920 ng/mL
					PFC_ST_00337	0.08 mL	Perfluoropentanesulfonic acid	1876 ng/mL
					PFC_ST_00338	0.08 mL	Perfluoropentanoic acid	2000 ng/mL
					PFC_ST_00438	0.08 mL	NEtFOSA	2000 ng/mL
					PFC_ST_00439	0.08 mL	NMeFOSA	2000 ng/mL
					PFC_ST_00440	0.08 mL	NEtFOSE	2000 ng/mL
					PFC_ST_00441	0.08 mL	NMeFOSE	2000 ng/mL
					PFC_ST_00442	0.08 mL	Perfluorooctanesulfonamide	2000 ng/mL
					PFC_ST_00445	0.08 mL	4:2 Fluorotelomer sulfonic acid	1868 ng/mL
					PFC_ST_00446	0.08 mL	6:2 Fluorotelomer sulfonic acid	1896 ng/mL
					PFC_ST_00447	0.08 mL	8:2 Fluorotelomer sulfonic acid	1916 ng/mL
					PFC_ST_00448	0.08 mL	10:2 FTS	1928 ng/mL
...PFC_ST_00307	11/24/24	Wellington Laboratories, Lot LPFDoS1119			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48400 ng/mL
...PFC_ST_00308	05/02/24	Wellington Laboratories, Lot PFODA0419			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL
...PFC_ST_00309	03/11/24	Wellington Laboratories, Lot PFHxDA0319			(Purchased Reagent)		Perfluorohexadecanoic acid	50000 ng/mL
...PFC_ST_00333	11/15/24	Wellington Laboratories, Lot PFBA1119			(Purchased Reagent)		Perfluorobutanoic acid	50000 ng/mL
...PFC_ST_00334	11/14/24	Wellington Laboratories, Lot LPFDS1119			(Purchased Reagent)		Perfluorodecanesulfonic acid	48200 ng/mL
...PFC_ST_00335	01/21/25	Wellington Laboratories, Lot LPFHps0120			(Purchased Reagent)		Perfluoroheptanesulfonic acid	47600 ng/mL
...PFC_ST_00336	11/14/24	Wellington Laboratories, Lot LPFNS1119			(Purchased Reagent)		Perfluorononanesulfonic acid	48000 ng/mL
...PFC_ST_00337	07/08/24	Wellington Laboratories, Lot LPFPeS0619			(Purchased Reagent)		Perfluoropentanesulfonic acid	46900 ng/mL
...PFC_ST_00338	09/04/24	Wellington Laboratories, Lot PFPeA0919			(Purchased Reagent)		Perfluoropentanoic acid	50000 ng/mL
...PFC_ST_00438	02/21/25	Wellington Laboratories, Lot NEtFOSA0220M			(Purchased Reagent)		NEtFOSA	50000 ng/mL
...PFC_ST_00439	12/24/24	Wellington Laboratories, Lot NMeFOSA1219M			(Purchased Reagent)		NMeFOSA	50000 ng/mL
...PFC_ST_00440	01/06/25	Wellington Laboratories, Lot NEtFOSE1219M			(Purchased Reagent)		NEtFOSE	50000 ng/mL
...PFC_ST_00441	01/06/25	Wellington Laboratories, Lot NMeFOSE1219M			(Purchased Reagent)		NMeFOSE	50000 ng/mL
...PFC_ST_00442	09/12/24	Wellington Laboratories, Lot FOSA0919I			(Purchased Reagent)		Perfluorooctanesulfonamide	50000 ng/mL
...PFC_ST_00445	10/29/24	Wellington Laboratories, Lot 42FTS1019			(Purchased Reagent)		4:2 Fluorotelomer sulfonic acid	46700 ng/mL
...PFC_ST_00446	04/21/25	Wellington Laboratories, Lot 62FTS0919			(Purchased Reagent)		6:2 Fluorotelomer sulfonic acid	47400 ng/mL
...PFC_ST_00447	09/11/24	Wellington Laboratories, Lot 82FTS0919			(Purchased Reagent)		8:2 Fluorotelomer sulfonic acid	47900 ng/mL
...PFC_ST_00448	06/11/22	Wellington Laboratories, Lot 102FTS0619			(Purchased Reagent)		10:2 FTS	48200 ng/mL
.PFC_ST_00457	05/04/25	Wellington Laboratories, Lot MPFACCES1019			(Purchased Reagent)		13C2 PFTeDA	2000 ng/mL
							13C2-PFDoDA	2000 ng/mL
							13C3 PFBS	1872 ng/mL
							13C3 PFHxS	1892 ng/mL
							13C4 PFBA	2000 ng/mL
							13C4 PFHpA	2000 ng/mL
							13C5 PFHxA	2000 ng/mL
							13C5 PFPeA	2000 ng/mL
							13C6 PFDA	2000 ng/mL
							13C7 PFUnA	2000 ng/mL
							13C8 PFOA	2000 ng/mL
							13C8 PFOS	1913 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
.PFC_ST_00458	08/23/23	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C9 PFNA	2000 ng/mL		
							13C2 PFDA	2000 ng/mL		
							13C2 PFOA	2000 ng/mL		
							13C3-PFBA	2000 ng/mL		
							13C4 PFOS	1913 ng/mL		
PFC_STD_MOD2_00016	11/11/20	08/17/20	Methanol, Lot DX851-US	10 mL	PFC_IN_00213	0.05 mL	d3-NMeFOSAA	10 ng/mL		
							d5-NEtFOSAA	10 ng/mL		
							d5-NEtPFOSA	10 ng/mL		
							d3-NMePFOSA	10 ng/mL		
							M2-4:2 FTS	9.34 ng/mL		
							M2-6:2 FTS	9.5 ng/mL		
							M2-8:2 FTS	9.58 ng/mL		
							13C8 FOSA	10 ng/mL		
							d7-N-MeFOSE-M	10 ng/mL		
							d9-N-EtFOSE-M	10 ng/mL		
							13C3 HFPO-DA	10 ng/mL		
							PFC_IN_00215	0.25 mL	11C1-PF3OUdS	0.465 ng/mL
									9C1-PF3ONS	0.465 ng/mL
					DONA	0.4725 ng/mL				
					HFPODA	0.5 ng/mL				
					NEtFOSAA	0.5 ng/mL				
					NMeFOSAA	0.5 ng/mL				
					Perfluorobutanesulfonic acid	0.4425 ng/mL				
					Perfluorodecanoic acid	0.5 ng/mL				
					Perfluorododecanoic acid	0.5 ng/mL				
					Perfluoroheptanoic acid	0.5 ng/mL				
					Perfluorohexanesulfonic acid	0.456 ng/mL				
					Perfluorohexanoic acid	0.5 ng/mL				
					Perfluorononanoic acid	0.5 ng/mL				
					Perfluorooctanesulfonic acid	0.46275 ng/mL				
					Perfluorooctanoic acid	0.5 ng/mL				
					Perfluorotetradecanoic acid	0.5 ng/mL				
					Perfluorotridecanoic acid	0.5 ng/mL				
					Perfluoroundecanoic acid	0.5 ng/mL				
					PFC_IN_00221	0.25 mL	Perfluorododecanesulfonic acid (PFDoS)	0.484 ng/mL		
							Perfluorooctadecanoic acid	0.5 ng/mL		
							Perfluorohexadecanoic acid	0.5 ng/mL		
							Perfluorobutanoic acid	0.5 ng/mL		
							Perfluorodecanesulfonic acid	0.482 ng/mL		
							Perfluoroheptanesulfonic acid	0.476 ng/mL		
							Perfluorononanesulfonic acid	0.48 ng/mL		
							Perfluoropentanesulfonic acid	0.469 ng/mL		
Perfluoropentanoic acid	0.5 ng/mL									
NEtFOSA	0.5 ng/mL									
NMeFOSA	0.5 ng/mL									
NEtFOSE	0.5 ng/mL									
NMeFOSE	0.5 ng/mL									

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
							Perfluorooctanesulfonamide	0.5 ng/mL		
							4:2 Fluorotelomer sulfonic acid	0.467 ng/mL		
							6:2 Fluorotelomer sulfonic acid	0.474 ng/mL		
							8:2 Fluorotelomer sulfonic acid	0.479 ng/mL		
							10:2 FTS	0.482 ng/mL		
							PFC_ST_00457	0.05 mL	13C2 PFTeDA	10 ng/mL
									13C2-PFDoDA	10 ng/mL
									13C3 PFBS	9.36 ng/mL
									13C3 PFHxS	9.46 ng/mL
									13C4 PFBA	10 ng/mL
									13C4 PFHpA	10 ng/mL
									13C5 PFHxA	10 ng/mL
									13C5 PFPeA	10 ng/mL
									13C6 PFDA	10 ng/mL
									13C7 PFUnA	10 ng/mL
									13C8 PFOA	10 ng/mL
									13C8 PFOS	9.565 ng/mL
									13C9 PFNA	10 ng/mL
							PFC_ST_00458	0.025 mL	13C2 PFDA	5 ng/mL
	13C2 PFOA	5 ng/mL								
	13C3-PFBA	5 ng/mL								
	13C4 PFOS	4.7825 ng/mL								
.PFC_IN_00213	11/11/20	08/10/20	Methanol, Lot DY532-US	2 mL	PFC ST 00426	0.08 mL	d3-NMeFOSAA	2000 ng/mL		
					PFC ST 00427	0.08 mL	d5-NEtFOSAA	2000 ng/mL		
					PFC ST 00428	0.08 mL	d5-NEtPFOSA	2000 ng/mL		
					PFC ST 00429	0.08 mL	d3-NMePFOSA	2000 ng/mL		
					PFC ST 00430	0.08 mL	M2-4:2 FTS	1868 ng/mL		
					PFC ST 00431	0.08 mL	M2-6:2 FTS	1900 ng/mL		
					PFC ST 00432	0.08 mL	M2-8:2 FTS	1916 ng/mL		
					PFC ST 00433	0.08 mL	13C8 FOSA	2000 ng/mL		
					PFC ST 00434	0.08 mL	d7-N-MeFOSE-M	2000 ng/mL		
					PFC ST 00435	0.08 mL	d9-N-EtFOSE-M	2000 ng/mL		
PFC ST 00436	0.08 mL	13C3 HFPO-DA	2000 ng/mL							
..PFC_ST_00426	12/02/24		Wellington Laboratories, Lot d3NMeFOSAA1119			(Purchased Reagent)	d3-NMeFOSAA	50000 ng/mL		
..PFC_ST_00427	05/20/25		Wellington Laboratories, Lot d5NEtFOSAA0520			(Purchased Reagent)	d5-NEtFOSAA	50000 ng/mL		
..PFC_ST_00428	05/20/25		Wellington Laboratories, Lot dNEtFOSA0520M			(Purchased Reagent)	d5-NEtPFOSA	50000 ng/mL		
..PFC_ST_00429	11/21/24		Wellington Laboratories, Lot dNMeFOSA1119M			(Purchased Reagent)	d3-NMePFOSA	50000 ng/mL		
..PFC ST 00430	04/16/25		Wellington Laboratories, Lot M242FTS0420			(Purchased Reagent)	M2-4:2 FTS	46700 ng/mL		
..PFC ST 00431	05/20/25		Wellington Laboratories, Lot M262FTS0520			(Purchased Reagent)	M2-6:2 FTS	47500 ng/mL		
..PFC ST 00432	03/18/25		Wellington Laboratories, Lot M282FTS0320			(Purchased Reagent)	M2-8:2 FTS	47900 ng/mL		
..PFC ST 00433	02/28/25		Wellington Laboratories, Lot M8FOSA0220I			(Purchased Reagent)	13C8 FOSA	50000 ng/mL		

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_00434	12/16/24		Wellington Laboratories, Lot d7NMeFOSE1119M		(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_00435	12/16/24		Wellington Laboratories, Lot d9NEtFOSE1119M		(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/mL
..PFC ST 00436	05/13/23		Wellington Laboratories, Lot M3HFPODA0520		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_IN_00215	11/11/20	08/10/20	Methanol, Lot DY532-US	10 mL	PFC_ST_00453	0.1 mL	11Cl-PF3OUdS	18.6 ng/mL
							9Cl-PF3ONS	18.6 ng/mL
							DONA	18.9 ng/mL
							HFPODA	20 ng/mL
							NEtFOSAA	20 ng/mL
							NMeFOSAA	20 ng/mL
							Perfluorobutanesulfonic acid	17.7 ng/mL
							Perfluorodecanoic acid	20 ng/mL
							Perfluorododecanoic acid	20 ng/mL
							Perfluoroheptanoic acid	20 ng/mL
							Perfluorohexanesulfonic acid	18.24 ng/mL
							Perfluorohexanoic acid	20 ng/mL
							Perfluorononanoic acid	20 ng/mL
							Perfluorooctanesulfonic acid	18.51 ng/mL
							Perfluorooctanoic acid	20 ng/mL
							Perfluorotetradecanoic acid	20 ng/mL
							Perfluorotridecanoic acid	20 ng/mL
							Perfluoroundecanoic acid	20 ng/mL
..PFC_ST_00453	07/27/21		Wellington Laboratories, Lot 537PDSR10119		(Purchased Reagent)		11Cl-PF3OUdS	1860 ng/mL
							9Cl-PF3ONS	1860 ng/mL
							DONA	1890 ng/mL
							HFPODA	2000 ng/mL
							NEtFOSAA	2000 ng/mL
							NMeFOSAA	2000 ng/mL
							Perfluorobutanesulfonic acid	1770 ng/mL
							Perfluorodecanoic acid	2000 ng/mL
							Perfluorododecanoic acid	2000 ng/mL
							Perfluoroheptanoic acid	2000 ng/mL
							Perfluorohexanesulfonic acid	1824 ng/mL
							Perfluorohexanoic acid	2000 ng/mL
							Perfluorononanoic acid	2000 ng/mL
							Perfluorooctanesulfonic acid	1851 ng/mL
							Perfluorooctanoic acid	2000 ng/mL
							Perfluorotetradecanoic acid	2000 ng/mL
							Perfluorotridecanoic acid	2000 ng/mL
							Perfluoroundecanoic acid	2000 ng/mL
.PFC_IN_00221	11/17/20	08/17/20	Methanol, Lot DY532-US	10 mL	PFC_IN_00220	0.1 mL	Perfluorododecanesulfonic acid (PFDoS)	19.36 ng/mL
							Perfluorooctadecanoic acid	20 ng/mL
							Perfluorohexadecanoic acid	20 ng/mL
							Perfluorobutanoic acid	20 ng/mL
							Perfluorodecanesulfonic acid	19.28 ng/mL
							Perfluoroheptanesulfonic acid	19.04 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorononanesulfonic acid	19.2 ng/mL
							Perfluoropentanesulfonic acid	18.76 ng/mL
							Perfluoropentanoic acid	20 ng/mL
							NEtFOSA	20 ng/mL
							NMeFOSA	20 ng/mL
							NEtFOSE	20 ng/mL
							NMeFOSE	20 ng/mL
							Perfluorooctanesulfonamide	20 ng/mL
							4:2 Fluorotelomer sulfonic acid	18.68 ng/mL
							6:2 Fluorotelomer sulfonic acid	18.96 ng/mL
							8:2 Fluorotelomer sulfonic acid	19.16 ng/mL
							10:2 FTS	19.28 ng/mL
..PFC_IN_00220	11/17/20	08/17/20	Methanol, Lot DY532-US	2 mL	PFC_ST_00307	0.08 mL	Perfluorododecanesulfonic acid (PFDoS)	1936 ng/mL
					PFC ST 00308	0.08 mL	Perfluorooctadecanoic acid	2000 ng/mL
					PFC ST 00309	0.08 mL	Perfluorohexadecanoic acid	2000 ng/mL
					PFC ST 00333	0.08 mL	Perfluorobutanoic acid	2000 ng/mL
					PFC ST 00334	0.08 mL	Perfluorodecanesulfonic acid	1928 ng/mL
					PFC ST 00335	0.08 mL	Perfluoroheptanesulfonic acid	1904 ng/mL
					PFC ST 00336	0.08 mL	Perfluorononanesulfonic acid	1920 ng/mL
					PFC ST 00337	0.08 mL	Perfluoropentanesulfonic acid	1876 ng/mL
					PFC ST 00338	0.08 mL	Perfluoropentanoic acid	2000 ng/mL
					PFC ST 00438	0.08 mL	NEtFOSA	2000 ng/mL
					PFC ST 00439	0.08 mL	NMeFOSA	2000 ng/mL
					PFC ST 00440	0.08 mL	NEtFOSE	2000 ng/mL
					PFC ST 00441	0.08 mL	NMeFOSE	2000 ng/mL
					PFC ST 00442	0.08 mL	Perfluorooctanesulfonamide	2000 ng/mL
					PFC_ST_00445	0.08 mL	4:2 Fluorotelomer sulfonic acid	1868 ng/mL
					PFC_ST_00446	0.08 mL	6:2 Fluorotelomer sulfonic acid	1896 ng/mL
					PFC_ST_00447	0.08 mL	8:2 Fluorotelomer sulfonic acid	1916 ng/mL
					PFC ST 00448	0.08 mL	10:2 FTS	1928 ng/mL
...PFC_ST_00307	11/24/24		Wellington Laboratories, Lot LPFDoS1119			(Purchased Reagent)	Perfluorododecanesulfonic acid (PFDoS)	48400 ng/mL
...PFC ST 00308	05/02/24		Wellington Laboratories, Lot PFODA0419			(Purchased Reagent)	Perfluorooctadecanoic acid	50000 ng/mL
...PFC ST 00309	03/11/24		Wellington Laboratories, Lot PFHxDA0319			(Purchased Reagent)	Perfluorohexadecanoic acid	50000 ng/mL
...PFC ST 00333	11/15/24		Wellington Laboratories, Lot PFBA1119			(Purchased Reagent)	Perfluorobutanoic acid	50000 ng/mL
...PFC ST 00334	11/14/24		Wellington Laboratories, Lot LPFDS1119			(Purchased Reagent)	Perfluorodecanesulfonic acid	48200 ng/mL
...PFC ST 00335	01/21/25		Wellington Laboratories, Lot LPFHPS0120			(Purchased Reagent)	Perfluoroheptanesulfonic acid	47600 ng/mL
...PFC ST 00336	11/14/24		Wellington Laboratories, Lot LPFNS1119			(Purchased Reagent)	Perfluorononanesulfonic acid	48000 ng/mL
...PFC ST 00337	07/08/24		Wellington Laboratories, Lot LPFPeS0619			(Purchased Reagent)	Perfluoropentanesulfonic acid	46900 ng/mL
...PFC ST 00338	09/04/24		Wellington Laboratories, Lot PFPeA0919			(Purchased Reagent)	Perfluoropentanoic acid	50000 ng/mL
...PFC ST 00438	02/21/25		Wellington Laboratories, Lot NEtFOSA0220M			(Purchased Reagent)	NEtFOSA	50000 ng/mL
...PFC ST 00439	12/24/24		Wellington Laboratories, Lot NMeFOSA1219M			(Purchased Reagent)	NMeFOSA	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...PFC_ST_00440	01/06/25		Wellington Laboratories, Lot NETFOSE1219M		(Purchased Reagent)		NETFOSE	50000 ng/mL
...PFC_ST_00441	01/06/25		Wellington Laboratories, Lot NMeFOSE1219M		(Purchased Reagent)		NMeFOSE	50000 ng/mL
...PFC_ST_00442	09/12/24		Wellington Laboratories, Lot FOSA0919I		(Purchased Reagent)		Perfluorooctanesulfonamide	50000 ng/mL
...PFC_ST_00445	10/29/24		Wellington Laboratories, Lot 42FTS1019		(Purchased Reagent)		4:2 Fluorotelomer sulfonic acid	46700 ng/mL
...PFC_ST_00446	04/21/25		Wellington Laboratories, Lot 62FTS0919		(Purchased Reagent)		6:2 Fluorotelomer sulfonic acid	47400 ng/mL
...PFC_ST_00447	09/11/24		Wellington Laboratories, Lot 82FTS0919		(Purchased Reagent)		8:2 Fluorotelomer sulfonic acid	47900 ng/mL
...PFC_ST_00448	06/11/22		Wellington Laboratories, Lot 102FTS0619		(Purchased Reagent)		10:2 FTS	48200 ng/mL
.PFC_ST_00457	05/04/25		Wellington Laboratories, Lot MPFACCES1019		(Purchased Reagent)		13C2 PFTeDA	2000 ng/mL
							13C2-PFDoDA	2000 ng/mL
							13C3 PFBS	1872 ng/mL
							13C3 PFHxS	1892 ng/mL
							13C4 PFBA	2000 ng/mL
							13C4 PFHpA	2000 ng/mL
							13C5 PFHxA	2000 ng/mL
							13C5 PFPeA	2000 ng/mL
							13C6 PFDA	2000 ng/mL
							13C7 PFUnA	2000 ng/mL
							13C8 PFOA	2000 ng/mL
							13C8 PFOS	1913 ng/mL
							13C9 PFNA	2000 ng/mL
.PFC_ST_00458	08/23/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFDA	2000 ng/mL
							13C2 PFOA	2000 ng/mL
							13C3-PFBA	2000 ng/mL
							13C4 PFOS	1913 ng/mL
PFC_STD_MOD3_00015	11/11/20	08/17/20	Methanol, Lot DX851-US	10 mL	PFC_IN_00213	0.05 mL	d3-NMeFOSAA	10 ng/mL
							d5-NetFOSAA	10 ng/mL
							d5-NetPFOSA	10 ng/mL
							d3-NMePFOSA	10 ng/mL
							M2-4:2 FTS	9.34 ng/mL
							M2-6:2 FTS	9.5 ng/mL
							M2-8:2 FTS	9.58 ng/mL
							13C8 FOSA	10 ng/mL
							d7-N-MeFOSE-M	10 ng/mL
							d9-N-EtFOSE-M	10 ng/mL
					13C3 HFPO-DA	10 ng/mL		
					PFC_IN_00215	1 mL	11C1-PF3OUdS	1.86 ng/mL
							9C1-PF3ONS	1.86 ng/mL
							DONA	1.89 ng/mL
							HFPODA	2 ng/mL
							NEtFOSAA	2 ng/mL
							NMeFOSAA	2 ng/mL
							Perfluorobutanesulfonic acid	1.77 ng/mL
							Perfluorodecanoic acid	2 ng/mL
							Perfluorododecanoic acid	2 ng/mL
		Perfluoroheptanoic acid	2 ng/mL					

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorohexanesulfonic acid	1.824 ng/mL
							Perfluorohexanoic acid	2 ng/mL
							Perfluorononanoic acid	2 ng/mL
							Perfluorooctanesulfonic acid	1.851 ng/mL
							Perfluorooctanoic acid	2 ng/mL
							Perfluorotetradecanoic acid	2 ng/mL
							Perfluorotridecanoic acid	2 ng/mL
					Perfluoroundecanoic acid	2 ng/mL		
					PFC_IN_00221	1 mL	Perfluorododecanesulfonic acid (PFDoS)	1.936 ng/mL
							Perfluorooctadecanoic acid	2 ng/mL
							Perfluorohexadecanoic acid	2 ng/mL
							Perfluorobutanoic acid	2 ng/mL
							Perfluorodecanesulfonic acid	1.928 ng/mL
							Perfluoroheptanesulfonic acid	1.904 ng/mL
							Perfluorononanesulfonic acid	1.92 ng/mL
							Perfluoropentanesulfonic acid	1.876 ng/mL
							Perfluoropentanoic acid	2 ng/mL
							NEtFOSA	2 ng/mL
							NMeFOSA	2 ng/mL
							NEtFOSE	2 ng/mL
							NMeFOSE	2 ng/mL
							Perfluorooctanesulfonamide	2 ng/mL
							4:2 Fluorotelomer sulfonic acid	1.868 ng/mL
							6:2 Fluorotelomer sulfonic acid	1.896 ng/mL
					8:2 Fluorotelomer sulfonic acid	1.916 ng/mL		
					10:2 FTS	1.928 ng/mL		
					PFC_ST_00457	0.05 mL	13C2 PFTeDA	10 ng/mL
							13C2-PFDoDA	10 ng/mL
							13C3 PFBS	9.36 ng/mL
							13C3 PFHxS	9.46 ng/mL
							13C4 PFBA	10 ng/mL
							13C4 PFHpA	10 ng/mL
							13C5 PFHxA	10 ng/mL
13C5 PFPeA	10 ng/mL							
13C6 PFDA	10 ng/mL							
13C7 PFUnA	10 ng/mL							
13C8 PFOA	10 ng/mL							
13C8 PFOS	9.565 ng/mL							
13C9 PFNA	10 ng/mL							
PFC_ST_00458	0.025 mL	13C2 PFDA	5 ng/mL					
		13C2 PFOA	5 ng/mL					
		13C3-PFBA	5 ng/mL					
		13C4 PFOS	4.7825 ng/mL					
.PFC_IN_00213	11/11/20	08/10/20	Methanol, Lot DY532-US	2 mL	PFC_ST_00426	0.08 mL	d3-NMeFOSAA	2000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_00427	0.08 mL	d5-NETFOSAA	2000 ng/mL
					PFC_ST_00428	0.08 mL	d5-NETPFOSA	2000 ng/mL
					PFC_ST_00429	0.08 mL	d3-NMePFOSA	2000 ng/mL
					PFC_ST_00430	0.08 mL	M2-4:2 FTS	1868 ng/mL
					PFC_ST_00431	0.08 mL	M2-6:2 FTS	1900 ng/mL
					PFC_ST_00432	0.08 mL	M2-8:2 FTS	1916 ng/mL
					PFC_ST_00433	0.08 mL	13C8 FOSA	2000 ng/mL
					PFC_ST_00434	0.08 mL	d7-N-MeFOSE-M	2000 ng/mL
					PFC_ST_00435	0.08 mL	d9-N-EtFOSE-M	2000 ng/mL
					PFC_ST_00436	0.08 mL	13C3 HFPO-DA	2000 ng/mL
..PFC_ST_00426	12/02/24		Wellington Laboratories, Lot d3NMeFOSAA1119		(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_00427	05/20/25		Wellington Laboratories, Lot d5NEtFOSAA0520		(Purchased Reagent)		d5-NETFOSAA	50000 ng/mL
..PFC_ST_00428	05/20/25		Wellington Laboratories, Lot dNEtFOSA0520M		(Purchased Reagent)		d5-NETPFOSA	50000 ng/mL
..PFC_ST_00429	11/21/24		Wellington Laboratories, Lot dNMeFOSA1119M		(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC_ST_00430	04/16/25		Wellington Laboratories, Lot M242FTS0420		(Purchased Reagent)		M2-4:2 FTS	46700 ng/mL
..PFC_ST_00431	05/20/25		Wellington Laboratories, Lot M262FTS0520		(Purchased Reagent)		M2-6:2 FTS	47500 ng/mL
..PFC_ST_00432	03/18/25		Wellington Laboratories, Lot M282FTS0320		(Purchased Reagent)		M2-8:2 FTS	47900 ng/mL
..PFC_ST_00433	02/28/25		Wellington Laboratories, Lot M8FOSA0220I		(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_00434	12/16/24		Wellington Laboratories, Lot d7NMeFOSE1119M		(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_00435	12/16/24		Wellington Laboratories, Lot d9NEtFOSE1119M		(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/mL
..PFC_ST_00436	05/13/23		Wellington Laboratories, Lot M3HFPODA0520		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_IN_00215	11/11/20	08/10/20	Methanol, Lot DY532-US	10 mL	PFC_ST_00453	0.1 mL	11Cl-PF3OUdS	18.6 ng/mL
							9Cl-PF3ONS	18.6 ng/mL
							DONA	18.9 ng/mL
							HFPODA	20 ng/mL
							NEtFOSAA	20 ng/mL
							NMeFOSAA	20 ng/mL
							Perfluorobutanesulfonic acid	17.7 ng/mL
							Perfluorodecanoic acid	20 ng/mL
							Perfluorododecanoic acid	20 ng/mL
							Perfluoroheptanoic acid	20 ng/mL
							Perfluorohexanesulfonic acid	18.24 ng/mL
							Perfluorohexanoic acid	20 ng/mL
							Perfluorononanoic acid	20 ng/mL
							Perfluorooctanesulfonic acid	18.51 ng/mL
							Perfluorooctanoic acid	20 ng/mL
							Perfluorotetradecanoic acid	20 ng/mL
							Perfluorotridecanoic acid	20 ng/mL
							Perfluoroundecanoic acid	20 ng/mL
..PFC_ST_00453	07/27/21		Wellington Laboratories, Lot 537PDSR10119		(Purchased Reagent)		11Cl-PF3OUdS	1860 ng/mL
							9Cl-PF3ONS	1860 ng/mL
							DONA	1890 ng/mL
							HFPODA	2000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							NEtFOSAA	2000 ng/mL
							NMeFOSAA	2000 ng/mL
							Perfluorobutanesulfonic acid	1770 ng/mL
							Perfluorodecanoic acid	2000 ng/mL
							Perfluorododecanoic acid	2000 ng/mL
							Perfluoroheptanoic acid	2000 ng/mL
							Perfluorohexanesulfonic acid	1824 ng/mL
							Perfluorohexanoic acid	2000 ng/mL
							Perfluorononanoic acid	2000 ng/mL
							Perfluorooctanesulfonic acid	1851 ng/mL
							Perfluorooctanoic acid	2000 ng/mL
							Perfluorotetradecanoic acid	2000 ng/mL
							Perfluorotridecanoic acid	2000 ng/mL
							Perfluoroundecanoic acid	2000 ng/mL
.PFC_IN_00221	11/17/20	08/17/20	Methanol, Lot DY532-US	10 mL	PFC_IN_00220	0.1 mL	Perfluorododecanesulfonic acid (PFDoS)	19.36 ng/mL
							Perfluorooctadecanoic acid	20 ng/mL
							Perfluorohexadecanoic acid	20 ng/mL
							Perfluorobutanoic acid	20 ng/mL
							Perfluorodecanesulfonic acid	19.28 ng/mL
							Perfluoroheptanesulfonic acid	19.04 ng/mL
							Perfluorononanesulfonic acid	19.2 ng/mL
							Perfluoropentanesulfonic acid	18.76 ng/mL
							Perfluoropentanoic acid	20 ng/mL
							NEtFOSA	20 ng/mL
							NMeFOSA	20 ng/mL
							NEtFOSE	20 ng/mL
							NMeFOSE	20 ng/mL
							Perfluorooctanesulfonamide	20 ng/mL
							4:2 Fluorotelomer sulfonic acid	18.68 ng/mL
							6:2 Fluorotelomer sulfonic acid	18.96 ng/mL
							8:2 Fluorotelomer sulfonic acid	19.16 ng/mL
							10:2 FTS	19.28 ng/mL
..PFC_IN_00220	11/17/20	08/17/20	Methanol, Lot DY532-US	2 mL	PFC_ST_00307	0.08 mL	Perfluorododecanesulfonic acid (PFDoS)	1936 ng/mL
					PFC ST 00308	0.08 mL	Perfluorooctadecanoic acid	2000 ng/mL
					PFC ST 00309	0.08 mL	Perfluorohexadecanoic acid	2000 ng/mL
					PFC ST 00333	0.08 mL	Perfluorobutanoic acid	2000 ng/mL
					PFC ST 00334	0.08 mL	Perfluorodecanesulfonic acid	1928 ng/mL
					PFC ST 00335	0.08 mL	Perfluoroheptanesulfonic acid	1904 ng/mL
					PFC ST 00336	0.08 mL	Perfluorononanesulfonic acid	1920 ng/mL
					PFC ST 00337	0.08 mL	Perfluoropentanesulfonic acid	1876 ng/mL
					PFC ST 00338	0.08 mL	Perfluoropentanoic acid	2000 ng/mL
					PFC ST 00438	0.08 mL	NEtFOSA	2000 ng/mL
					PFC_ST_00439	0.08 mL	NMeFOSA	2000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_00440	0.08 mL	NETFOSE	2000 ng/mL
					PFC_ST_00441	0.08 mL	NMeFOSE	2000 ng/mL
					PFC_ST_00442	0.08 mL	Perfluorooctanesulfonamide	2000 ng/mL
					PFC_ST_00445	0.08 mL	4:2 Fluorotelomer sulfonic acid	1868 ng/mL
					PFC_ST_00446	0.08 mL	6:2 Fluorotelomer sulfonic acid	1896 ng/mL
					PFC_ST_00447	0.08 mL	8:2 Fluorotelomer sulfonic acid	1916 ng/mL
					PFC_ST_00448	0.08 mL	10:2 FTS	1928 ng/mL
...PFC_ST_00307	11/24/24	Wellington Laboratories, Lot LPFDoS1119			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48400 ng/mL
...PFC_ST_00308	05/02/24	Wellington Laboratories, Lot PFODA0419			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL
...PFC_ST_00309	03/11/24	Wellington Laboratories, Lot PFHxDA0319			(Purchased Reagent)		Perfluorohexadecanoic acid	50000 ng/mL
...PFC_ST_00333	11/15/24	Wellington Laboratories, Lot PFBA1119			(Purchased Reagent)		Perfluorobutanoic acid	50000 ng/mL
...PFC_ST_00334	11/14/24	Wellington Laboratories, Lot LPFDS1119			(Purchased Reagent)		Perfluorododecanesulfonic acid	48200 ng/mL
...PFC_ST_00335	01/21/25	Wellington Laboratories, Lot LPFHpS0120			(Purchased Reagent)		Perfluoroheptanesulfonic acid	47600 ng/mL
...PFC_ST_00336	11/14/24	Wellington Laboratories, Lot LPFNS1119			(Purchased Reagent)		Perfluorononanesulfonic acid	48000 ng/mL
...PFC_ST_00337	07/08/24	Wellington Laboratories, Lot LFPeS0619			(Purchased Reagent)		Perfluoropentanesulfonic acid	46900 ng/mL
...PFC_ST_00338	09/04/24	Wellington Laboratories, Lot PFPeA0919			(Purchased Reagent)		Perfluoropentanoic acid	50000 ng/mL
...PFC_ST_00438	02/21/25	Wellington Laboratories, Lot NETFOSA0220M			(Purchased Reagent)		NETFOSA	50000 ng/mL
...PFC_ST_00439	12/24/24	Wellington Laboratories, Lot NMeFOSA1219M			(Purchased Reagent)		NMeFOSA	50000 ng/mL
...PFC_ST_00440	01/06/25	Wellington Laboratories, Lot NETFOSE1219M			(Purchased Reagent)		NETFOSE	50000 ng/mL
...PFC_ST_00441	01/06/25	Wellington Laboratories, Lot NMeFOSE1219M			(Purchased Reagent)		NMeFOSE	50000 ng/mL
...PFC_ST_00442	09/12/24	Wellington Laboratories, Lot FOSA0919I			(Purchased Reagent)		Perfluorooctanesulfonamide	50000 ng/mL
...PFC_ST_00445	10/29/24	Wellington Laboratories, Lot 42FTS1019			(Purchased Reagent)		4:2 Fluorotelomer sulfonic acid	46700 ng/mL
...PFC_ST_00446	04/21/25	Wellington Laboratories, Lot 62FTS0919			(Purchased Reagent)		6:2 Fluorotelomer sulfonic acid	47400 ng/mL
...PFC_ST_00447	09/11/24	Wellington Laboratories, Lot 82FTS0919			(Purchased Reagent)		8:2 Fluorotelomer sulfonic acid	47900 ng/mL
...PFC_ST_00448	06/11/22	Wellington Laboratories, Lot 102FTS0619			(Purchased Reagent)		10:2 FTS	48200 ng/mL
.PFC_ST_00457	05/04/25	Wellington Laboratories, Lot MPFACCIS1019			(Purchased Reagent)		13C2 PFTeDA	2000 ng/mL
							13C2-PFDoDA	2000 ng/mL
							13C3 PFBS	1872 ng/mL
							13C3 PFHxS	1892 ng/mL
							13C4 PFBA	2000 ng/mL
							13C4 PFHpA	2000 ng/mL
							13C5 PFHxA	2000 ng/mL
							13C5 PFPeA	2000 ng/mL
							13C6 PFDA	2000 ng/mL
							13C7 PFUnA	2000 ng/mL
							13C8 PFOA	2000 ng/mL
							13C8 PFOS	1913 ng/mL
							13C9 PFNA	2000 ng/mL
.PFC_ST_00458	08/23/23	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFDA	2000 ng/mL
							13C2 PFOA	2000 ng/mL
							13C3-PFBA	2000 ng/mL
							13C4 PFOS	1913 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
PFC_STD_MOD4_00013	11/11/20	08/14/20	Methanol, Lot DX851-US	10 mL	PFC_IN_00213	0.05 mL	d3-NMeFOSAA	10 ng/mL
							d5-NEtFOSAA	10 ng/mL
							d5-NEtPFOSA	10 ng/mL
							d3-NMePFOSA	10 ng/mL
							M2-4:2 FTS	9.34 ng/mL
							M2-6:2 FTS	9.5 ng/mL
							M2-8:2 FTS	9.58 ng/mL
							13C8 FOSA	10 ng/mL
							d7-N-MeFOSE-M	10 ng/mL
							d9-N-EtFOSE-M	10 ng/mL
							13C3 HFPO-DA	10 ng/mL
							PFC_IN_00214	0.04 mL
					Perfluorooctadecanoic acid	8 ng/mL		
					Perfluorohexadecanoic acid	8 ng/mL		
					Perfluorobutanoic acid	8 ng/mL		
					Perfluorodecanesulfonic acid	7.712 ng/mL		
					Perfluoroheptanesulfonic acid	7.616 ng/mL		
					Perfluorononanesulfonic acid	7.68 ng/mL		
					Perfluoropentanesulfonic acid	7.504 ng/mL		
					Perfluoropentanoic acid	8 ng/mL		
					NEtFOSA	8 ng/mL		
					NMeFOSA	8 ng/mL		
					NEtFOSE	8 ng/mL		
					NMeFOSE	8 ng/mL		
					Perfluorooctanesulfonamide	8 ng/mL		
					4:2 Fluorotelomer sulfonic acid	7.472 ng/mL		
					6:2 Fluorotelomer sulfonic acid	7.584 ng/mL		
					8:2 Fluorotelomer sulfonic acid	7.664 ng/mL		
					PFC_ST_00456	0.04 mL		
							9Cl-PF3ONS	7.44 ng/mL
							DONA	7.56 ng/mL
							HFPODA	8 ng/mL
							NEtFOSAA	8 ng/mL
							NMeFOSAA	8 ng/mL
							Perfluorobutanesulfonic acid	7.08 ng/mL
							Perfluorodecanoic acid	8 ng/mL
							Perfluorododecanoic acid	8 ng/mL
							Perfluoroheptanoic acid	8 ng/mL
							Perfluorohexanesulfonic acid	7.296 ng/mL
							Perfluorohexanoic acid	8 ng/mL
					Perfluorononanoic acid	8 ng/mL		
					Perfluorooctanesulfonic acid	7.404 ng/mL		
Perfluorooctanoic acid	8 ng/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorotetradecanoic acid	8 ng/mL
							Perfluorotridecanoic acid	8 ng/mL
							Perfluoroundecanoic acid	8 ng/mL
					PFC_ST_00457	0.05 mL	13C2 PFTeDA	10 ng/mL
							13C2-PFDoDA	10 ng/mL
							13C3 PFBS	9.36 ng/mL
							13C3 PFHxS	9.46 ng/mL
							13C4 PFBA	10 ng/mL
							13C4 PFHpA	10 ng/mL
							13C5 PFHxA	10 ng/mL
							13C5 PFPeA	10 ng/mL
							13C6 PFDA	10 ng/mL
							13C7 PFUnA	10 ng/mL
							13C8 PFOA	10 ng/mL
							13C8 PFOS	9.565 ng/mL
							13C9 PFNA	10 ng/mL
					PFC_ST_00458	0.025 mL	13C2 PFDA	5 ng/mL
							13C2 PFOA	5 ng/mL
							13C3-PFBA	5 ng/mL
							13C4 PFOS	4.7825 ng/mL
.PFC_IN_00213	11/11/20	08/10/20	Methanol, Lot DY532-US	2 mL	PFC ST 00426	0.08 mL	d3-NMeFOSAA	2000 ng/mL
					PFC ST 00427	0.08 mL	d5-NEtFOSAA	2000 ng/mL
					PFC ST 00428	0.08 mL	d5-NEtPFOSA	2000 ng/mL
					PFC ST 00429	0.08 mL	d3-NMePFOSA	2000 ng/mL
					PFC ST 00430	0.08 mL	M2-4:2 FTS	1868 ng/mL
					PFC ST 00431	0.08 mL	M2-6:2 FTS	1900 ng/mL
					PFC ST 00432	0.08 mL	M2-8:2 FTS	1916 ng/mL
					PFC ST 00433	0.08 mL	13C8 FOSA	2000 ng/mL
					PFC ST 00434	0.08 mL	d7-N-MeFOSE-M	2000 ng/mL
					PFC ST 00435	0.08 mL	d9-N-EtFOSE-M	2000 ng/mL
					PFC ST 00436	0.08 mL	13C3 HFPO-DA	2000 ng/mL
..PFC_ST_00426	12/02/24		Wellington Laboratories, Lot d3NMeFOSAA1119		(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_00427	05/20/25		Wellington Laboratories, Lot d5NEtFOSAA0520		(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
..PFC_ST_00428	05/20/25		Wellington Laboratories, Lot dNEtFOSA0520M		(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_00429	11/21/24		Wellington Laboratories, Lot dNMeFOSA1119M		(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC ST 00430	04/16/25		Wellington Laboratories, Lot M242FTS0420		(Purchased Reagent)		M2-4:2 FTS	46700 ng/mL
..PFC ST 00431	05/20/25		Wellington Laboratories, Lot M262FTS0520		(Purchased Reagent)		M2-6:2 FTS	47500 ng/mL
..PFC ST 00432	03/18/25		Wellington Laboratories, Lot M282FTS0320		(Purchased Reagent)		M2-8:2 FTS	47900 ng/mL
..PFC ST 00433	02/28/25		Wellington Laboratories, Lot M8FOSA0220I		(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_00434	12/16/24		Wellington Laboratories, Lot d7NMeFOSE1119M		(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_00435	12/16/24		Wellington Laboratories, Lot d9NEtFOSE1119M		(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/mL
..PFC_ST_00436	05/13/23		Wellington Laboratories, Lot M3HFPODA0520		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.PFC_IN_00214	11/11/20	08/10/20	Methanol, Lot DY532-US	2 mL	PFC_ST_00307	0.08 mL	Perfluorododecanesulfonic acid (PFDoS)	1936 ng/mL
					PFC ST 00308	0.08 mL	Perfluorooctadecanoic acid	2000 ng/mL
					PFC ST 00309	0.08 mL	Perfluorohexadecanoic acid	2000 ng/mL
					PFC ST 00333	0.08 mL	Perfluorobutanoic acid	2000 ng/mL
					PFC ST 00334	0.08 mL	Perfluorodecanesulfonic acid	1928 ng/mL
					PFC ST 00335	0.08 mL	Perfluoroheptanesulfonic acid	1904 ng/mL
					PFC ST 00336	0.08 mL	Perfluorononanesulfonic acid	1920 ng/mL
					PFC ST 00337	0.08 mL	Perfluoropentanesulfonic acid	1876 ng/mL
					PFC ST 00338	0.08 mL	Perfluoropentanoic acid	2000 ng/mL
					PFC ST 00438	0.08 mL	NEtFOSA	2000 ng/mL
					PFC ST 00439	0.08 mL	NMeFOSA	2000 ng/mL
					PFC ST 00440	0.08 mL	NEtFOSE	2000 ng/mL
					PFC ST 00441	0.08 mL	NMeFOSE	2000 ng/mL
					PFC ST 00442	0.08 mL	Perfluorooctanesulfonamide	2000 ng/mL
					PFC_ST_00445	0.08 mL	4:2 Fluorotelomer sulfonic acid	1868 ng/mL
PFC_ST_00446	0.08 mL	6:2 Fluorotelomer sulfonic acid	1896 ng/mL					
PFC_ST_00447	0.08 mL	8:2 Fluorotelomer sulfonic acid	1916 ng/mL					
PFC ST 00448	0.08 mL	10:2 FTS	1928 ng/mL					
..PFC_ST_00307	11/24/24	Wellington Laboratories, Lot LPFDoS1119			(Purchased Reagent)	Perfluorododecanesulfonic acid (PFDoS)	48400 ng/mL	
..PFC ST 00308	05/02/24	Wellington Laboratories, Lot PFODA0419			(Purchased Reagent)	Perfluorooctadecanoic acid	50000 ng/mL	
..PFC ST 00309	03/11/24	Wellington Laboratories, Lot PFHxDA0319			(Purchased Reagent)	Perfluorohexadecanoic acid	50000 ng/mL	
..PFC ST 00333	11/15/24	Wellington Laboratories, Lot PFBA1119			(Purchased Reagent)	Perfluorobutanoic acid	50000 ng/mL	
..PFC ST 00334	11/14/24	Wellington Laboratories, Lot LPFDS1119			(Purchased Reagent)	Perfluorodecanesulfonic acid	48200 ng/mL	
..PFC ST 00335	01/21/25	Wellington Laboratories, Lot LPFHpS0120			(Purchased Reagent)	Perfluoroheptanesulfonic acid	47600 ng/mL	
..PFC ST 00336	11/14/24	Wellington Laboratories, Lot LPFNS1119			(Purchased Reagent)	Perfluorononanesulfonic acid	48000 ng/mL	
..PFC ST 00337	07/08/24	Wellington Laboratories, Lot LPFPeS0619			(Purchased Reagent)	Perfluoropentanesulfonic acid	46900 ng/mL	
..PFC ST 00338	09/04/24	Wellington Laboratories, Lot PFPeA0919			(Purchased Reagent)	Perfluoropentanoic acid	50000 ng/mL	
..PFC ST 00438	02/21/25	Wellington Laboratories, Lot NEtFOSA0220M			(Purchased Reagent)	NEtFOSA	50000 ng/mL	
..PFC ST 00439	12/24/24	Wellington Laboratories, Lot NMeFOSA1219M			(Purchased Reagent)	NMeFOSA	50000 ng/mL	
..PFC ST 00440	01/06/25	Wellington Laboratories, Lot NEtFOSE1219M			(Purchased Reagent)	NEtFOSE	50000 ng/mL	
..PFC ST 00441	01/06/25	Wellington Laboratories, Lot NMeFOSE1219M			(Purchased Reagent)	NMeFOSE	50000 ng/mL	
..PFC ST 00442	09/12/24	Wellington Laboratories, Lot FOSA0919I			(Purchased Reagent)	Perfluorooctanesulfonamide	50000 ng/mL	
..PFC_ST_00445	10/29/24	Wellington Laboratories, Lot 42FTS1019			(Purchased Reagent)	4:2 Fluorotelomer sulfonic acid	46700 ng/mL	
..PFC_ST_00446	04/21/25	Wellington Laboratories, Lot 62FTS0919			(Purchased Reagent)	6:2 Fluorotelomer sulfonic acid	47400 ng/mL	
..PFC_ST_00447	09/11/24	Wellington Laboratories, Lot 82FTS0919			(Purchased Reagent)	8:2 Fluorotelomer sulfonic acid	47900 ng/mL	
..PFC ST 00448	06/11/22	Wellington Laboratories, Lot 102FTS0619			(Purchased Reagent)	10:2 FTS	48200 ng/mL	
.PFC_ST_00456	08/14/21	Wellington Laboratories, Lot 537PDSR10119			(Purchased Reagent)	11Cl-PF3OUdS	1860 ng/mL	
						9Cl-PF3ONS	1860 ng/mL	
						DONA	1890 ng/mL	
						HFPODA	2000 ng/mL	
						NEtFOSAA	2000 ng/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							NMeFOSAA	2000 ng/mL
							Perfluorobutanesulfonic acid	1770 ng/mL
							Perfluorodecanoic acid	2000 ng/mL
							Perfluorododecanoic acid	2000 ng/mL
							Perfluoroheptanoic acid	2000 ng/mL
							Perfluorohexanesulfonic acid	1824 ng/mL
							Perfluorohexanoic acid	2000 ng/mL
							Perfluorononanoic acid	2000 ng/mL
							Perfluorooctanesulfonic acid	1851 ng/mL
							Perfluorooctanoic acid	2000 ng/mL
							Perfluorotetradecanoic acid	2000 ng/mL
							Perfluorotridecanoic acid	2000 ng/mL
							Perfluoroundecanoic acid	2000 ng/mL
.PFC_ST_00457	05/04/25		Wellington Laboratories, Lot MPFACCES1019		(Purchased Reagent)		13C2 PFTeDA	2000 ng/mL
							13C2-PFDoDA	2000 ng/mL
							13C3 PFBS	1872 ng/mL
							13C3 PFHxS	1892 ng/mL
							13C4 PFBA	2000 ng/mL
							13C4 PFHpA	2000 ng/mL
							13C5 PFHxA	2000 ng/mL
							13C5 PFPeA	2000 ng/mL
							13C6 PFDA	2000 ng/mL
							13C7 PFUnA	2000 ng/mL
							13C8 PFOA	2000 ng/mL
							13C8 PFOS	1913 ng/mL
							13C9 PFNA	2000 ng/mL
.PFC_ST_00458	08/23/23		Wellington Laboratories, Lot MPFACCIS0516		(Purchased Reagent)		13C2 PFDA	2000 ng/mL
							13C2 PFOA	2000 ng/mL
							13C3-PFBA	2000 ng/mL
							13C4 PFOS	1913 ng/mL
PFC_STD_MOD5_00012	11/11/20	08/14/20	Methanol, Lot DX851-US	10 mL	PFC_IN_00213	0.05 mL	d3-NMeFOSAA	10 ng/mL
							d5-NetFOSAA	10 ng/mL
							d5-NetPFOSA	10 ng/mL
							d3-NMePFOSA	10 ng/mL
							M2-4:2 FTS	9.34 ng/mL
							M2-6:2 FTS	9.5 ng/mL
							M2-8:2 FTS	9.58 ng/mL
							13C8 FOSA	10 ng/mL
							d7-N-MeFOSE-M	10 ng/mL
							d9-N-EtFOSE-M	10 ng/mL
							13C3 HFPO-DA	10 ng/mL
					PFC_IN_00214	0.1 mL	Perfluorododecanesulfonic acid (PFDoS)	19.36 ng/mL
							Perfluorooctadecanoic acid	20 ng/mL
							Perfluorohexadecanoic acid	20 ng/mL
							Perfluorobutanoic acid	20 ng/mL
							Perfluorodecanesulfonic acid	19.28 ng/mL
							Perfluoroheptanesulfonic acid	19.04 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorononanesulfonic acid	19.2 ng/mL
							Perfluoropentanesulfonic acid	18.76 ng/mL
							Perfluoropentanoic acid	20 ng/mL
							NEtFOSA	20 ng/mL
							NMeFOSA	20 ng/mL
							NEtFOSE	20 ng/mL
							NMeFOSE	20 ng/mL
							Perfluorooctanesulfonamide	20 ng/mL
							4:2 Fluorotelomer sulfonic acid	18.68 ng/mL
							6:2 Fluorotelomer sulfonic acid	18.96 ng/mL
							8:2 Fluorotelomer sulfonic acid	19.16 ng/mL
							10:2 FTS	19.28 ng/mL
					PFC_ST_00456	0.1 mL	11Cl-PF3OUdS	18.6 ng/mL
							9Cl-PF3ONS	18.6 ng/mL
							DONA	18.9 ng/mL
							HFPODA	20 ng/mL
							NEtFOSAA	20 ng/mL
							NMeFOSAA	20 ng/mL
							Perfluorobutanesulfonic acid	17.7 ng/mL
							Perfluorodecanoic acid	20 ng/mL
							Perfluorododecanoic acid	20 ng/mL
							Perfluoroheptanoic acid	20 ng/mL
							Perfluorohexanesulfonic acid	18.24 ng/mL
							Perfluorohexanoic acid	20 ng/mL
							Perfluorononanoic acid	20 ng/mL
							Perfluorooctanesulfonic acid	18.51 ng/mL
							Perfluorooctanoic acid	20 ng/mL
							Perfluorotetradecanoic acid	20 ng/mL
							Perfluorotridecanoic acid	20 ng/mL
							Perfluoroundecanoic acid	20 ng/mL
					PFC_ST_00457	0.05 mL	13C2 PFTeDA	10 ng/mL
							13C2-PFDoDA	10 ng/mL
							13C3 PFBS	9.36 ng/mL
							13C3 PFHxS	9.46 ng/mL
							13C4 PFBA	10 ng/mL
							13C4 PFHpA	10 ng/mL
							13C5 PFHxA	10 ng/mL
							13C5 PFPeA	10 ng/mL
							13C6 PFDA	10 ng/mL
							13C7 PFUnA	10 ng/mL
							13C8 PFOA	10 ng/mL
							13C8 PFOS	9.565 ng/mL
							13C9 PFNA	10 ng/mL
					PFC_ST_00458	0.025 mL	13C2 PFDA	5 ng/mL
							13C2 PFOA	5 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							13C3-PFBA	5 ng/mL
							13C4 PFOS	4.7825 ng/mL
.PFC_IN_00213	11/11/20	08/10/20	Methanol, Lot DY532-US	2 mL	PFC ST 00426	0.08 mL	d3-NMeFOSAA	2000 ng/mL
					PFC ST 00427	0.08 mL	d5-NEtFOSAA	2000 ng/mL
					PFC ST 00428	0.08 mL	d5-NEtPFOSA	2000 ng/mL
					PFC ST 00429	0.08 mL	d3-NMePFOSA	2000 ng/mL
					PFC ST 00430	0.08 mL	M2-4:2 FTS	1868 ng/mL
					PFC ST 00431	0.08 mL	M2-6:2 FTS	1900 ng/mL
					PFC ST 00432	0.08 mL	M2-8:2 FTS	1916 ng/mL
					PFC ST 00433	0.08 mL	13C8 FOSA	2000 ng/mL
					PFC ST 00434	0.08 mL	d7-N-MeFOSE-M	2000 ng/mL
					PFC ST 00435	0.08 mL	d9-N-EtFOSE-M	2000 ng/mL
					PFC ST 00436	0.08 mL	13C3 HFPO-DA	2000 ng/mL
..PFC_ST_00426	12/02/24		Wellington Laboratories, Lot d3NMeFOSAA1119		(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_00427	05/20/25		Wellington Laboratories, Lot d5NEtFOSAA0520		(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
..PFC_ST_00428	05/20/25		Wellington Laboratories, Lot dNEtFOSA0520M		(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_00429	11/21/24		Wellington Laboratories, Lot dNMeFOSA1119M		(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC ST 00430	04/16/25		Wellington Laboratories, Lot M242FTS0420		(Purchased Reagent)		M2-4:2 FTS	46700 ng/mL
..PFC ST 00431	05/20/25		Wellington Laboratories, Lot M262FTS0520		(Purchased Reagent)		M2-6:2 FTS	47500 ng/mL
..PFC ST 00432	03/18/25		Wellington Laboratories, Lot M282FTS0320		(Purchased Reagent)		M2-8:2 FTS	47900 ng/mL
..PFC ST 00433	02/28/25		Wellington Laboratories, Lot M8FOSA0220I		(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_00434	12/16/24		Wellington Laboratories, Lot d7NMeFOSE1119M		(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_00435	12/16/24		Wellington Laboratories, Lot d9NEtFOSE1119M		(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/mL
..PFC_ST_00436	05/13/23		Wellington Laboratories, Lot M3HFPODA0520		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_IN_00214	11/11/20	08/10/20	Methanol, Lot DY532-US	2 mL	PFC_ST_00307	0.08 mL	Perfluorododecanesulfonic acid (PFDoS)	1936 ng/mL
					PFC ST 00308	0.08 mL	Perfluorooctadecanoic acid	2000 ng/mL
					PFC ST 00309	0.08 mL	Perfluorohexadecanoic acid	2000 ng/mL
					PFC ST 00333	0.08 mL	Perfluorobutanoic acid	2000 ng/mL
					PFC ST 00334	0.08 mL	Perfluorodecanesulfonic acid	1928 ng/mL
					PFC ST 00335	0.08 mL	Perfluoroheptanesulfonic acid	1904 ng/mL
					PFC ST 00336	0.08 mL	Perfluorononanesulfonic acid	1920 ng/mL
					PFC ST 00337	0.08 mL	Perfluoropentanesulfonic acid	1876 ng/mL
					PFC ST 00338	0.08 mL	Perfluoropentanoic acid	2000 ng/mL
					PFC ST 00438	0.08 mL	NEtFOSA	2000 ng/mL
					PFC ST 00439	0.08 mL	NMeFOSA	2000 ng/mL
					PFC ST 00440	0.08 mL	NEtFOSE	2000 ng/mL
					PFC ST 00441	0.08 mL	NMeFOSE	2000 ng/mL
					PFC ST 00442	0.08 mL	Perfluorooctanesulfonamide	2000 ng/mL
					PFC_ST_00445	0.08 mL	4:2 Fluorotelomer sulfonic acid	1868 ng/mL
					PFC_ST_00446	0.08 mL	6:2 Fluorotelomer sulfonic acid	1896 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_00447	0.08 mL	8:2 Fluorotelomer sulfonic acid	1916 ng/mL
					PFC ST 00448	0.08 mL	10:2 FTS	1928 ng/mL
..PFC_ST_00307	11/24/24	Wellington Laboratories, Lot LPFDoS1119			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48400 ng/mL
..PFC ST 00308	05/02/24	Wellington Laboratories, Lot PFODA0419			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL
..PFC ST 00309	03/11/24	Wellington Laboratories, Lot PFHxDA0319			(Purchased Reagent)		Perfluorohexadecanoic acid	50000 ng/mL
..PFC ST 00333	11/15/24	Wellington Laboratories, Lot PFBA1119			(Purchased Reagent)		Perfluorobutanoic acid	50000 ng/mL
..PFC ST 00334	11/14/24	Wellington Laboratories, Lot LPFDS1119			(Purchased Reagent)		Perfluorodecanesulfonic acid	48200 ng/mL
..PFC ST 00335	01/21/25	Wellington Laboratories, Lot LPFHpS0120			(Purchased Reagent)		Perfluoroheptanesulfonic acid	47600 ng/mL
..PFC ST 00336	11/14/24	Wellington Laboratories, Lot LPFNS1119			(Purchased Reagent)		Perfluorononanesulfonic acid	48000 ng/mL
..PFC ST 00337	07/08/24	Wellington Laboratories, Lot LPFPeS0619			(Purchased Reagent)		Perfluoropentanesulfonic acid	46900 ng/mL
..PFC ST 00338	09/04/24	Wellington Laboratories, Lot PFPeA0919			(Purchased Reagent)		Perfluoropentanoic acid	50000 ng/mL
..PFC ST 00438	02/21/25	Wellington Laboratories, Lot NETFOSA0220M			(Purchased Reagent)		NETFOSA	50000 ng/mL
..PFC ST 00439	12/24/24	Wellington Laboratories, Lot NMeFOSA1219M			(Purchased Reagent)		NMeFOSA	50000 ng/mL
..PFC ST 00440	01/06/25	Wellington Laboratories, Lot NETFOSE1219M			(Purchased Reagent)		NETFOSE	50000 ng/mL
..PFC ST 00441	01/06/25	Wellington Laboratories, Lot NMeFOSE1219M			(Purchased Reagent)		NMeFOSE	50000 ng/mL
..PFC ST 00442	09/12/24	Wellington Laboratories, Lot FOSA0919I			(Purchased Reagent)		Perfluorooctanesulfonamide	50000 ng/mL
..PFC_ST_00445	10/29/24	Wellington Laboratories, Lot 42FTS1019			(Purchased Reagent)		4:2 Fluorotelomer sulfonic acid	46700 ng/mL
..PFC_ST_00446	04/21/25	Wellington Laboratories, Lot 62FTS0919			(Purchased Reagent)		6:2 Fluorotelomer sulfonic acid	47400 ng/mL
..PFC_ST_00447	09/11/24	Wellington Laboratories, Lot 82FTS0919			(Purchased Reagent)		8:2 Fluorotelomer sulfonic acid	47900 ng/mL
..PFC ST 00448	06/11/22	Wellington Laboratories, Lot 102FTS0619			(Purchased Reagent)		10:2 FTS	48200 ng/mL
.PFC_ST_00456	08/14/21	Wellington Laboratories, Lot 537PDSR10119			(Purchased Reagent)		11Cl-PF3OUdS	1860 ng/mL
							9Cl-PF3ONS	1860 ng/mL
							DONA	1890 ng/mL
							HFPODA	2000 ng/mL
							NETFOSAA	2000 ng/mL
							NMeFOSAA	2000 ng/mL
							Perfluorobutanesulfonic acid	1770 ng/mL
							Perfluorodecanoic acid	2000 ng/mL
							Perfluorododecanoic acid	2000 ng/mL
							Perfluoroheptanoic acid	2000 ng/mL
							Perfluorohexanesulfonic acid	1824 ng/mL
							Perfluorohexanoic acid	2000 ng/mL
							Perfluorononanoic acid	2000 ng/mL
							Perfluorooctanesulfonic acid	1851 ng/mL
							Perfluorooctanoic acid	2000 ng/mL
							Perfluorotetradecanoic acid	2000 ng/mL
							Perfluorotridecanoic acid	2000 ng/mL
							Perfluoroundecanoic acid	2000 ng/mL
.PFC_ST_00457	05/04/25	Wellington Laboratories, Lot MPFACCES1019			(Purchased Reagent)		13C2 PFTeDA	2000 ng/mL
							13C2-PFDoDA	2000 ng/mL
							13C3 PFBS	1872 ng/mL
							13C3 PFHxS	1892 ng/mL
							13C4 PFBA	2000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
							13C4 PFHpA	2000 ng/mL		
							13C5 PFHxA	2000 ng/mL		
							13C5 PFPeA	2000 ng/mL		
							13C6 PFDA	2000 ng/mL		
							13C7 PFUnA	2000 ng/mL		
							13C8 PFOA	2000 ng/mL		
							13C8 PFOS	1913 ng/mL		
							13C9 PFNA	2000 ng/mL		
.PFC_ST_00458	08/23/23	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFDA	2000 ng/mL		
							13C2 PFOA	2000 ng/mL		
							13C3-PFBA	2000 ng/mL		
							13C4 PFOS	1913 ng/mL		
PFC_STD_MOD6_00012	11/11/20	08/14/20	Methanol, Lot DX851-US	10 mL	PFC_IN_00213	0.05 mL	d3-NMeFOSAA	10 ng/mL		
							d5-NEtFOSAA	10 ng/mL		
							d5-NEtPFOSA	10 ng/mL		
							d3-NMePFOSA	10 ng/mL		
							M2-4:2 FTS	9.34 ng/mL		
							M2-6:2 FTS	9.5 ng/mL		
							M2-8:2 FTS	9.58 ng/mL		
							13C8 FOSA	10 ng/mL		
							d7-N-MeFOSE-M	10 ng/mL		
							d9-N-EtFOSE-M	10 ng/mL		
							13C3 HFPO-DA	10 ng/mL		
							PFC_IN_00214	0.25 mL	Perfluorododecanesulfonic acid (PFDoS)	48.4 ng/mL
									Perfluorooctadecanoic acid	50 ng/mL
					Perfluorohexadecanoic acid	50 ng/mL				
					Perfluorobutanoic acid	50 ng/mL				
					Perfluorodecanesulfonic acid	48.2 ng/mL				
					Perfluoroheptanesulfonic acid	47.6 ng/mL				
					Perfluorononanesulfonic acid	48 ng/mL				
					Perfluoropentanesulfonic acid	46.9 ng/mL				
					Perfluoropentanoic acid	50 ng/mL				
					NEtFOSA	50 ng/mL				
					NMeFOSA	50 ng/mL				
					NEtFOSE	50 ng/mL				
					NMeFOSE	50 ng/mL				
					Perfluorooctanesulfonamide	50 ng/mL				
					4:2 Fluorotelomer sulfonic acid	46.7 ng/mL				
					6:2 Fluorotelomer sulfonic acid	47.4 ng/mL				
					8:2 Fluorotelomer sulfonic acid	47.9 ng/mL				
					10:2 FTS	48.2 ng/mL				
					PFC_ST_00456	0.25 mL	11Cl-PF3OUdS	46.5 ng/mL		
							9Cl-PF3ONS	46.5 ng/mL		
							DONA	47.25 ng/mL		

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							HFPODA	50 ng/mL
							NEtFOSAA	50 ng/mL
							NMeFOSAA	50 ng/mL
							Perfluorobutanesulfonic acid	44.25 ng/mL
							Perfluorodecanoic acid	50 ng/mL
							Perfluorododecanoic acid	50 ng/mL
							Perfluoroheptanoic acid	50 ng/mL
							Perfluorohexanesulfonic acid	45.6 ng/mL
							Perfluorohexanoic acid	50 ng/mL
							Perfluorononanoic acid	50 ng/mL
							Perfluorooctanesulfonic acid	46.275 ng/mL
							Perfluorooctanoic acid	50 ng/mL
							Perfluorotetradecanoic acid	50 ng/mL
							Perfluorotridecanoic acid	50 ng/mL
							Perfluoroundecanoic acid	50 ng/mL
					PFC_ST_00457	0.05 mL	13C2 PFTeDA	10 ng/mL
							13C2-PFDoDA	10 ng/mL
							13C3 PFBS	9.36 ng/mL
							13C3 PFHxS	9.46 ng/mL
							13C4 PFBA	10 ng/mL
							13C4 PFHpA	10 ng/mL
							13C5 PFHxA	10 ng/mL
							13C5 PFPeA	10 ng/mL
		13C6 PFDA	10 ng/mL					
		13C7 PFUnA	10 ng/mL					
		13C8 PFOA	10 ng/mL					
		13C8 PFOS	9.565 ng/mL					
		13C9 PFNA	10 ng/mL					
		PFC_ST_00458	0.025 mL					
		13C2 PFDA	5 ng/mL					
		13C2 PFOA	5 ng/mL					
		13C3-PFBA	5 ng/mL					
		13C4 PFOS	4.7825 ng/mL					
.PFC_IN_00213	11/11/20	08/10/20	Methanol, Lot DY532-US	2 mL	PFC ST 00426	0.08 mL	d3-NMeFOSAA	2000 ng/mL
					PFC ST 00427	0.08 mL	d5-NEtFOSAA	2000 ng/mL
					PFC ST 00428	0.08 mL	d5-NEtPFOSA	2000 ng/mL
					PFC ST 00429	0.08 mL	d3-NMePFOSA	2000 ng/mL
					PFC ST 00430	0.08 mL	M2-4:2 FTS	1868 ng/mL
					PFC ST 00431	0.08 mL	M2-6:2 FTS	1900 ng/mL
					PFC ST 00432	0.08 mL	M2-8:2 FTS	1916 ng/mL
					PFC ST 00433	0.08 mL	13C8 FOSA	2000 ng/mL
					PFC ST 00434	0.08 mL	d7-N-MeFOSE-M	2000 ng/mL
					PFC ST 00435	0.08 mL	d9-N-EtFOSE-M	2000 ng/mL
					PFC ST 00436	0.08 mL	13C3 HFPO-DA	2000 ng/mL
..PFC_ST_00426	12/02/24		Wellington Laboratories, Lot d3NMeFOSAA1119		(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_00427	05/20/25		Wellington Laboratories, Lot d5NEtFOSAA0520		(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_00428	05/20/25		Wellington Laboratories, Lot dNetFOSA0520M			(Purchased Reagent)	d5-NEtPFOSA	50000 ng/mL
..PFC_ST_00429	11/21/24		Wellington Laboratories, Lot dNMeFOSA1119M			(Purchased Reagent)	d3-NMePFOSA	50000 ng/mL
..PFC ST 00430	04/16/25		Wellington Laboratories, Lot M242FTS0420			(Purchased Reagent)	M2-4:2 FTS	46700 ng/mL
..PFC ST 00431	05/20/25		Wellington Laboratories, Lot M262FTS0520			(Purchased Reagent)	M2-6:2 FTS	47500 ng/mL
..PFC ST 00432	03/18/25		Wellington Laboratories, Lot M282FTS0320			(Purchased Reagent)	M2-8:2 FTS	47900 ng/mL
..PFC ST 00433	02/28/25		Wellington Laboratories, Lot M8FOSA0220I			(Purchased Reagent)	13C8 FOSA	50000 ng/mL
..PFC_ST_00434	12/16/24		Wellington Laboratories, Lot d7NMeFOSE1119M			(Purchased Reagent)	d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_00435	12/16/24		Wellington Laboratories, Lot d9NEtFOSE1119M			(Purchased Reagent)	d9-N-EtFOSE-M	50000 ng/mL
..PFC ST 00436	05/13/23		Wellington Laboratories, Lot M3HFPODA0520			(Purchased Reagent)	13C3 HFPO-DA	50000 ng/mL
.PFC_IN_00214	11/11/20	08/10/20	Methanol, Lot DY532-US	2 mL	PFC_ST_00307	0.08 mL	Perfluorododecanesulfonic acid (PFDoS)	1936 ng/mL
					PFC ST 00308	0.08 mL	Perfluorooctadecanoic acid	2000 ng/mL
					PFC ST 00309	0.08 mL	Perfluorohexadecanoic acid	2000 ng/mL
					PFC ST 00333	0.08 mL	Perfluorobutanoic acid	2000 ng/mL
					PFC ST 00334	0.08 mL	Perfluorodecanesulfonic acid	1928 ng/mL
					PFC ST 00335	0.08 mL	Perfluoroheptanesulfonic acid	1904 ng/mL
					PFC ST 00336	0.08 mL	Perfluorononanesulfonic acid	1920 ng/mL
					PFC ST 00337	0.08 mL	Perfluoropentanesulfonic acid	1876 ng/mL
					PFC ST 00338	0.08 mL	Perfluoropentanoic acid	2000 ng/mL
					PFC ST 00438	0.08 mL	NEtFOSA	2000 ng/mL
					PFC ST 00439	0.08 mL	NMeFOSA	2000 ng/mL
					PFC ST 00440	0.08 mL	NEtFOSE	2000 ng/mL
					PFC ST 00441	0.08 mL	NMeFOSE	2000 ng/mL
					PFC ST 00442	0.08 mL	Perfluorooctanesulfonamide	2000 ng/mL
					PFC_ST_00445	0.08 mL	4:2 Fluorotelomer sulfonic acid	1868 ng/mL
					PFC_ST_00446	0.08 mL	6:2 Fluorotelomer sulfonic acid	1896 ng/mL
					PFC_ST_00447	0.08 mL	8:2 Fluorotelomer sulfonic acid	1916 ng/mL
					PFC ST 00448	0.08 mL	10:2 FTS	1928 ng/mL
..PFC_ST_00307	11/24/24		Wellington Laboratories, Lot LPFDoS1119			(Purchased Reagent)	Perfluorododecanesulfonic acid (PFDoS)	48400 ng/mL
..PFC ST 00308	05/02/24		Wellington Laboratories, Lot PFODA0419			(Purchased Reagent)	Perfluorooctadecanoic acid	50000 ng/mL
..PFC ST 00309	03/11/24		Wellington Laboratories, Lot PFHxDA0319			(Purchased Reagent)	Perfluorohexadecanoic acid	50000 ng/mL
..PFC ST 00333	11/15/24		Wellington Laboratories, Lot PFBA1119			(Purchased Reagent)	Perfluorobutanoic acid	50000 ng/mL
..PFC ST 00334	11/14/24		Wellington Laboratories, Lot LPFDS1119			(Purchased Reagent)	Perfluorodecanesulfonic acid	48200 ng/mL
..PFC ST 00335	01/21/25		Wellington Laboratories, Lot LPFHps0120			(Purchased Reagent)	Perfluoroheptanesulfonic acid	47600 ng/mL
..PFC ST 00336	11/14/24		Wellington Laboratories, Lot LPFNS1119			(Purchased Reagent)	Perfluorononanesulfonic acid	48000 ng/mL
..PFC ST 00337	07/08/24		Wellington Laboratories, Lot LPFPeS0619			(Purchased Reagent)	Perfluoropentanesulfonic acid	46900 ng/mL
..PFC ST 00338	09/04/24		Wellington Laboratories, Lot PFPeA0919			(Purchased Reagent)	Perfluoropentanoic acid	50000 ng/mL
..PFC ST 00438	02/21/25		Wellington Laboratories, Lot NEtFOSA0220M			(Purchased Reagent)	NEtFOSA	50000 ng/mL
..PFC ST 00439	12/24/24		Wellington Laboratories, Lot NMeFOSA1219M			(Purchased Reagent)	NMeFOSA	50000 ng/mL
..PFC ST 00440	01/06/25		Wellington Laboratories, Lot NEtFOSE1219M			(Purchased Reagent)	NEtFOSE	50000 ng/mL
..PFC_ST_00441	01/06/25		Wellington Laboratories, Lot NMeFOSE1219M			(Purchased Reagent)	NMeFOSE	50000 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..PFC_ST_00442	09/12/24	Wellington Laboratories, Lot FOSA0919I			(Purchased Reagent)		Perfluorooctanesulfonamide	50000 ng/mL
..PFC_ST_00445	10/29/24	Wellington Laboratories, Lot 42FTS1019			(Purchased Reagent)		4:2 Fluorotelomer sulfonic acid	46700 ng/mL
..PFC_ST_00446	04/21/25	Wellington Laboratories, Lot 62FTS0919			(Purchased Reagent)		6:2 Fluorotelomer sulfonic acid	47400 ng/mL
..PFC_ST_00447	09/11/24	Wellington Laboratories, Lot 82FTS0919			(Purchased Reagent)		8:2 Fluorotelomer sulfonic acid	47900 ng/mL
..PFC_ST_00448	06/11/22	Wellington Laboratories, Lot 102FTS0619			(Purchased Reagent)		10:2 FTS	48200 ng/mL
.PFC_ST_00456	08/14/21	Wellington Laboratories, Lot 537PDSR10119			(Purchased Reagent)		11Cl-PF3OUdS	1860 ng/mL
							9Cl-PF3ONS	1860 ng/mL
							DONA	1890 ng/mL
							HFPODA	2000 ng/mL
							NEtFOSAA	2000 ng/mL
							NMeFOSAA	2000 ng/mL
							Perfluorobutanesulfonic acid	1770 ng/mL
							Perfluorodecanoic acid	2000 ng/mL
							Perfluorododecanoic acid	2000 ng/mL
							Perfluoroheptanoic acid	2000 ng/mL
							Perfluorohexanesulfonic acid	1824 ng/mL
							Perfluorohexanoic acid	2000 ng/mL
							Perfluorononanoic acid	2000 ng/mL
							Perfluorooctanesulfonic acid	1851 ng/mL
							Perfluorooctanoic acid	2000 ng/mL
							Perfluorotetradecanoic acid	2000 ng/mL
							Perfluorotridecanoic acid	2000 ng/mL
							Perfluoroundecanoic acid	2000 ng/mL
.PFC_ST_00457	05/04/25	Wellington Laboratories, Lot MPFACCES1019			(Purchased Reagent)		13C2 PFTeDA	2000 ng/mL
							13C2-PFDoDA	2000 ng/mL
							13C3 PFBS	1872 ng/mL
							13C3 PFHxS	1892 ng/mL
							13C4 PFBA	2000 ng/mL
							13C4 PFHpA	2000 ng/mL
							13C5 PFHxA	2000 ng/mL
							13C5 PFPeA	2000 ng/mL
							13C6 PFDA	2000 ng/mL
							13C7 PFUnA	2000 ng/mL
							13C8 PFOA	2000 ng/mL
							13C8 PFOS	1913 ng/mL
							13C9 PFNA	2000 ng/mL
.PFC_ST_00458	08/23/23	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFDA	2000 ng/mL
							13C2 PFOA	2000 ng/mL
							13C3-PFBA	2000 ng/mL
							13C4 PFOS	1913 ng/mL
PFC_STD_MOD7_00012	11/11/20	08/14/20	Methanol, Lot DX851-US	10 mL	PFC_IN_00213	0.05 mL	d3-NMeFOSAA	10 ng/mL
							d5-NEtFOSAA	10 ng/mL
							d5-NEtPFOSA	10 ng/mL
							d3-NMePFOSA	10 ng/mL
							M2-4:2 FTS	9.34 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							M2-6:2 FTS	9.5 ng/mL
							M2-8:2 FTS	9.58 ng/mL
							13C8 FOSA	10 ng/mL
							d7-N-MeFOSE-M	10 ng/mL
							d9-N-EtFOSE-M	10 ng/mL
							13C3 HFPO-DA	10 ng/mL
					PFC_IN_00214	0.5 mL	Perfluorododecanesulfonic acid (PFDoS)	96.8 ng/mL
							Perfluorooctadecanoic acid	100 ng/mL
							Perfluorohexadecanoic acid	100 ng/mL
							Perfluorobutanoic acid	100 ng/mL
							Perfluorodecanesulfonic acid	96.4 ng/mL
							Perfluoroheptanesulfonic acid	95.2 ng/mL
							Perfluorononanesulfonic acid	96 ng/mL
							Perfluoropentanesulfonic acid	93.8 ng/mL
							Perfluoropentanoic acid	100 ng/mL
							NEtFOSA	100 ng/mL
							NMeFOSA	100 ng/mL
							NEtFOSE	100 ng/mL
							NMeFOSE	100 ng/mL
							Perfluorooctanesulfonamide	100 ng/mL
							4:2 Fluorotelomer sulfonic acid	93.4 ng/mL
							6:2 Fluorotelomer sulfonic acid	94.8 ng/mL
							8:2 Fluorotelomer sulfonic acid	95.8 ng/mL
							10:2 FTS	96.4 ng/mL
					PFC_ST_00456	0.5 mL	11Cl-PF3OUds	93 ng/mL
							9Cl-PF3ONS	93 ng/mL
							DONA	94.5 ng/mL
							HFPODA	100 ng/mL
							NEtFOSAA	100 ng/mL
							NMeFOSAA	100 ng/mL
							Perfluorobutanesulfonic acid	88.5 ng/mL
							Perfluorodecanoic acid	100 ng/mL
							Perfluorododecanoic acid	100 ng/mL
							Perfluoroheptanoic acid	100 ng/mL
							Perfluorohexanesulfonic acid	91.2 ng/mL
							Perfluorohexanoic acid	100 ng/mL
							Perfluorononanoic acid	100 ng/mL
							Perfluorooctanesulfonic acid	92.55 ng/mL
							Perfluorooctanoic acid	100 ng/mL
							Perfluorotetradecanoic acid	100 ng/mL
							Perfluorotridecanoic acid	100 ng/mL
							Perfluoroundecanoic acid	100 ng/mL
					PFC_ST_00457	0.05 mL	13C2 PFTeDA	10 ng/mL
							13C2-PFDoDA	10 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							13C3 PFBS	9.36 ng/mL
							13C3 PFHxS	9.46 ng/mL
							13C4 PFBA	10 ng/mL
							13C4 PFHpA	10 ng/mL
							13C5 PFHxA	10 ng/mL
							13C5 PFPeA	10 ng/mL
							13C6 PFDA	10 ng/mL
							13C7 PFUnA	10 ng/mL
							13C8 PFOA	10 ng/mL
							13C8 PFOS	9.565 ng/mL
							13C9 PFNA	10 ng/mL
					PFC_ST_00458	0.025 mL	13C2 PFDA	5 ng/mL
							13C2 PFOA	5 ng/mL
							13C3-PFBA	5 ng/mL
							13C4 PFOS	4.7825 ng/mL
.PFC_IN_00213	11/11/20	08/10/20	Methanol, Lot DY532-US	2 mL	PFC_ST_00426	0.08 mL	d3-NMeFOSAA	2000 ng/mL
					PFC_ST_00427	0.08 mL	d5-NEtFOSAA	2000 ng/mL
					PFC_ST_00428	0.08 mL	d5-NEtPFOSA	2000 ng/mL
					PFC_ST_00429	0.08 mL	d3-NMePFOSA	2000 ng/mL
					PFC_ST_00430	0.08 mL	M2-4:2 FTS	1868 ng/mL
					PFC_ST_00431	0.08 mL	M2-6:2 FTS	1900 ng/mL
					PFC_ST_00432	0.08 mL	M2-8:2 FTS	1916 ng/mL
					PFC_ST_00433	0.08 mL	13C8 FOSA	2000 ng/mL
					PFC_ST_00434	0.08 mL	d7-N-MeFOSE-M	2000 ng/mL
					PFC_ST_00435	0.08 mL	d9-N-EtFOSE-M	2000 ng/mL
					PFC_ST_00436	0.08 mL	13C3 HFPO-DA	2000 ng/mL
..PFC_ST_00426	12/02/24		Wellington Laboratories, Lot d3NMeFOSAA1119		(Purchased Reagent)		d3-NMeFOSAA	50000 ng/mL
..PFC_ST_00427	05/20/25		Wellington Laboratories, Lot d5NEtFOSAA0520		(Purchased Reagent)		d5-NEtFOSAA	50000 ng/mL
..PFC_ST_00428	05/20/25		Wellington Laboratories, Lot dNEtFOSA0520M		(Purchased Reagent)		d5-NEtPFOSA	50000 ng/mL
..PFC_ST_00429	11/21/24		Wellington Laboratories, Lot dNMeFOSA1119M		(Purchased Reagent)		d3-NMePFOSA	50000 ng/mL
..PFC_ST_00430	04/16/25		Wellington Laboratories, Lot M242FTS0420		(Purchased Reagent)		M2-4:2 FTS	46700 ng/mL
..PFC_ST_00431	05/20/25		Wellington Laboratories, Lot M262FTS0520		(Purchased Reagent)		M2-6:2 FTS	47500 ng/mL
..PFC_ST_00432	03/18/25		Wellington Laboratories, Lot M282FTS0320		(Purchased Reagent)		M2-8:2 FTS	47900 ng/mL
..PFC_ST_00433	02/28/25		Wellington Laboratories, Lot M8FOSA0220I		(Purchased Reagent)		13C8 FOSA	50000 ng/mL
..PFC_ST_00434	12/16/24		Wellington Laboratories, Lot d7NMeFOSE1119M		(Purchased Reagent)		d7-N-MeFOSE-M	50000 ng/mL
..PFC_ST_00435	12/16/24		Wellington Laboratories, Lot d9NEtFOSE1119M		(Purchased Reagent)		d9-N-EtFOSE-M	50000 ng/mL
..PFC_ST_00436	05/13/23		Wellington Laboratories, Lot M3HFPODA0520		(Purchased Reagent)		13C3 HFPO-DA	50000 ng/mL
.PFC_IN_00214	11/11/20	08/10/20	Methanol, Lot DY532-US	2 mL	PFC_ST_00307	0.08 mL	Perfluorododecanesulfonic acid (PFDoS)	1936 ng/mL
					PFC_ST_00308	0.08 mL	Perfluorooctadecanoic acid	2000 ng/mL
					PFC_ST_00309	0.08 mL	Perfluorohexadecanoic acid	2000 ng/mL
					PFC_ST_00333	0.08 mL	Perfluorobutanoic acid	2000 ng/mL
					PFC_ST_00334	0.08 mL	Perfluorodecanesulfonic acid	1928 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					PFC_ST_00335	0.08 mL	Perfluoroheptanesulfonic acid	1904 ng/mL
					PFC_ST_00336	0.08 mL	Perfluorononanesulfonic acid	1920 ng/mL
					PFC_ST_00337	0.08 mL	Perfluoropentanesulfonic acid	1876 ng/mL
					PFC_ST_00338	0.08 mL	Perfluoropentanoic acid	2000 ng/mL
					PFC_ST_00438	0.08 mL	NEtFOSA	2000 ng/mL
					PFC_ST_00439	0.08 mL	NMeFOSA	2000 ng/mL
					PFC_ST_00440	0.08 mL	NEtFOSE	2000 ng/mL
					PFC_ST_00441	0.08 mL	NMeFOSE	2000 ng/mL
					PFC_ST_00442	0.08 mL	Perfluorooctanesulfonamide	2000 ng/mL
					PFC_ST_00445	0.08 mL	4:2 Fluorotelomer sulfonic acid	1868 ng/mL
					PFC_ST_00446	0.08 mL	6:2 Fluorotelomer sulfonic acid	1896 ng/mL
					PFC_ST_00447	0.08 mL	8:2 Fluorotelomer sulfonic acid	1916 ng/mL
					PFC_ST_00448	0.08 mL	10:2 FTS	1928 ng/mL
..PFC_ST_00307	11/24/24	Wellington Laboratories, Lot LPFDoS1119			(Purchased Reagent)		Perfluorododecanesulfonic acid (PFDoS)	48400 ng/mL
..PFC_ST_00308	05/02/24	Wellington Laboratories, Lot PFODA0419			(Purchased Reagent)		Perfluorooctadecanoic acid	50000 ng/mL
..PFC_ST_00309	03/11/24	Wellington Laboratories, Lot PFHxDA0319			(Purchased Reagent)		Perfluorohexadecanoic acid	50000 ng/mL
..PFC_ST_00333	11/15/24	Wellington Laboratories, Lot PFBA1119			(Purchased Reagent)		Perfluorobutanoic acid	50000 ng/mL
..PFC_ST_00334	11/14/24	Wellington Laboratories, Lot LPFDS1119			(Purchased Reagent)		Perfluorodecanesulfonic acid	48200 ng/mL
..PFC_ST_00335	01/21/25	Wellington Laboratories, Lot LPFHpS0120			(Purchased Reagent)		Perfluoroheptanesulfonic acid	47600 ng/mL
..PFC_ST_00336	11/14/24	Wellington Laboratories, Lot LPFNS1119			(Purchased Reagent)		Perfluorononanesulfonic acid	48000 ng/mL
..PFC_ST_00337	07/08/24	Wellington Laboratories, Lot LPFPeS0619			(Purchased Reagent)		Perfluoropentanesulfonic acid	46900 ng/mL
..PFC_ST_00338	09/04/24	Wellington Laboratories, Lot PFPeA0919			(Purchased Reagent)		Perfluoropentanoic acid	50000 ng/mL
..PFC_ST_00438	02/21/25	Wellington Laboratories, Lot NEtFOSA0220M			(Purchased Reagent)		NEtFOSA	50000 ng/mL
..PFC_ST_00439	12/24/24	Wellington Laboratories, Lot NMeFOSA1219M			(Purchased Reagent)		NMeFOSA	50000 ng/mL
..PFC_ST_00440	01/06/25	Wellington Laboratories, Lot NEtFOSE1219M			(Purchased Reagent)		NEtFOSE	50000 ng/mL
..PFC_ST_00441	01/06/25	Wellington Laboratories, Lot NMeFOSE1219M			(Purchased Reagent)		NMeFOSE	50000 ng/mL
..PFC_ST_00442	09/12/24	Wellington Laboratories, Lot FOSA0919I			(Purchased Reagent)		Perfluorooctanesulfonamide	50000 ng/mL
..PFC_ST_00445	10/29/24	Wellington Laboratories, Lot 42FTS1019			(Purchased Reagent)		4:2 Fluorotelomer sulfonic acid	46700 ng/mL
..PFC_ST_00446	04/21/25	Wellington Laboratories, Lot 62FTS0919			(Purchased Reagent)		6:2 Fluorotelomer sulfonic acid	47400 ng/mL
..PFC_ST_00447	09/11/24	Wellington Laboratories, Lot 82FTS0919			(Purchased Reagent)		8:2 Fluorotelomer sulfonic acid	47900 ng/mL
..PFC_ST_00448	06/11/22	Wellington Laboratories, Lot 102FTS0619			(Purchased Reagent)		10:2 FTS	48200 ng/mL
.PFC_ST_00456	08/14/21	Wellington Laboratories, Lot 537PDSR10119			(Purchased Reagent)		11Cl-PF3OUdS	1860 ng/mL
							9Cl-PF3ONS	1860 ng/mL
							DONA	1890 ng/mL
							HFPODA	2000 ng/mL
							NEtFOSAA	2000 ng/mL
							NMeFOSAA	2000 ng/mL
							Perfluorobutanesulfonic acid	1770 ng/mL
							Perfluorodecanoic acid	2000 ng/mL
							Perfluorododecanoic acid	2000 ng/mL
							Perfluoroheptanoic acid	2000 ng/mL
							Perfluorohexanesulfonic acid	1824 ng/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perfluorohexanoic acid	2000 ng/mL
							Perfluorononanoic acid	2000 ng/mL
							Perfluorooctanesulfonic acid	1851 ng/mL
							Perfluorooctanoic acid	2000 ng/mL
							Perfluorotetradecanoic acid	2000 ng/mL
							Perfluorotridecanoic acid	2000 ng/mL
							Perfluoroundecanoic acid	2000 ng/mL
.PFC_ST_00457	05/04/25	Wellington Laboratories, Lot MPFACCES1019			(Purchased Reagent)		13C2 PFTeDA	2000 ng/mL
							13C2-PFDoDA	2000 ng/mL
							13C3 PFBS	1872 ng/mL
							13C3 PFHxS	1892 ng/mL
							13C4 PFBA	2000 ng/mL
							13C4 PFHpA	2000 ng/mL
							13C5 PFHxA	2000 ng/mL
							13C5 PFPeA	2000 ng/mL
							13C6 PFDA	2000 ng/mL
							13C7 PFUnA	2000 ng/mL
							13C8 PFOA	2000 ng/mL
							13C8 PFOS	1913 ng/mL
							13C9 PFNA	2000 ng/mL
.PFC_ST_00458	08/23/23	Wellington Laboratories, Lot MPFACCIS0516			(Purchased Reagent)		13C2 PFDA	2000 ng/mL
							13C2 PFOA	2000 ng/mL
							13C3-PFBA	2000 ng/mL
							13C4 PFOS	1913 ng/mL

Method PFC IDA

Fluorinated Hydrocarbons by Method
PFAS IDA

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-12790-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): Gemini C18 5 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	C3PFBS #	M242FTS #	13C5PHA #	HFPODA #	C3PFHS #	C4PFHA #
1-Field Blank	410-12790-1	92	97	90	102	96	73	91	93
2-Anvil 10x10	410-12790-2	94	100	58	110	92	70	63	104
2-Anvil 10x10 RE	410-12790-2 RE	109	113	112	114	100	53	93	112
	MB 410-40650/1-B	75	75	34	68	65	50	34	56
	MB 410-40676/1-A	87	92	91	94	85	63	83	83
	MB 410-41621/1-B	108	111	105	109	106	80	108	107
	LCS 410-40650/2-B	74	74	44	69	68	50	42	65
	LCS 410-40676/2-A	90	96	92	104	92	65	90	92
	LCS 410-41621/2-B	105	103	100	97	100	82	96	99
	LCSD 410-40650/3-B	66	65	42	60	55	41	38	55
	LCSD 410-40676/3-A	92	97	95	107	91	71	84	89
	LCSD 410-41621/3-B	97	98	98	94	92	87	91	89

	<u>QC LIMITS</u>
PFBA = 13C4 PFBA	41-132
PFPeA = 13C5 PFPeA	33-155
C3PFBS = 13C3 PFBS	19-178
M242FTS = M2-4:2 FTS	20-187
13C5PHA = 13C5 PFHxA	31-142
HFPODA = 13C3 HFPO-DA	20-153
C3PFHS = 13C3 PFHxS	32-145
C4PFHA = 13C4 PFHpA	30-144

Column to be used to flag recovery values

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-12790-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): Gemini C18 5 ID: 3 (mm)

Client Sample ID	Lab Sample ID	M262FTS #	C8PFOA #	C8PFOS #	C9PFNA #	C6PFDA #	M282FTS #	PFOSA #	d3NMFOS #
1-Field Blank	410-12790-1	104	93	94	97	98	102	78	89
2-Anvil 10x10	410-12790-2	156	99	77	134	102	249 *5	81	162 *5
2-Anvil 10x10 RE	410-12790-2 RE	161	105	105	139 *5	109	291 *5	74	155 *5
	MB 410-40650/1-B	58	54	40 *5	59	61	62	36	56
	MB 410-40676/1-A	96	86	86	91	85	101	77	81
	MB 410-41621/1-B	108	109	105	108	112	123	92	101
	LCS 410-40650/2-B	71	65	45 *5	65	62	68	53	59
	LCS 410-40676/2-A	103	92	90	97	99	102	85	90
	LCS 410-41621/2-B	102	102	104	102	105	101	88	104
	LCSD 410-40650/3-B	57	52	40 *5	52	53	53	43	47
	LCSD 410-40676/3-A	102	95	91	98	97	103	79	87
	LCSD 410-41621/3-B	97	95	94	96	95	92	67	88

QC LIMITS

M262FTS = M2-6:2 FTS	29-189
C8PFOA = 13C8 PFOA	49-127
C8PFOS = 13C8 PFOS	49-126
C9PFNA = 13C9 PFNA	47-136
M282FTS = M2-8:2 FTS	34-182
C6PFDA = 13C6 PFDA	47-128
PFOSA = 13C8 FOSA	10-143
d3NMFOS = d3-NMeFOSAA	32-151

Column to be used to flag recovery values

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-12790-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): Gemini C18 5 ID: 3 (mm)

Client Sample ID	Lab Sample ID	13C7PUA #	d5NEFOS #	PFDoDA #	NMFM #	d3NMFSA #	NEFM #	d5NPFSA #	PFTDA #
1-Field Blank	410-12790-1	93	92	90	67	45	64	44	89
2-Anvil 10x10	410-12790-2	94	167 *5	28	50	73	179 *5	102	81
2-Anvil 10x10 RE	410-12790-2 RE	101	154	46	48	64	156 *5	91	83
	MB 410-40650/1-B	67	58	70	0.5 *5	0.3 *5	0.7 *5	0.1 *5	72
	MB 410-40676/1-A	87	86	85	73	58	75	59	77
	MB 410-41621/1-B	111	106	116	2 *5	4 *5	2 *5	1 *5	102
	LCS 410-40650/2-B	65	60	63	2 *5	2 *5	2 *5	1 *5	71
	LCS 410-40676/2-A	97	98	95	78	61	80	59	94
	LCS 410-41621/2-B	109	108	112	4 *5	5 *5	3 *5	3 *5	100
	LCSD 410-40650/3-B	55	49	57	2 *5	2 *5	2 *5	0.7 *5	64
	LCSD 410-40676/3-A	95	90	86	70	37	66	35	82
	LCSD 410-41621/3-B	98	91	106	6 *5	11	5 *5	6 *5	89

QC LIMITS

13C7PUA = 13C7 PFUnA	40-135
d5NEFOS = d5-NEtFOSAA	37-164
PFDoDA = 13C2-PFDoDA	28-136
NMFM = d7-N-MeFOSE-M	10-143
d3NMFSA = d3-NMePFOSA	10-107
NEFM = d9-N-EtFOSE-M	10-142
d5NPFSA = d5-NEtPFOSA	10-108
PFTDA = 13C2 PFTeDA	10-144

Column to be used to flag recovery values

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-12790-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 20SEP04-21.d

Lab ID: LCS 410-40650/2-B Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorohexanoic acid	6400	5840	91	66-137	
Perfluoroheptanoic acid	6400	6580	103	66-141	
Perfluorooctanoic acid	6400	6060	95	65-136	
Perfluorononanoic acid	6400	5870	92	65-140	
Perfluorodecanoic acid	6400	6060	95	63-137	
Perfluorotridecanoic acid	6400	7260	114	58-146	
Perfluorotetradecanoic acid	6400	6530	102	64-141	
Perfluorobutanesulfonic acid	5660	5070	90	65-132	
Perfluorohexanesulfonic acid	6050	5150	85	60-128	
Perfluorooctanesulfonic acid	6120	4820	79	51-126	
NEtFOSAA	6400	6890	108	54-134	
NMeFOSAA	6400	7230	113	58-143	
M2-4:2 FTS	18700	13000	69	20-187	
M2-8:2 FTS	19200	13000	68	34-182	
M2-6:2 FTS	19000	13500	71	29-189	
10:2 FTS	6170	6050	98	44-141	
Perfluoropentanesulfonic acid	6000	6110	102	71-136	
Perfluoroheptanesulfonic acid	6090	6170	101	67-135	
Perfluorononanesulfonic acid	6140	6430	105	67-137	
Perfluorodecanesulfonic acid	6160	6040	98	61-134	
Perfluorododecanesulfonic acid (PFDoS)	6200	6760	109	54-136	
Perfluorooctanesulfonamide	6400	6340	99	55-130	
Perfluorohexadecanoic acid	6400	6290	98	52-149	
Perfluorooctadecanoic acid	6400	6200	97	32-167	
Perfluorobutanoic acid	6400	6600	103	62-156	
Perfluoropentanoic acid	6400	6110	95	72-139	
NMeFOSE	6400	5400	84	52-131	
NMeFOSA	6400	5630	88	49-141	
NEtFOSE	6400	8320	130	49-128	*
NEtFOSA	6400	5540	87	50-136	
HFPODA	6400	6880	108	37-147	
DONA	6030	5870	97	49-158	
9Cl-PF3ONS	5960	5070	85	52-135	
11Cl-PF3OUdS	6030	5090	84	45-134	
13C5 PFHxA	20000	13600	68	31-142	
13C4 PFHpA	20000	13000	65	30-144	
13C8 PFOA	20000	13000	65	49-127	
13C9 PFNA	20000	13000	65	47-136	
13C6 PFDA	20000	12400	62	47-128	
13C7 PFUnA	20000	13000	65	40-135	
13C2-PFDoDA	20000	12700	63	28-136	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-12790-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 20SEP04-21.d

Lab ID: LCS 410-40650/2-B Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
13C2 PFTeDA	20000	14200	71	10-144	
13C3 PFBS	18700	8140	44	19-178	
13C3 PFHxS	18900	7980	42	32-145	
13C8 PFOS	19100	8580	45	49-126	*5
d3-NMeFOSAA	20000	11800	59	32-151	
d5-NEtFOSAA	20000	12100	60	37-164	
13C8 FOSA	20000	10600	53	10-143	
13C4 PFBA	20000	14700	74	41-132	
13C5 PFPeA	20000	14800	74	33-155	
d7-N-MeFOSE-M	20000	348	2	10-143	*5
d3-NMePFOSA	20000	399	2	10-107	*5
d9-N-EtFOSE-M	20000	342	2	10-142	*5
d5-NEtPFOSA	20000	219	1	10-108	*5
13C3 HFPO-DA	20000	10100	50	20-153	
Perfluorododecanoic acid	6400	6770	106	63-140	
4:2 Fluorotelomer sulfonic acid	5980	6310	105	59-130	
Perfluoroundecanoic acid	6400	6150	96	62-138	
6:2 Fluorotelomer sulfonic acid	6070	6280	104	57-137	
8:2 Fluorotelomer sulfonic acid	6130	6570	107	56-140	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-12790-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 20SEP04-26.d

Lab ID: LCS 410-40676/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorohexanoic acid	25.6	22.8	89	66-137	
Perfluoroheptanoic acid	25.6	26.1	102	66-141	
Perfluorooctanoic acid	25.6	24.3	95	65-136	
Perfluorononanoic acid	25.6	24.0	94	65-140	
Perfluorodecanoic acid	25.6	23.7	92	63-137	
Perfluorotridecanoic acid	25.6	26.3	103	58-146	
Perfluorotetradecanoic acid	25.6	26.5	104	64-141	
Perfluorobutanesulfonic acid	22.6	21.7	96	65-132	
Perfluorohexanesulfonic acid	24.2	21.1	87	60-128	
Perfluorooctanesulfonic acid	24.5	20.5	84	51-126	
NEtFOSAA	25.6	27.4	107	54-134	
NMeFOSAA	25.6	30.6	120	58-143	
M2-4:2 FTS	37.4	38.9	104	20-187	
M2-8:2 FTS	38.3	39.2	102	34-182	
M2-6:2 FTS	38.0	39.2	103	29-189	
10:2 FTS	24.7	26.5	107	44-141	
Perfluoropentanesulfonic acid	24.0	23.2	97	71-136	
Perfluoroheptanesulfonic acid	24.4	24.5	101	67-135	
Perfluorononanesulfonic acid	24.6	25.9	105	67-137	
Perfluorodecanesulfonic acid	24.7	24.5	99	61-134	
Perfluorododecanesulfonic acid (PFDoS)	24.8	22.9	92	54-136	
Perfluorooctanesulfonamide	25.6	26.2	102	55-130	
Perfluorohexadecanoic acid	25.6	25.3	99	52-149	
Perfluorooctadecanoic acid	25.6	26.1	102	32-167	
Perfluorobutanoic acid	25.6	25.2	99	62-156	
Perfluoropentanoic acid	25.6	23.6	92	72-139	
NMeFOSE	25.6	25.8	101	52-131	
NMeFOSA	25.6	26.4	103	49-141	
NEtFOSE	25.6	25.3	99	49-128	
NEtFOSA	25.6	24.4	95	50-136	
HFPODA	25.6	28.8	113	37-147	
DONA	24.1	22.8	95	49-158	
9Cl-PF3ONS	23.9	21.9	92	52-135	
11Cl-PF3OUdS	24.1	22.3	92	45-134	
13C5 PFHxA	40.0	37.0	92	31-142	
13C4 PFHpA	40.0	36.6	92	30-144	
13C8 PFOA	40.0	36.8	92	49-127	
13C9 PFNA	40.0	38.8	97	47-136	
13C6 PFDA	40.0	39.6	99	47-128	
13C7 PFUnA	40.0	38.7	97	40-135	
13C2-PFDoDA	40.0	37.8	95	28-136	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-12790-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 20SEP04-26.d

Lab ID: LCS 410-40676/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
13C2 PFTeDA	40.0	37.5	94	10-144	
13C3 PFBS	37.4	34.3	92	19-178	
13C3 PFHxS	37.8	34.1	90	32-145	
13C8 PFOS	38.3	34.5	90	49-126	
d3-NMeFOSAA	40.0	35.9	90	32-151	
d5-NEtFOSAA	40.0	39.1	98	37-164	
13C8 FOSA	40.0	34.1	85	10-143	
13C4 PFBA	40.0	36.1	90	41-132	
13C5 PFPeA	40.0	38.3	96	33-155	
d7-N-MeFOSE-M	40.0	31.3	78	10-143	
d3-NMePFOSA	40.0	24.4	61	10-107	
d9-N-EtFOSE-M	40.0	32.0	80	10-142	
d5-NEtPFOSA	40.0	23.8	59	10-108	
13C3 HFPO-DA	40.0	25.9	65	20-153	
Perfluorododecanoic acid	25.6	26.0	102	63-140	
4:2 Fluorotelomer sulfonic acid	23.9	22.9	96	59-130	
Perfluoroundecanoic acid	25.6	25.5	100	62-138	
6:2 Fluorotelomer sulfonic acid	24.3	25.6	105	57-137	
8:2 Fluorotelomer sulfonic acid	24.5	26.9	110	56-140	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-12790-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 20SEP09-19.d

Lab ID: LCS 410-41621/2-B Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorohexanoic acid	6400	5650	88	66-137	
Perfluoroheptanoic acid	6400	6030	94	66-141	
Perfluorooctanoic acid	6400	5400	84	65-136	
Perfluorononanoic acid	6400	5650	88	65-140	
Perfluorodecanoic acid	6400	5530	86	63-137	
Perfluorotridecanoic acid	6400	5880	92	58-146	
Perfluorotetradecanoic acid	6400	6110	95	64-141	
Perfluorobutanesulfonic acid	5660	5020	89	65-132	
Perfluorohexanesulfonic acid	6050	5120	85	60-128	
Perfluorooctanesulfonic acid	6120	4720	77	51-126	
NEtFOSAA	6400	6090	95	54-134	
NMeFOSAA	6400	6390	100	58-143	
M2-4:2 FTS	18700	18100	97	20-187	
M2-8:2 FTS	19200	19300	101	34-182	
M2-6:2 FTS	19000	19400	102	29-189	
10:2 FTS	6170	8300	135	44-141	
Perfluoropentanesulfonic acid	6000	5860	98	71-136	
Perfluoroheptanesulfonic acid	6090	5550	91	67-135	
Perfluorononanesulfonic acid	6140	5900	96	67-137	
Perfluorodecanesulfonic acid	6160	5700	92	61-134	
Perfluorododecanesulfonic acid (PFDoS)	6200	5510	89	54-136	
Perfluorooctanesulfonamide	6400	5790	91	55-130	
Perfluorohexadecanoic acid	6400	5640	88	52-149	
Perfluorooctadecanoic acid	6400	6220	97	32-167	
Perfluorobutanoic acid	6400	6380	100	62-156	
Perfluoropentanoic acid	6400	5680	89	72-139	
NMeFOSE	6400	4800	75	52-131	
NMeFOSA	6400	5560	87	49-141	
NEtFOSE	6400	6490	101	49-128	
NEtFOSA	6400	5560	87	50-136	
HFPODA	6400	6120	96	37-147	
DONA	6030	5130	85	49-158	
9Cl-PF3ONS	5960	5130	86	52-135	
11Cl-PF3OUdS	6030	5210	86	45-134	
13C5 PFHxA	20000	20000	100	31-142	
13C4 PFHpA	20000	19800	99	30-144	
13C8 PFOA	20000	20300	102	49-127	
13C9 PFNA	20000	20400	102	47-136	
13C6 PFDA	20000	21100	105	47-128	
13C7 PFUnA	20000	21800	109	40-135	
13C2-PFDoDA	20000	22400	112	28-136	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-12790-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 20SEP09-19.d

Lab ID: LCS 410-41621/2-B Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
13C2 PFTeDA	20000	20000	100	10-144	
13C3 PFBS	18700	18700	100	19-178	
13C3 PFHxS	18900	18200	96	32-145	
13C8 PFOS	19100	19800	104	49-126	
d3-NMeFOSAA	20000	20800	104	32-151	
d5-NEtFOSAA	20000	21600	108	37-164	
13C8 FOSA	20000	17500	88	10-143	
13C4 PFBA	20000	21000	105	41-132	
13C5 PFPeA	20000	20500	103	33-155	
d7-N-MeFOSE-M	20000	823	4	10-143	*5
d3-NMePFOSA	20000	1020	5	10-107	*5
d9-N-EtFOSE-M	20000	580	3	10-142	*5
d5-NEtPFOSA	20000	533	3	10-108	*5
13C3 HFPO-DA	20000	16400	82	20-153	
Perfluorododecanoic acid	6400	6180	96	63-140	
4:2 Fluorotelomer sulfonic acid	5980	5980	100	59-130	
Perfluoroundecanoic acid	6400	6020	94	62-138	
6:2 Fluorotelomer sulfonic acid	6070	6010	99	57-137	
8:2 Fluorotelomer sulfonic acid	6130	6270	102	56-140	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-12790-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 20SEP04-22.d

Lab ID: LCSD 410-40650/3-B Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Perfluorohexanoic acid	6400	6000	94	3	30	66-137	
Perfluoroheptanoic acid	6400	6360	99	3	30	66-141	
Perfluorooctanoic acid	6400	6060	95	0	30	65-136	
Perfluorononanoic acid	6400	6320	99	7	30	65-140	
Perfluorodecanoic acid	6400	6000	94	1	30	63-137	
Perfluorotridecanoic acid	6400	7780	122	7	30	58-146	
Perfluorotetradecanoic acid	6400	6820	107	4	30	64-141	
Perfluorobutanesulfonic acid	5660	5260	93	4	30	65-132	
Perfluorohexanesulfonic acid	6050	5240	87	2	30	60-128	
Perfluorooctanesulfonic acid	6120	5030	82	4	30	51-126	
NEtFOSAA	6400	7140	112	4	30	54-134	
NMeFOSAA	6400	7610	119	5	30	58-143	
M2-4:2 FTS	18700	11200	60			20-187	
M2-8:2 FTS	19200	10200	53			34-182	
M2-6:2 FTS	19000	10900	57			29-189	
10:2 FTS	6170	7230	117	18	30	44-141	
Perfluoropentanesulfonic acid	6000	5910	98	3	30	71-136	
Perfluoroheptanesulfonic acid	6090	6050	99	2	30	67-135	
Perfluorononanesulfonic acid	6140	6510	106	1	30	67-137	
Perfluorodecanesulfonic acid	6160	6420	104	6	30	61-134	
Perfluorododecanesulfonic acid (PFDoS)	6200	8140	131	19	30	54-136	
Perfluorooctanesulfonamide	6400	6460	101	2	30	55-130	
Perfluorohexadecanoic acid	6400	7170	112	13	30	52-149	
Perfluorooctadecanoic acid	6400	7030	110	12	30	32-167	
Perfluorobutanoic acid	6400	6720	105	2	30	62-156	
Perfluoropentanoic acid	6400	6060	95	1	30	72-139	
NMeFOSE	6400	6160	96	13	30	52-131	
NMeFOSA	6400	5050	79	11	30	49-141	
NEtFOSE	6400	5570	87	40	30	49-128	*1
NEtFOSA	6400	6150	96	10	30	50-136	
HFPODA	6400	7230	113	5	30	37-147	
DONA	6030	5710	95	3	30	49-158	
9Cl-PF3ONS	5960	5020	84	1	30	52-135	
11Cl-PF3OUdS	6030	5450	90	7	30	45-134	
13C5 PFHxA	20000	11100	55			31-142	
13C4 PFHpA	20000	10900	55			30-144	
13C8 PFOA	20000	10400	52			49-127	
13C9 PFNA	20000	10400	52			47-136	
13C6 PFDA	20000	10400	52			47-128	
13C7 PFUnA	20000	11100	55			40-135	
13C2-PFDoDA	20000	11400	57			28-136	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-12790-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 20SEP04-22.d

Lab ID: LCSD 410-40650/3-B Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
13C2 PFTeDA	20000	12900	64			10-144	
13C3 PFBS	18700	7900	42			19-178	
13C3 PFHxS	18900	7280	38			32-145	
13C8 PFOS	19100	7740	40			49-126	*5
d3-NMeFOSAA	20000	9400	47			32-151	
d5-NEtFOSAA	20000	9780	49			37-164	
13C8 FOSA	20000	8520	43			10-143	
13C4 PFBA	20000	13200	66			41-132	
13C5 PFPeA	20000	13000	65			33-155	
d7-N-MeFOSE-M	20000	347	2			10-143	*5
d3-NMePFOSA	20000	306	2			10-107	*5
d9-N-EtFOSE-M	20000	399	2			10-142	*5
d5-NEtPFOSA	20000	135	0.7			10-108	*5
13C3 HFPO-DA	20000	8210	41			20-153	
Perfluorododecanoic acid	6400	6830	107	1	30	63-140	
4:2 Fluorotelomer sulfonic acid	5980	6390	107	1	30	59-130	
Perfluoroundecanoic acid	6400	6140	96	0	30	62-138	
6:2 Fluorotelomer sulfonic acid	6070	6220	103	1	30	57-137	
8:2 Fluorotelomer sulfonic acid	6130	6860	112	4	30	56-140	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-12790-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 20SEP04-27.d

Lab ID: LCSD 410-40676/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Perfluorohexanoic acid	25.6	23.8	93	4	30	66-137	
Perfluoroheptanoic acid	25.6	26.2	102	1	30	66-141	
Perfluorooctanoic acid	25.6	24.3	95	0	30	65-136	
Perfluorononanoic acid	25.6	24.0	94	0	30	65-140	
Perfluorodecanoic acid	25.6	23.8	93	1	30	63-137	
Perfluorotridecanoic acid	25.6	27.0	105	2	30	58-146	
Perfluorotetradecanoic acid	25.6	26.5	103	0	30	64-141	
Perfluorobutanesulfonic acid	22.6	20.6	91	5	30	65-132	
Perfluorohexanesulfonic acid	24.2	21.8	90	4	30	60-128	
Perfluorooctanesulfonic acid	24.5	20.5	84	0	30	51-126	
NEtFOSAA	25.6	26.8	105	2	30	54-134	
NMeFOSAA	25.6	27.5	107	11	30	58-143	
M2-4:2 FTS	37.4	39.8	107			20-187	
M2-8:2 FTS	38.3	39.6	103			34-182	
M2-6:2 FTS	38.0	38.7	102			29-189	
10:2 FTS	24.7	22.9	93	15	30	44-141	
Perfluoropentanesulfonic acid	24.0	23.1	96	0	30	71-136	
Perfluoroheptanesulfonic acid	24.4	24.7	101	1	30	67-135	
Perfluorononanesulfonic acid	24.6	24.4	99	6	30	67-137	
Perfluorodecanesulfonic acid	24.7	22.6	92	8	30	61-134	
Perfluorododecanesulfonic acid (PFDoS)	24.8	21.0	85	9	30	54-136	
Perfluorooctanesulfonamide	25.6	26.6	104	1	30	55-130	
Perfluorohexadecanoic acid	25.6	24.6	96	3	30	52-149	
Perfluorooctadecanoic acid	25.6	25.0	98	4	30	32-167	
Perfluorobutanoic acid	25.6	26.2	102	4	30	62-156	
Perfluoropentanoic acid	25.6	24.6	96	4	30	72-139	
NMeFOSE	25.6	23.6	92	9	30	52-131	
NMeFOSA	25.6	25.9	101	2	30	49-141	
NEtFOSE	25.6	25.7	100	2	30	49-128	
NEtFOSA	25.6	24.3	95	0	30	50-136	
HFPODA	25.6	25.6	100	12	30	37-147	
DONA	24.1	23.2	96	2	30	49-158	
9Cl-PF3ONS	23.9	20.8	87	5	30	52-135	
11Cl-PF3OUdS	24.1	19.6	81	13	30	45-134	
13C5 PFHxA	40.0	36.6	91			31-142	
13C4 PFHpA	40.0	35.4	89			30-144	
13C8 PFOA	40.0	37.9	95			49-127	
13C9 PFNA	40.0	39.2	98			47-136	
13C6 PFDA	40.0	38.7	97			47-128	
13C7 PFUnA	40.0	37.9	95			40-135	
13C2-PFDoDA	40.0	34.2	86			28-136	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-12790-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 20SEP04-27.d

Lab ID: LCSD 410-40676/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
13C2 PFTeDA	40.0	32.9	82			10-144	
13C3 PFBS	37.4	35.6	95			19-178	
13C3 PFHxS	37.8	31.7	84			32-145	
13C8 PFOS	38.3	34.7	91			49-126	
d3-NMeFOSAA	40.0	34.8	87			32-151	
d5-NEtFOSAA	40.0	36.0	90			37-164	
13C8 FOSA	40.0	31.6	79			10-143	
13C4 PFBA	40.0	36.7	92			41-132	
13C5 PFPeA	40.0	38.9	97			33-155	
d7-N-MeFOSE-M	40.0	28.0	70			10-143	
d3-NMePFOSA	40.0	14.7	37			10-107	
d9-N-EtFOSE-M	40.0	26.5	66			10-142	
d5-NEtPFOSA	40.0	14.1	35			10-108	
13C3 HFPO-DA	40.0	28.4	71			20-153	
Perfluorododecanoic acid	25.6	26.2	103	1	30	63-140	
4:2 Fluorotelomer sulfonic acid	23.9	23.6	99	3	30	59-130	
Perfluoroundecanoic acid	25.6	24.1	94	6	30	62-138	
6:2 Fluorotelomer sulfonic acid	24.3	25.2	104	1	30	57-137	
8:2 Fluorotelomer sulfonic acid	24.5	26.4	108	2	30	56-140	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-12790-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 20SEP09-21.d

Lab ID: LCSD 410-41621/3-B Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Perfluorohexanoic acid	6400	5720	89	4	30	66-137	
Perfluoroheptanoic acid	6400	6150	96	4	30	66-141	
Perfluorooctanoic acid	6400	5520	86	1	30	65-136	
Perfluorononanoic acid	6400	5600	88	1	30	65-140	
Perfluorodecanoic acid	6400	5660	88	4	30	63-137	
Perfluorotridecanoic acid	6400	5350	84	11	30	58-146	
Perfluorotetradecanoic acid	6400	6180	97	3	30	64-141	
Perfluorobutanesulfonic acid	5660	5070	89	1	30	65-132	
Perfluorohexanesulfonic acid	6050	5180	86	2	30	60-128	
Perfluorooctanesulfonic acid	6120	4810	79	2	30	51-126	
NEtFOSAA	6400	6220	97	2	30	54-134	
NMeFOSAA	6400	6620	103	2	30	58-143	
M2-4:2 FTS	18700	17600	94			20-187	
M2-8:2 FTS	19200	17600	92			34-182	
M2-6:2 FTS	19000	18400	97			29-189	
10:2 FTS	6170	9740	158	23	30	44-141	*
Perfluoropentanesulfonic acid	6000	5920	99	4	30	71-136	
Perfluoroheptanesulfonic acid	6090	5590	92	2	30	67-135	
Perfluorononanesulfonic acid	6140	6320	103	6	30	67-137	
Perfluorodecanesulfonic acid	6160	5610	91	3	30	61-134	
Perfluorododecanesulfonic acid (PFDoS)	6200	5620	91	3	30	54-136	
Perfluorooctanesulfonamide	6400	6060	95	5	30	55-130	
Perfluorohexadecanoic acid	6400	5790	90	5	30	52-149	
Perfluorooctadecanoic acid	6400	6460	101	15	30	32-167	
Perfluorobutanoic acid	6400	6430	101	1	30	62-156	
Perfluoropentanoic acid	6400	6070	95	5	30	72-139	
NMeFOSE	6400	5780	90	2	30	52-131	
NMeFOSA	6400	6010	94	9	30	49-141	
NEtFOSE	6400	3940	62	59	30	49-128	*1
NEtFOSA	6400	6220	97	6	30	50-136	
HFPODA	6400	5340	83	13	30	37-147	
DONA	6030	5400	90	2	30	49-158	
9Cl-PF3ONS	5960	5080	85	5	30	52-135	
11Cl-PF3OUdS	6030	5260	87	3	30	45-134	
13C5 PFHxA	20000	18500	92			31-142	
13C4 PFHpA	20000	17800	89			30-144	
13C8 PFOA	20000	18900	95			49-127	
13C9 PFNA	20000	19100	96			47-136	
13C6 PFDA	20000	19000	95			47-128	
13C7 PFUnA	20000	19500	98			40-135	
13C2-PFDoDA	20000	21100	106			28-136	

Column to be used to flag recovery and RPD values

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-12790-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 20SEP09-21.d

Lab ID: LCSD 410-41621/3-B Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
13C2 PFTeDA	20000	17800	89			10-144	
13C3 PFBS	18700	18400	98			19-178	
13C3 PFHxS	18900	17300	91			32-145	
13C8 PFOS	19100	18000	94			49-126	
d3-NMeFOSAA	20000	17700	88			32-151	
d5-NEtFOSAA	20000	18200	91			37-164	
13C8 FOSA	20000	13400	67			10-143	
13C4 PFBA	20000	19400	97			41-132	
13C5 PFPeA	20000	19700	98			33-155	
d7-N-MeFOSE-M	20000	1200	6			10-143	*5
d3-NMePFOSA	20000	2190	11			10-107	
d9-N-EtFOSE-M	20000	1080	5			10-142	*5
d5-NEtPFOSA	20000	1130	6			10-108	*5
13C3 HFPO-DA	20000	17400	87			20-153	
Perfluorododecanoic acid	6400	6120	96	3	30	63-140	
4:2 Fluorotelomer sulfonic acid	5980	5770	97	4	30	59-130	
Perfluoroundecanoic acid	6400	5560	87	8	30	62-138	
6:2 Fluorotelomer sulfonic acid	6070	5880	97	1	30	57-137	
8:2 Fluorotelomer sulfonic acid	6130	6150	100	2	30	56-140	

Column to be used to flag recovery and RPD values

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-12790-1
 SDG No.: _____
 Lab File ID: 20SEP04-20.d Lab Sample ID: MB 410-40650/1-B
 Matrix: Water Date Extracted: 09/03/2020 10:16
 Instrument ID: 30731 Date Analyzed: 09/04/2020 13:28
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-40650/2-B	20SEP04-21. d	09/04/2020 13:38
	LCSD 410-40650/3-B	20SEP04-22. d	09/04/2020 13:48
2-Anvil 10x10	410-12790-2	20SEP08-07. d	09/08/2020 22:17

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-12790-1
 SDG No.: _____
 Lab File ID: 20SEP04-25.d Lab Sample ID: MB 410-40676/1-A
 Matrix: Water Date Extracted: 09/03/2020 11:02
 Instrument ID: 30731 Date Analyzed: 09/04/2020 14:17
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-40676/2-A	20SEP04-26. d	09/04/2020 14:27
	LCSD 410-40676/3-A	20SEP04-27. d	09/04/2020 14:37
1-Field Blank	410-12790-1	20SEP04-47. d	09/04/2020 17:53

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-12790-1
 SDG No.: _____
 Lab File ID: 20SEP09-20.d Lab Sample ID: MB 410-41621/1-B
 Matrix: Water Date Extracted: 09/08/2020 10:16
 Instrument ID: 30731 Date Analyzed: 09/09/2020 17:29
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-41621/2-B	20SEP09-19. d	09/09/2020 17:20
	LCSD 410-41621/3-B	20SEP09-21. d	09/09/2020 17:39
2-Anvil 10x10 RE	410-12790-2 RE	20SEP09-22. d	09/09/2020 17:49

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Instrument ID: 30731 Calibration Start Date: 09/03/2020 13:37
 GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 09/03/2020 14:36
 Calibration ID: 10404

	13C3PFBA		13PFOA		PFOS		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MEAN AREA AND MEAN RT	1696551	3.68	2742410	5.39	1753870	5.71	
UPPER LIMIT	2544827	4.08	4113615	5.79	2630805	6.11	
LOWER LIMIT	848276	3.28	1371205	4.99	876935	5.31	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-40712/8	1729573	3.68	2963968	5.38	1710098	5.70	
ICV 410-40712/9	2034854	3.69	3389443	5.39	2256457	5.71	
CCV 410-41076/22	1629234	3.70	2637399	5.40	1609445	5.73	
MB 410-40650/1-B	1953847	3.70	3389625	5.40	1953788	5.71	
LCS 410-40650/2-B	1958255	3.69	3398124	5.39	2030774	5.71	
LCSD 410-40650/3-B	1934090	3.70	3502843	5.40	2023871	5.72	
CCV 410-41076/27	2213831	3.70	3636043	5.40	2214209	5.73	
MB 410-40676/1-A	1976708	3.70	3466405	5.39	2027907	5.72	
LCS 410-40676/2-A	1925195	3.69	3215843	5.39	1953187	5.71	
LCSD 410-40676/3-A	1903812	3.69	3295713	5.39	1893936	5.71	
CCV 410-41076/50	1618756	3.68	2669782	5.38	1695822	5.70	
410-12790-1	1-Field Blank	1843714	3.68	3044590	5.38	1898836	5.70
CCV 410-41076/51		1597490	3.67	2546502	5.37	1651784	5.69

13C3PFBA = 13C3-PFBA
 13PFOA = 13C2 PFOA
 PFOS = 13C4 PFOS

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Instrument ID: 30731 Calibration Start Date: 09/03/2020 13:37
 GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 09/03/2020 14:36
 Calibration ID: 10404

		PFDA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		2113919	6.03				
UPPER LIMIT		3170879	6.43				
LOWER LIMIT		1056960	5.63				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-40712/8		2137744	6.03				
ICV 410-40712/9		2582756	6.04				
CCV 410-41076/22		2003894	6.04				
MB 410-40650/1-B		2464125	6.04				
LCS 410-40650/2-B		2529692	6.04				
LCSD 410-40650/3-B		2561862	6.05				
CCV 410-41076/27		2996157	6.05				
MB 410-40676/1-A		2586926	6.05				
LCS 410-40676/2-A		2320585	6.03				
LCSD 410-40676/3-A		2380389	6.04				
CCV 410-41076/50		2083995	6.02				
410-12790-1	1-Field Blank	2419885	6.03				
CCV 410-41076/51		2022550	6.01				

PFDA = 13C2 PFDA

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Instrument ID: 30731 Calibration Start Date: 09/08/2020 19:09
 GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 09/08/2020 20:08
 Calibration ID: 10692

	13C3PFBA		13PFOA		PFOS		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MEAN AREA AND MEAN RT	1942860	3.71	3066460	5.41	1894871	5.73	
UPPER LIMIT	2914290	4.11	4599690	5.81	2842307	6.13	
LOWER LIMIT	971430	3.31	1533230	5.01	947436	5.33	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-41778/8	1885869	3.71	3207319	5.41	1859660	5.74	
ICV 410-41778/9	2484411	3.71	3936521	5.41	2406117	5.73	
CCV 410-41807/56	2312406	3.74	4154057	5.44	2069393	5.76	
410-12790-2	2-Anvil 10x10	1838871	3.72	3383940	5.41	1981112	5.74
CCV 410-41807/88	1707554	3.71	2762651	5.41	1650330	5.73	
CCV 410-42076/10	1695458	3.74	2837661	5.44	1546982	5.76	
LCS 410-41621/2-B	1971292	3.70	3333287	5.41	1948860	5.73	
MB 410-41621/1-B	1927538	3.71	3287194	5.42	1923139	5.74	
LCSD 410-41621/3-B	1909033	3.70	3306519	5.41	2003148	5.73	
410-12790-2 RE	2-Anvil 10x10 RE	1957257	3.70	3764477	5.41	2187044	5.73
CCV 410-42076/15		1687405	3.70	2788956	5.41	1794688	5.73

13C3PFBA = 13C3-PFBA
 13PFOA = 13C2 PFOA
 PFOS = 13C4 PFOS

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Instrument ID: 30731 Calibration Start Date: 09/08/2020 19:09
 GC Column: Gemini C18 50mm ID: 3(mm) Calibration End Date: 09/08/2020 20:08
 Calibration ID: 10692

		PFDA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MEAN AREA AND MEAN RT		2337534	6.05				
UPPER LIMIT		3506301	6.45				
LOWER LIMIT		1168767	5.65				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 410-41778/8		2352608	6.05				
ICV 410-41778/9		3000345	6.05				
CCV 410-41807/56		2969499	6.07				
410-12790-2	2-Anvil 10x10	3310265	6.06				
CCV 410-41807/88		2044327	6.05				
CCV 410-42076/10		2150893	6.08				
LCS 410-41621/2-B		2397703	6.05				
MB 410-41621/1-B		2446537	6.06				
LCSD 410-41621/3-B		2599945	6.05				
410-12790-2 RE	2-Anvil 10x10 RE	3652378*3	6.05				
CCV 410-42076/15		2182075	6.05				

PFDA = 13C2 PFDA

Area Limit = 50%-150% of internal standard area
 RT Limit = ± 0.4 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: 1-Field Blank Lab Sample ID: 410-12790-1
 Matrix: Water Lab File ID: 20SEP04-47.d
 Analysis Method: 537 IDA Date Collected: 09/01/2020 11:00
 Extraction Method: 537 IDA Date Extracted: 09/03/2020 11:02
 Sample wt/vol: 270.9(mL) Date Analyzed: 09/04/2020 17:53
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 4(uL) GC Column: Gemini C18 50mm ID: 3(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 41076 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	ND		1.8	0.46
375-85-9	Perfluoroheptanoic acid	ND		1.8	0.46
335-67-1	Perfluorooctanoic acid	ND		1.8	0.46
375-95-1	Perfluorononanoic acid	ND		1.8	0.46
335-76-2	Perfluorodecanoic acid	ND		1.8	0.46
72629-94-8	Perfluorotridecanoic acid	ND		1.8	0.46
376-06-7	Perfluorotetradecanoic acid	ND		1.8	0.46
375-73-5	Perfluorobutanesulfonic acid	ND		1.8	0.46
355-46-4	Perfluorohexanesulfonic acid	ND		1.8	0.46
1763-23-1	Perfluorooctanesulfonic acid	ND		1.8	0.46
2991-50-6	NETFOSAA	ND		2.8	0.46
2355-31-9	NMeFOSAA	ND		1.8	0.55
120226-60-0	10:2 FTS	ND		4.6	0.92
2706-91-4	Perfluoropentanesulfonic acid	ND		1.8	0.46
375-92-8	Perfluoroheptanesulfonic acid	ND		1.8	0.46
68259-12-1	Perfluorononanesulfonic acid	ND		1.8	0.46
335-77-3	Perfluorodecanesulfonic acid	ND		1.8	0.46
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		2.8	0.46
754-91-6	Perfluorooctanesulfonamide	ND		1.8	0.46
67905-19-5	Perfluorohexadecanoic acid	ND		2.8	0.92
16517-11-6	Perfluorooctadecanoic acid	ND		2.8	0.92
375-22-4	Perfluorobutanoic acid	ND		4.6	1.8
2706-90-3	Perfluoropentanoic acid	ND		1.8	0.46
24448-09-7	NMeFOSE	ND		2.8	0.92
31506-32-8	NMeFOSA	ND		2.8	0.92
1691-99-2	NETFOSE	ND		2.8	0.92
4151-50-2	NETFOSA	ND		4.6	0.92
13252-13-6	HFPODA	ND		2.8	0.46
919005-14-4	DONA	ND		1.8	0.46
756426-58-1	9Cl-PF3ONS	ND		1.8	0.46
763051-92-9	11Cl-PF3OUdS	ND		1.8	0.46
307-55-1	Perfluorododecanoic acid	ND		1.8	0.46
757124-72-4	4:2 Fluorotelomer sulfonic acid	ND		1.8	0.46
2058-94-8	Perfluoroundecanoic acid	ND		1.8	0.46

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: 1-Field Blank Lab Sample ID: 410-12790-1
 Matrix: Water Lab File ID: 20SEP04-47.d
 Analysis Method: 537 IDA Date Collected: 09/01/2020 11:00
 Extraction Method: 537 IDA Date Extracted: 09/03/2020 11:02
 Sample wt/vol: 270.9(mL) Date Analyzed: 09/04/2020 17:53
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 4(uL) GC Column: Gemini C18 50mm ID: 3(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 41076 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
27619-97-2	6:2 Fluorotelomer sulfonic acid	ND		4.6	1.8
39108-34-4	8:2 Fluorotelomer sulfonic acid	ND		2.8	0.92

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STI02395	M2-4:2 FTS	102		20-187
STI02280	M2-8:2 FTS	102		34-182
STI02279	M2-6:2 FTS	104		29-189
STI02577	13C5 PFHxA	96		31-142
STI01892	13C4 PFHpA	93		30-144
STI01052	13C8 PFOA	93		49-127
STI02578	13C9 PFNA	97		47-136
STI02579	13C6 PFDA	98		47-128
STI02580	13C7 PFUnA	93		40-135
STI02703	13C2-PFDoDA	90		28-136
STI02116	13C2 PFTeDA	89		10-144
STI02337	13C3 PFBS	90		19-178
STI02581	13C3 PFHxS	91		32-145
STI01054	13C8 PFOS	94		49-126
STI02118	d3-NMeFOSAA	89		32-151
STI02117	d5-NEtFOSAA	92		37-164
STI01056	13C8 FOSA	78		10-143
STI00992	13C4 PFBA	92		41-132
STI01893	13C5 PFPeA	97		33-155
STI02277	d7-N-MeFOSE-M	67		10-143
STI02705	d3-NMePFOSA	45		10-107
STI02278	d9-N-EtFOSE-M	64		10-142
STI02704	d5-NEtPFOSA	44		10-108
STI02255	13C3 HFPO-DA	73		20-153

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: 2-Anvil 10x10 Lab Sample ID: 410-12790-2
 Matrix: Water Lab File ID: 20SEP08-07.d
 Analysis Method: 537 IDA Date Collected: 09/01/2020 11:00
 Extraction Method: EPA 537 (Mod) Date Extracted: 09/03/2020 10:16
 Sample wt/vol: 1(mL) Date Analyzed: 09/08/2020 22:17
 Con. Extract Vol.: 20(mL) Dilution Factor: 1
 Injection Volume: 4(uL) GC Column: Gemini C18 50mm ID: 3(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 41807 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	ND		1000	250
375-85-9	Perfluoroheptanoic acid	ND		1000	250
335-67-1	Perfluorooctanoic acid	ND		1000	250
375-95-1	Perfluorononanoic acid	ND		1000	250
335-76-2	Perfluorodecanoic acid	ND		1000	250
72629-94-8	Perfluorotridecanoic acid	ND		1000	250
376-06-7	Perfluorotetradecanoic acid	ND		1000	250
375-73-5	Perfluorobutanesulfonic acid	ND		1000	250
355-46-4	Perfluorohexanesulfonic acid	ND		1000	250
1763-23-1	Perfluorooctanesulfonic acid	ND		1000	250
2991-50-6	NEtFOSAA	ND		1500	250
2355-31-9	NMeFOSAA	ND		1000	300
120226-60-0	10:2 FTS	ND		2500	500
2706-91-4	Perfluoropentanesulfonic acid	ND		1000	250
375-92-8	Perfluoroheptanesulfonic acid	ND		1000	250
68259-12-1	Perfluorononanesulfonic acid	ND		1000	250
335-77-3	Perfluorodecanesulfonic acid	ND		1000	250
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1500	250
754-91-6	Perfluorooctanesulfonamide	ND		1000	250
67905-19-5	Perfluorohexadecanoic acid	ND		1500	500
16517-11-6	Perfluorooctadecanoic acid	ND		1500	500
375-22-4	Perfluorobutanoic acid	ND		2500	1000
2706-90-3	Perfluoropentanoic acid	ND		1000	250
24448-09-7	NMeFOSE	ND		1500	500
31506-32-8	NMeFOSA	ND		1500	500
1691-99-2	NEtFOSE	ND	* *1	1500	500
4151-50-2	NEtFOSA	ND		2500	500
13252-13-6	HFPODA	ND		1500	250
919005-14-4	DONA	ND		1000	250
756426-58-1	9Cl-PF3ONS	ND		1000	250
763051-92-9	11Cl-PF3OUdS	ND		1000	250
307-55-1	Perfluorododecanoic acid	ND		1000	250
757124-72-4	4:2 Fluorotelomer sulfonic acid	ND		1000	250
2058-94-8	Perfluoroundecanoic acid	ND		1000	250

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: 2-Anvil 10x10 Lab Sample ID: 410-12790-2
 Matrix: Water Lab File ID: 20SEP08-07.d
 Analysis Method: 537 IDA Date Collected: 09/01/2020 11:00
 Extraction Method: EPA 537 (Mod) Date Extracted: 09/03/2020 10:16
 Sample wt/vol: 1(mL) Date Analyzed: 09/08/2020 22:17
 Con. Extract Vol.: 20(mL) Dilution Factor: 1
 Injection Volume: 4(uL) GC Column: Gemini C18 50mm ID: 3(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 41807 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
27619-97-2	6:2 Fluorotelomer sulfonic acid	ND		2500	1000
39108-34-4	8:2 Fluorotelomer sulfonic acid	ND		1500	500

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STI02395	M2-4:2 FTS	110		20-187
STI02280	M2-8:2 FTS	249	*5	34-182
STI02279	M2-6:2 FTS	156		29-189
STI02577	13C5 PFHxA	92		31-142
STI01892	13C4 PFHpA	104		30-144
STI01052	13C8 PFOA	99		49-127
STI02578	13C9 PFNA	134		47-136
STI02579	13C6 PFDA	102		47-128
STI02580	13C7 PFUnA	94		40-135
STI02703	13C2-PFDODA	28		28-136
STI02116	13C2 PFTeDA	81		10-144
STI02337	13C3 PFBS	58		19-178
STI02581	13C3 PFHxS	63		32-145
STI01054	13C8 PFOS	77		49-126
STI02118	d3-NMeFOSAA	162	*5	32-151
STI02117	d5-NEtFOSAA	167	*5	37-164
STI01056	13C8 FOSA	81		10-143
STI00992	13C4 PFBA	94		41-132
STI01893	13C5 PFPeA	100		33-155
STI02277	d7-N-MeFOSE-M	50		10-143
STI02705	d3-NMePFOSA	73		10-107
STI02278	d9-N-EtFOSE-M	179	*5	10-142
STI02704	d5-NEtPFOSA	102		10-108
STI02255	13C3 HFPO-DA	70		20-153

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: 2-Anvil 10x10 RE Lab Sample ID: 410-12790-2 RE
 Matrix: Water Lab File ID: 20SEP09-22.d
 Analysis Method: 537 IDA Date Collected: 09/01/2020 11:00
 Extraction Method: EPA 537 (Mod) Date Extracted: 09/08/2020 10:16
 Sample wt/vol: 1(mL) Date Analyzed: 09/09/2020 17:49
 Con. Extract Vol.: 20(mL) Dilution Factor: 1
 Injection Volume: 4(uL) GC Column: Gemini C18 50mm ID: 3(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 42076 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	ND		1000	250
375-85-9	Perfluoroheptanoic acid	ND		1000	250
335-67-1	Perfluorooctanoic acid	ND		1000	250
375-95-1	Perfluorononanoic acid	ND		1000	250
335-76-2	Perfluorodecanoic acid	ND		1000	250
72629-94-8	Perfluorotridecanoic acid	ND		1000	250
376-06-7	Perfluorotetradecanoic acid	ND		1000	250
375-73-5	Perfluorobutanesulfonic acid	ND		1000	250
355-46-4	Perfluorohexanesulfonic acid	ND		1000	250
1763-23-1	Perfluorooctanesulfonic acid	ND		1000	250
2991-50-6	NEtFOSAA	ND		1500	250
2355-31-9	NMeFOSAA	ND		1000	300
120226-60-0	10:2 FTS	ND	*	2500	500
2706-91-4	Perfluoropentanesulfonic acid	ND		1000	250
375-92-8	Perfluoroheptanesulfonic acid	ND		1000	250
68259-12-1	Perfluorononanesulfonic acid	ND		1000	250
335-77-3	Perfluorodecanesulfonic acid	ND		1000	250
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1500	250
754-91-6	Perfluorooctanesulfonamide	ND		1000	250
67905-19-5	Perfluorohexadecanoic acid	ND		1500	500
16517-11-6	Perfluorooctadecanoic acid	ND		1500	500
375-22-4	Perfluorobutanoic acid	ND		2500	1000
2706-90-3	Perfluoropentanoic acid	ND		1000	250
24448-09-7	NMeFOSE	ND		1500	500
31506-32-8	NMeFOSA	ND		1500	500
1691-99-2	NEtFOSE	ND	*1	1500	500
4151-50-2	NEtFOSA	ND		2500	500
13252-13-6	HFPODA	ND		1500	250
919005-14-4	DONA	ND		1000	250
756426-58-1	9Cl-PF3ONS	ND		1000	250
763051-92-9	11Cl-PF3OUdS	ND		1000	250
307-55-1	Perfluorododecanoic acid	ND		1000	250
757124-72-4	4:2 Fluorotelomer sulfonic acid	ND		1000	250
2058-94-8	Perfluoroundecanoic acid	ND		1000	250

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: 2-Anvil 10x10 RE Lab Sample ID: 410-12790-2 RE
 Matrix: Water Lab File ID: 20SEP09-22.d
 Analysis Method: 537 IDA Date Collected: 09/01/2020 11:00
 Extraction Method: EPA 537 (Mod) Date Extracted: 09/08/2020 10:16
 Sample wt/vol: 1(mL) Date Analyzed: 09/09/2020 17:49
 Con. Extract Vol.: 20(mL) Dilution Factor: 1
 Injection Volume: 4(uL) GC Column: Gemini C18 50mm ID: 3(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 42076 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
27619-97-2	6:2 Fluorotelomer sulfonic acid	6100		2500	1000
39108-34-4	8:2 Fluorotelomer sulfonic acid	1100	J	1500	500

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STI02395	M2-4:2 FTS	114		20-187
STI02280	M2-8:2 FTS	291	*5	34-182
STI02279	M2-6:2 FTS	161		29-189
STI02577	13C5 PFHxA	100		31-142
STI01892	13C4 PFHpA	112		30-144
STI01052	13C8 PFOA	105		49-127
STI02578	13C9 PFNA	139	*5	47-136
STI02579	13C6 PFDA	109		47-128
STI02580	13C7 PFUnA	101		40-135
STI02703	13C2-PFDODA	46		28-136
STI02116	13C2 PFTeDA	83		10-144
STI02337	13C3 PFBS	112		19-178
STI02581	13C3 PFHxS	93		32-145
STI01054	13C8 PFOS	105		49-126
STI02118	d3-NMeFOSAA	155	*5	32-151
STI02117	d5-NEtFOSAA	154		37-164
STI01056	13C8 FOSA	74		10-143
STI00992	13C4 PFBA	109		41-132
STI01893	13C5 PFPeA	113		33-155
STI02277	d7-N-MeFOSE-M	48		10-143
STI02705	d3-NMePFOSA	64		10-107
STI02278	d9-N-EtFOSE-M	156	*5	10-142
STI02704	d5-NEtPFOSA	91		10-108
STI02255	13C3 HFPO-DA	53		20-153

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 40712

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/03/2020 13:37 Calibration End Date: 09/03/2020 14:36 Calibration ID: 10404

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-40712/1	20SEP03MCAL-05.d
Level 2	IC 410-40712/2	20SEP03MCAL-06.d
Level 3	IC 410-40712/3	20SEP03MCAL-07.d
Level 4	IC 410-40712/4	20SEP03MCAL-08.d
Level 5	ICISAV 410-40712/5	20SEP03MCAL-09.d
Level 6	IC 410-40712/6	20SEP03MCAL-10.d
Level 7	IC 410-40712/7	20SEP03MCAL-11.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Perfluorobutanoic acid	0.9276 0.8725	0.9159 0.8202	0.8173	0.8199	0.8777	LID1F		0.8414			6.3			0.9990		0.9900	
Perfluoropentanoic acid	1.0680 1.0147	1.1210 0.9202	0.9499	0.9481	1.0089	LID1F		0.9585			9.1			0.9980		0.9900	
Perfluorobutanesulfonic acid	0.7815 1.0632	0.8332 1.0751	0.8448	0.9769	1.0068	LID1F		1.0564			16.4			0.9990		0.9900	
4:2 Fluorotelomer sulfonic acid	2.6371 2.9435	2.6673 2.7017	2.5990	2.4999	2.9838	LID1F		2.7896			7.0			0.9970		0.9900	
Perfluorohexanoic acid	0.6257 0.8312	0.6661 0.8562	0.6613	0.8306	0.8032	LID1F		0.8393			16.1			0.9990		0.9900	
Perfluoropentanesulfonic acid	0.8119 0.9142	0.8958 0.8241	0.8571	0.8794	0.9030	LID1F		0.8608			4.7			0.9980		0.9900	
HFPODA	1.1081 1.4795	1.2406 1.5003	1.1313	1.3694	1.4522	LID1F		1.4782			15.8			0.9990		0.9900	
Perfluorohexanesulfonic acid	0.8390 1.0712	0.8721 1.0875	0.8844	0.9951	1.0587	LID1F		1.0726			14.1			0.9990		0.9900	
Perfluoroheptanoic acid	0.9413 1.1424	1.0287 1.1160	1.0380	1.1971	1.2237	LID1F		1.1375			9.6			0.9990		0.9900	
DONA	1.4862 1.8869	1.6730 1.9376	1.6473	1.9192	1.9153	LID1F		1.9159			12.0			1.0000		0.9900	
6:2 Fluorotelomer sulfonic acid	5.7498 5.1157	5.1683 4.9554	5.0692	5.1730	5.2755	LID1F		5.0475			6.2			0.9990		0.9900	
Perfluoroheptanesulfonic acid	0.9349 1.0003	1.0160 0.9084	0.9337	0.9359	0.9943	LID1F		0.9452			4.8			0.9980		0.9900	
Perfluorooctanoic acid	0.8545 0.8358	0.8537 0.8834	0.7715	0.8645	0.8683	LID1F		0.8664			4.8			0.9990		0.9900	
Perfluorooctanesulfonic acid	0.9622 1.0515	0.9927 1.1258	0.9165	1.0592	1.0747	LID1F		1.0938			9.4			0.9990		0.9900	

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 40712

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/03/2020 13:37 Calibration End Date: 09/03/2020 14:36 Calibration ID: 10404

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Perfluorononanoic acid	0.7895 0.8876	0.7662 0.9625	0.7786	0.9083	0.9139	LID1F		0.9312			11.9			0.9980		0.9900	
9Cl-PF3ONS	1.7406 2.0423	1.8172 2.0982	1.7245	2.0004	2.1297	LID1F		2.0766			11.0			0.9990		0.9900	
Perfluorononanesulfonic acid	1.1458 1.1329	1.2615 1.0225	1.0809	1.0405	1.1940	LID1F		1.0743			9.4			0.9960		0.9900	
Perfluorodecanoic acid	0.6748 0.7806	0.7059 0.8087	0.6932	0.7736	0.8087	LID1F		0.7976			9.6			0.9990		0.9900	
8:2 Fluorotelomer sulfonic acid	6.3030 6.7446	6.9937 6.3913	6.4109	6.4553	7.0985	LID1F		6.5720			4.9			0.9990		0.9900	
Perfluorooctanesulfonamide	0.9055 1.0539	0.9480 0.9341	0.9634	0.9645	0.9939	LID1F		0.9755			5.0			0.9970		0.9900	
NMeFOSAA	0.7098 0.9274	0.6930 0.9028	0.7910	0.9122	0.9132	LID1F		0.9091			14.3			0.9990		0.9900	
Perfluorodecanesulfonic acid	0.9239 1.0206	1.1376 0.9768	0.9944	0.9547	1.0695	LID1F		0.9988			7.4			0.9990		0.9900	
Perfluoroundecanoic acid	0.5785 0.8028	0.6806 0.7801	0.7310	0.7511	0.8293	LID1F		0.7895			13.0			0.9990		0.9900	
NEtFOSAA	0.7990 1.0007	0.8816 1.0044	0.8128	0.9386	0.9519	LID1F		0.9919			12.1			0.9990		0.9900	
11Cl-PF3OUdS	1.1607 1.5355	1.4031 1.5680	1.2910	1.5172	1.5517	LID1F		1.5510			13.0			0.9990		0.9900	
Perfluorododecanoic acid	0.7069 0.8914	0.7831 0.8552	0.7351	0.8931	0.8903	LID1F		0.8691			10.9			0.9990		0.9900	
10:2 FTS	6.9129 7.9549	9.3632 8.0501	7.0877	8.2404	8.5143	LID1F		8.0753			10.4			0.9990		0.9900	
NMeFOSE	1.0848 1.0819	1.0459 1.0532	0.9931	0.9944	1.0933	LID1F		1.0623			4.1			1.0000		0.9900	
NMeFOSA	1.0290 1.0309	0.9723 0.9296	0.9806	0.9474	0.9835	LID1F		0.9652			4.4			0.9980		0.9900	
Perfluorododecanesulfonic acid (PFDoS)	0.6643 0.7407	0.7933 0.7000	0.6999	0.6848	0.7802	LID1F		0.7197			6.9			0.9980		0.9900	
NEtFOSE	1.0444 1.1432	1.2341 1.1303	1.0643	1.0709	1.1561	LID1F		1.1335			6.0			1.0000		0.9900	
Perfluorotridecanoic acid	0.7194 0.8279	0.7612 0.8027	0.7508	0.8197	0.8848	LID1F		0.8187			7.5			0.9990		0.9900	
NEtFOSA	0.8926 1.0861	1.0951 1.0729	0.9326	0.9788	1.0728	LID1F		1.0707			9.3			0.9990		0.9900	
Perfluorotetradecanoic acid	0.8556 0.9258	0.8935 0.9142	0.8466	0.9970	0.9531	LID1F		0.9245			5.9			0.9990		0.9900	

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 40712

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/03/2020 13:37 Calibration End Date: 09/03/2020 14:36 Calibration ID: 10404

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Perfluorohexadecanoic acid	0.4811 0.4027	0.4955 0.3682	0.3918	0.3879	0.3885	LID1F		0.3816			16.5			0.9980		0.9900	
Perfluorooctadecanoic acid	0.2047 0.2240	0.2326 0.2087	0.1945	0.2063	0.2079	LID1F		0.2126			6.1			0.9990		0.9900	
13C4 PFBA	1.1189 1.1283	1.2576 1.1963	1.0819	1.1938	1.1238	Ave		1.1572			5.2		20.0				
13C5 PFPeA	0.9620 0.9893	1.1104 1.0901	0.9927	1.0689	0.9979	Ave		1.0302			5.6		20.0				
13C3 PFBS	1.1484 1.2179	1.3236 1.3185	1.1642	1.2734	1.2481	Ave		1.2420			5.6		20.0				
M2-4:2 FTS	0.0627 0.0732	0.0683 0.0785	0.0626	0.0687	0.0713	Ave		0.0693			8.2		20.0				
13C5 PFHxA	0.7658 0.8060	0.8334 0.8406	0.7491	0.7667	0.8126	Ave		0.7963			4.5		20.0				
13C3 HFPO-DA	0.1475 0.1453	0.1457 0.1622	0.1350	0.1393	0.1404	Ave		0.1451			6.0		20.0				
13C3 PFHxS	0.6342 0.6644	0.6604 0.7090	0.6011	0.6484	0.6651	Ave		0.6547			5.0		20.0				
13C4 PFHpA	0.6960 0.7376	0.7127 0.7982	0.6364	0.6800	0.7212	Ave		0.7117			7.1		20.0				
M2-6:2 FTS	0.0311 0.0341	0.0364 0.0329	0.0315	0.0335	0.0338	Ave		0.0333			5.3		20.0				
13C8 PFOA	0.9920 1.0322	1.0087 1.0475	0.9483	0.9853	0.9830	Ave		0.9996			3.3		20.0				
13C8 PFOS	0.9839 1.0135	1.0551 1.0685	0.9452	1.0077	0.9797	Ave		1.0077			4.3		20.0				
13C9 PFNA	1.0970 1.0859	1.1999 1.0959	1.0766	1.1384	1.1196	Ave		1.1162			3.8		20.0				
13C6 PFDA	1.2219 1.1726	1.3046 1.1841	1.1188	1.2511	1.2072	Ave		1.2086			4.9		20.0				
M2-8:2 FTS	0.0248 0.0259	0.0287 0.0250	0.0254	0.0273	0.0268	Ave		0.0263			5.4		20.0				
13C8 FOSA	1.4484 1.3911	1.6760 1.4962	1.3306	1.5128	1.4318	Ave		1.4696			7.5		20.0				
d3-NMeFOSAA	0.3656 0.4002	0.4231 0.4390	0.3376	0.4004	0.3928	Ave		0.3941			8.6		20.0				
13C7 PFUnA	1.3605 1.3043	1.6309 1.4135	1.2822	1.4942	1.3828	Ave		1.4098			8.5		20.0				
d5-NEtFOSAA	0.2764 0.2572	0.3009 0.2763	0.2353	0.2878	0.2772	Ave		0.2730			7.8		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 40712

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/03/2020 13:37 Calibration End Date: 09/03/2020 14:36 Calibration ID: 10404

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
13C2-PFDoDA	1.3826 1.3443	1.6150 1.4912	1.3686	1.5008	1.4300	Ave		1.4475			6.6		20.0				
d7-N-MeFOSE-M	0.2241 0.2378	0.2612 0.2633	0.2138	0.2445	0.2275	Ave		0.2389			7.8		20.0				
d3-NMePFOSA	0.1382 0.1433	0.1535 0.1691	0.1266	0.1489	0.1438	Ave		0.1462			9.0		20.0				
d9-N-EtFOSE-M	0.2257 0.2360	0.2592 0.2407	0.2199	0.2465	0.2295	Ave		0.2368			5.6		20.0				
d5-NEtPFOSA	0.1330 0.1353	0.1502 0.1446	0.1266	0.1427	0.1324	Ave		0.1378			6.0		20.0				
13C2 PFTeDA	1.2161 1.2383	1.2928 1.3661	1.1476	1.2531	1.2982	Ave		1.2589			5.5		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 40712

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/03/2020 13:37 Calibration End Date: 09/03/2020 14:36 Calibration ID: 10404

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-40712/1	20SEP03MCAL-05.d
Level 2	IC 410-40712/2	20SEP03MCAL-06.d
Level 3	IC 410-40712/3	20SEP03MCAL-07.d
Level 4	IC 410-40712/4	20SEP03MCAL-08.d
Level 5	ICISAV 410-40712/5	20SEP03MCAL-09.d
Level 6	IC 410-40712/6	20SEP03MCAL-10.d
Level 7	IC 410-40712/7	20SEP03MCAL-11.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Perfluorobutanoic acid		LID1F	84521 14823828	204228 26821033	721167	2436234	6312673	0.200 50.0	0.500 100	2.00	8.00	20.0
Perfluoropentanoic acid		LID1F	83663 15116514	220711 27419462	769064	2522346	6443636	0.200 50.0	0.500 100	2.00	8.00	20.0
Perfluorobutanesulfonic acid		LID1F	64675 17255567	173065 34291487	709910	2740106	7117036	0.177 44.3	0.443 88.5	1.77	7.08	17.7
4:2 Fluorotelomer sulfonic acid		LID1F	19574 4681523	51228 8270146	208738	684124	1989264	0.187 46.7	0.467 93.4	1.87	7.47	18.7
Perfluorohexanoic acid		LID1F	60748 15587725	167253 30032816	680185	2715844	6535376	0.200 50.0	0.500 100	2.00	8.00	20.0
Perfluoropentanesulfonic acid		LID1F	71215 15726591	197197 27860267	763406	2614286	6765566	0.188 46.9	0.469 93.8	1.88	7.50	18.8
HFPODA		LID1F	20721 5001003	54454 10156406	209661	813267	2042344	0.200 50.0	0.500 100	2.00	8.00	20.0
Perfluorohexanesulfonic acid		LID1F	61517 15101031	158250 29346656	665730	2509266	6431031	0.182 45.6	0.456 91.2	1.82	7.30	18.2
Perfluoroheptanoic acid		LID1F	83050 19605201	220883 37176142	906996	3471510	8837835	0.200 50.0	0.500 100	2.00	8.00	20.0
DONA		LID1F	123919 30599963	339463 60995770	1360260	5259366	13072521	0.189 47.3	0.473 94.5	1.89	7.56	18.9
6:2 Fluorotelomer sulfonic acid		LID1F	21469 3847257	53763 6450719	208109	701353	1692592	0.190 47.4	0.474 94.8	1.90	7.58	19.0
Perfluoroheptanesulfonic acid		LID1F	71555 14719467	192450 25589299	733734	2463339	6304410	0.190 47.6	0.476 95.2	1.90	7.62	19.0
Perfluorooctanoic acid		LID1F	107469 20073709	259424 38615139	1004552	3632417	8547580	0.200 50.0	0.500 100	2.00	8.00	20.0
Perfluorooctanesulfonic acid		LID1F	74679 16133514	178736 33135162	716848	2765503	6828885	0.185 46.3	0.463 92.6	1.85	7.40	18.5
Perfluorononanoic acid		LID1F	73816 15765414	169517 31393847	749543	2894577	7170686	0.200 50.0	0.500 100	2.00	8.00	20.0

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 40712

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/03/2020 13:37 Calibration End Date: 09/03/2020 14:36 Calibration ID: 10404

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
9Cl-PF3ONS		LID1F	135744 31486433	328788 62057548	1355392	5248016	13598580	0.186 46.5	0.465 93.0	1.86	7.44	18.6
Perfluorononanesulfonic acid		LID1F	92242 18029484	235609 31217869	876979	2817856	7869811	0.192 48.0	0.480 96.0	1.92	7.68	19.2
Perfluorodecanoic acid		LID1F	82349 17366518	198461 31963366	816819	3048926	7722778	0.200 50.0	0.500 100	2.00	8.00	20.0
8:2 Fluorotelomer sulfonic acid		LID1F	14929 3179494	41414 5105635	164502	531323	1440889	0.192 47.9	0.479 95.8	1.92	7.66	19.2
Perfluorooctanesulfonamide		LID1F	130993 27815240	342402 46651306	1350086	4596382	11256290	0.200 50.0	0.500 100	2.00	8.00	20.0
NMeFOSAA		LID1F	25914 7041589	63184 13228397	281261	1150680	2837573	0.200 50.0	0.500 100	2.00	8.00	20.0
Perfluorodecanesulfonic acid		LID1F	74687 16310792	213351 29947646	810130	2596195	7078922	0.193 48.2	0.482 96.4	1.93	7.71	19.3
Perfluoroundecanoic acid		LID1F	78606 19865413	239193 36806137	987109	3535310	9071233	0.200 50.0	0.500 100	2.00	8.00	20.0
NEtFOSAA		LID1F	22053 4883917	57159 9262482	201461	850878	2087000	0.200 50.0	0.500 100	2.00	8.00	20.0
11Cl-PF3OUdS		LID1F	90523 23673955	253868 46375246	1014740	3980465	9908087	0.186 46.5	0.465 93.0	1.86	7.44	18.6
Perfluorododecanoic acid		LID1F	97603 22735321	272522 42569241	1059600	4222270	10071289	0.200 50.0	0.500 100	2.00	8.00	20.0
10:2 FTS		LID1F	16476 3773499	55793 6470982	183007	682499	1739110	0.193 48.2	0.482 96.4	1.93	7.71	19.3
NMeFOSE		LID1F	24277 4881275	58873 9256105	223623	765980	1967870	0.200 50.0	0.500 100	2.00	8.00	20.0
NMeFOSA		LID1F	14198 2802721	32172 5246044	130790	444336	1118707	0.200 50.0	0.500 100	2.00	8.00	20.0
Perfluorododecanesulfonic acid (PFDoS)		LID1F	53928 11887067	149395 21548884	572601	1870048	5185589	0.194 48.4	0.484 96.8	1.94	7.74	19.4
NEtFOSE		LID1F	23547 5119757	68934 9081356	246499	831649	2098323	0.200 50.0	0.500 100	2.00	8.00	20.0
Perfluorotridecanoic acid		LID1F	99330 21116638	264914 39957337	1082141	3875151	10008632	0.200 50.0	0.500 100	2.00	8.00	20.0
NEtFOSA		LID1F	11856 2787219	35442 5177461	124307	439940	1123609	0.200 50.0	0.500 100	2.00	8.00	20.0
Perfluorotetradecanoic acid		LID1F	103919 21750909	248928 41685800	1023265	3935767	9787496	0.200 50.0	0.500 100	2.00	8.00	20.0
Perfluorohexadecanoic acid		LID1F	58433 9461266	138036 16790348	473528	1531279	3989413	0.200 50.0	0.500 100	2.00	8.00	20.0
Perfluorooctadecanoic acid		LID1F	24857 5261826	64801 9518687	235058	814211	2134430	0.200 50.0	0.500 100	2.00	8.00	20.0

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 40712

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/03/2020 13:37 Calibration End Date: 09/03/2020 14:36 Calibration ID: 10404

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
13C4 PFBA	13C3 PFBA	Ave	4555657 3397869	4459768 3269961	4411942	3714386	3596117	10.0 10.0	10.0 10.0	10.0	10.0	10.0
13C5 PFPeA	13C3 PFBA	Ave	3916764 2979411	3937781 2979607	4047971	3325605	3193320	10.0 10.0	10.0 10.0	10.0	10.0	10.0
13C3 PFBS	13C3 PFBA	Ave	4376474 3433155	4393512 3373355	4443749	3708236	3738310	9.36 9.36	9.36 9.36	9.36	9.36	9.36
M2-4:2 FTS	13PF OA	Ave	371124 318089	384117 306106	401568	342078	333347	9.34 9.34	9.34 9.34	9.34	9.34	9.34
13C5 PFHxA	13PF OA	Ave	4854307 3750858	5021501 3507815	5143057	4086989	4068498	10.0 10.0	10.0 10.0	10.0	10.0	10.0
13C3 HFPO-DA	13PF OA	Ave	935003 676041	877844 676954	926656	742343	703170	10.0 10.0	10.0 10.0	10.0	10.0	10.0
13C3 PFHxS	13PF OA	Ave	3802742 2924603	3764334 2799086	3904264	3269482	3150446	9.46 9.46	9.46 9.46	9.46	9.46	9.46
13C4 PFHpA	13PF OA	Ave	4411682 3432228	4294277 3331169	4368946	3624944	3611242	10.0 10.0	10.0 10.0	10.0	10.0	10.0
M2-6:2 FTS	13PF OA	Ave	187086 150726	208486 130451	205703	169831	160759	9.50 9.50	9.50 9.50	9.50	9.50	9.50
13C8 PFOA	13PF OA	Ave	6288138 4803300	6077976 4371435	6510659	5251923	4921946	10.0 10.0	10.0 10.0	10.0	10.0	10.0
13C8 PFOS	PFOS	Ave	4010523 3171352	3721740 3041962	4041896	3372844	3283569	9.57 9.57	9.57 9.57	9.57	9.57	9.57
13C9 PFNA	PFOS	Ave	4675070 3552458	4424662 3261858	4813194	3983604	3922994	10.0 10.0	10.0 10.0	10.0	10.0	10.0
13C6 PFDA	PFDA	Ave	6101422 4449758	5622549 3952504	5891629	4926603	4774557	10.0 10.0	10.0 10.0	10.0	10.0	10.0
M2-8:2 FTS	PFDA	Ave	118427 94282	118433 79884	128299	102885	101493	9.58 9.58	9.58 9.58	9.58	9.58	9.58
13C8 FOSA	PFDA	Ave	7232830 5278590	7223377 4994330	7006944	5957050	5662789	10.0 10.0	10.0 10.0	10.0	10.0	10.0
d3-NMeFOSAA	PFDA	Ave	1825512 1518528	1823361 1465262	1777803	1576804	1553649	10.0 10.0	10.0 10.0	10.0	10.0	10.0
13C7 PFUnA	PFDA	Ave	6793891 4949292	7028847 4718263	6751721	5883674	5469205	10.0 10.0	10.0 10.0	10.0	10.0	10.0
d5-NetFOSAA	PFDA	Ave	1379996 976089	1296643 922220	1239244	1133139	1096269	10.0 10.0	10.0 10.0	10.0	10.0	10.0
13C2-PFDoDA	PFDA	Ave	6904073 5101277	6960379 4977729	7206769	5909575	5655833	10.0 10.0	10.0 10.0	10.0	10.0	10.0
d7-N-MeFOSE-M	PFDA	Ave	1118913 902365	1125811 878868	1125838	962850	899974	10.0 10.0	10.0 10.0	10.0	10.0	10.0
d3-NMePFOSA	PFDA	Ave	689867 543731	661776 564355	666872	586262	568750	10.0 10.0	10.0 10.0	10.0	10.0	10.0

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 40712

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/03/2020 13:37 Calibration End Date: 09/03/2020 14:36 Calibration ID: 10404

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
d9-N-EtFOSE-M	PFDA	Ave	1127260 895720	1117112 803474	1158008	970710	907519	10.0 10.0	10.0 10.0	10.0	10.0	10.0
d5-NEtPFOSA	PFDA	Ave	664158 513239	647261 482585	666487	561862	523671	10.0 10.0	10.0 10.0	10.0	10.0	10.0
13C2 PFTeDA	PFDA	Ave	6072805 4698953	5572042 4559933	6043274	4934404	5134507	10.0 10.0	10.0 10.0	10.0	10.0	10.0

Curve Type Legend:

Ave = Average ISTD LID1F = Linear 1/Conc IsoDil FZ

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 40712

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/03/2020 13:37 Calibration End Date: 09/03/2020 14:36 Calibration ID: 10404

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-40712/1	20SEP03MCAL-05.d
Level 2	IC 410-40712/2	20SEP03MCAL-06.d
Level 3	IC 410-40712/3	20SEP03MCAL-07.d
Level 4	IC 410-40712/4	20SEP03MCAL-08.d
Level 5	ICISAV 410-40712/5	20SEP03MCAL-09.d
Level 6	IC 410-40712/6	20SEP03MCAL-10.d
Level 7	IC 410-40712/7	20SEP03MCAL-11.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Perfluorobutanoic acid	10.3 -2.5	8.9	-2.9	-2.6	4.3	3.7	50 30	30	30	30	30	30
Perfluoropentanoic acid	11.4 -4.0	17.0	-0.9	-1.1	5.3	5.9	50 30	30	30	30	30	30
Perfluorobutanesulfonic acid	-26.0 1.8	-21.1	-20.0	-7.5	-4.7	0.6	50 30	30	30	30	30	30
4:2 Fluorotelomer sulfonic acid	-5.5 -3.2	-4.4	-6.8	-10.4	7.0	5.5	50 30	30	30	30	30	30
Perfluorohexanoic acid	-25.4 2.0	-20.6	-21.2	-1.0	-4.3	-1.0	50 30	30	30	30	30	30
Perfluoropentanesulfonic acid	-5.7 -4.3	4.1	-0.4	2.2	4.9	6.2	50 30	30	30	30	30	30
HPFODA	-25.0 1.5	-16.1	-23.5	-7.4	-1.8	0.1	50 30	30	30	30	30	30
Perfluorohexanesulfonic acid	-21.8 1.4	-18.7	-17.6	-7.2	-1.3	-0.1	50 30	30	30	30	30	30
Perfluoroheptanoic acid	-17.3 -1.9	-9.6	-8.7	5.2	7.6	0.4	50 30	30	30	30	30	30
DONA	-22.4 1.1	-12.7	-14.0	0.2	0.0	-1.5	50 30	30	30	30	30	30
6:2 Fluorotelomer sulfonic acid	13.9 -1.8	2.4	0.4	2.5	4.5	1.4	50 30	30	30	30	30	30
Perfluoroheptanesulfonic acid	-1.1 -3.9	7.5	-1.2	-1.0	5.2	5.8	50 30	30	30	30	30	30
Perfluorooctanoic acid	-1.4 2.0	-1.5	-11.0	-0.2	0.2	-3.5	50 30	30	30	30	30	30
Perfluorooctanesulfonic acid	-12.0 2.9	-9.2	-16.2	-3.2	-1.7	-3.9	50 30	30	30	30	30	30
Perfluorononanoic acid	-15.2 3.4	-17.7	-16.4	-2.5	-1.9	-4.7	50 30	30	30	30	30	30

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 40712

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/03/2020 13:37 Calibration End Date: 09/03/2020 14:36 Calibration ID: 10404

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
9Cl-PF3ONS	-16.2 1.0	-12.5	-17.0	-3.7	2.6	-1.7	50 30	30	30	30	30	30
Perfluorononanesulfonic acid	6.7 -4.8	17.4	0.6	-3.1	11.1	5.5	50 30	30	30	30	30	30
Perfluorodecanoic acid	-15.4 1.4	-11.5	-13.1	-3.0	1.4	-2.1	50 30	30	30	30	30	30
8:2 Fluorotelomer sulfonic acid	-4.1 -2.7	6.4	-2.5	-1.8	8.0	2.6	50 30	30	30	30	30	30
Perfluorooctanesulfonamide	-7.2 -4.2	-2.8	-1.2	-1.1	1.9	8.0	50 30	30	30	30	30	30
NMeFOSAA	-21.9 -0.7	-23.8	-13.0	0.3	0.4	2.0	50 30	30	30	30	30	30
Perfluorodecanesulfonic acid	-7.5 -2.2	13.9	-0.4	-4.4	7.1	2.2	50 30	30	30	30	30	30
Perfluoroundecanoic acid	-26.7 -1.2	-13.8	-7.4	-4.9	5.0	1.7	50 30	30	30	30	30	30
NEtFOSAA	-19.4 1.3	-11.1	-18.1	-5.4	-4.0	0.9	50 30	30	30	30	30	30
11Cl-PF3OUds	-25.2 1.1	-9.5	-16.8	-2.2	0.0	-1.0	50 30	30	30	30	30	30
Perfluorododecanoic acid	-18.7 -1.6	-9.9	-15.4	2.8	2.4	2.6	50 30	30	30	30	30	30
10:2 FTS	-14.4 -0.3	15.9	-12.2	2.0	5.4	-1.5	50 30	30	30	30	30	30
NMeFOSE	2.1 -0.9	-1.5	-6.5	-6.4	2.9	1.8	50 30	30	30	30	30	30
NMeFOSA	6.6 -3.7	0.7	1.6	-1.8	1.9	6.8	50 30	30	30	30	30	30
Perfluorododecanesulfonic acid (PFDoS)	-7.7 -2.7	10.2	-2.7	-4.8	8.4	2.9	50 30	30	30	30	30	30
NEtFOSE	-7.9 -0.3	8.9	-6.1	-5.5	2.0	0.9	50 30	30	30	30	30	30
Perfluorotridecanoic acid	-12.1 -2.0	-7.0	-8.3	0.1	8.1	1.1	50 30	30	30	30	30	30
NEtFOSA	-16.6 0.2	2.3	-12.9	-8.6	0.2	1.4	50 30	30	30	30	30	30
Perfluorotetradecanoic acid	-7.5 -1.1	-3.4	-8.4	7.8	3.1	0.1	50 30	30	30	30	30	30
Perfluorohexadecanoic acid	26.1 -3.5	29.8	2.7	1.7	1.8	5.5	50 30	30	30	30	30	30
Perfluorooctadecanoic acid	-3.8 -1.8	9.4	-8.5	-3.0	-2.3	5.3	50 30	30	30	30	30	30

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 40712

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/03/2020 13:37 Calibration End Date: 09/03/2020 14:36 Calibration ID: 10404

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
13C4 PFBA	-3.3 3.4	8.7	-6.5	3.2	-2.9	-2.5	50 30	30	30	30	30	30
13C5 PFPeA	-6.6 5.8	7.8	-3.6	3.8	-3.1	-4.0	50 30	30	30	30	30	30
13C3 PFBS	-7.5 6.2	6.6	-6.3	2.5	0.5	-1.9	50 30	30	30	30	30	30
M2-4:2 FTS	-9.6 13.3	-1.5	-9.7	-0.9	2.8	5.6	50 30	30	30	30	30	30
13C5 PFHxA	-3.8 5.6	4.7	-5.9	-3.7	2.0	1.2	50 30	30	30	30	30	30
13C3 HFPO-DA	1.7 11.8	0.4	-6.9	-4.0	-3.2	0.2	50 30	30	30	30	30	30
13C3 PFHxS	-3.1 8.3	0.9	-8.2	-1.0	1.6	1.5	50 30	30	30	30	30	30
13C4 PFHpA	-2.2 12.2	0.1	-10.6	-4.5	1.3	3.6	50 30	30	30	30	30	30
M2-6:2 FTS	-6.8 -1.3	9.3	-5.4	0.6	1.4	2.3	50 30	30	30	30	30	30
13C8 PFOA	-0.8 4.8	0.9	-5.1	-1.4	-1.7	3.3	50 30	30	30	30	30	30
13C8 PFOS	-2.4 6.0	4.7	-6.2	0.0	-2.8	0.6	50 30	30	30	30	30	30
13C9 PFNA	-1.7 -1.8	7.5	-3.5	2.0	0.3	-2.7	50 30	30	30	30	30	30
13C6 PFDA	1.1 -2.0	7.9	-7.4	3.5	-0.1	-3.0	50 30	30	30	30	30	30
M2-8:2 FTS	-5.7 -4.9	9.2	-3.2	3.8	2.0	-1.3	50 30	30	30	30	30	30
13C8 FOSA	-1.4 1.8	14.0	-9.5	2.9	-2.6	-5.3	50 30	30	30	30	30	30
d3-NMeFOSAA	-7.2 11.4	7.4	-14.3	1.6	-0.3	1.5	50 30	30	30	30	30	30
13C7 PFUnA	-3.5 0.3	15.7	-9.1	6.0	-1.9	-7.5	50 30	30	30	30	30	30
d5-NEtFOSAA	1.2 1.2	10.2	-13.8	5.4	1.5	-5.8	50 30	30	30	30	30	30
13C2-PFDoDA	-4.5 3.0	11.6	-5.5	3.7	-1.2	-7.1	50 30	30	30	30	30	30
d7-N-MeFOSE-M	-6.2 10.2	9.3	-10.5	2.4	-4.7	-0.5	50 30	30	30	30	30	30
d3-NMePFOSA	-5.5 15.6	5.0	-13.4	1.8	-1.6	-2.0	50 30	30	30	30	30	30

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 40712

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/03/2020 13:37 Calibration End Date: 09/03/2020 14:36 Calibration ID: 10404

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #						LVL 7					
d9-N-EtFOSE-M	-4.7 1.7	9.5	-7.1	4.1	-3.1	-0.3	50 30	30	30	30	30	30
d5-NEtPFOSA	-3.5 4.9	9.0	-8.2	3.5	-3.9	-1.9	50 30	30	30	30	30	30
13C2 PFTeDA	-3.4 8.5	2.7	-8.8	-0.5	3.1	-1.6	50 30	30	30	30	30	30

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 41778

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 19:09 Calibration End Date: 09/08/2020 20:08 Calibration ID: 10692

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-41778/1	20SEP08MCAL-01.d
Level 2	IC 410-41778/2	20SEP08MCAL-02.d
Level 3	IC 410-41778/3	20SEP08MCAL-03.d
Level 4	IC 410-41778/4	20SEP08MCAL-04.d
Level 5	ICISAV 410-41778/5	20SEP08MCAL-05.d
Level 6	IC 410-41778/6	20SEP08MCAL-06.d
Level 7	IC 410-41778/7	20SEP08MCAL-07.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Perfluorobutanoic acid	0.8507 0.8843	0.9285 0.8114	0.8272	0.8278	0.8702	LID1F		0.8394			5.4			0.9980		0.9900	
Perfluoropentanoic acid	1.0334 0.9930	1.0374 0.9313	0.9397	0.9484	1.0232	LID1F		0.9598			5.7			0.9990		0.9900	
Perfluorobutanesulfonic acid	0.8185 1.0105	0.8429 1.0493	0.8751	1.0105	1.0435	LID1F		1.0335			13.0			0.9990		0.9900	
4:2 Fluorotelomer sulfonic acid	2.4912 2.7331	2.5500 2.7117	2.6473	2.7658	2.9876	LID1F		2.7491			6.2			0.9990		0.9900	
Perfluorohexanoic acid	0.6617 0.8133	0.6514 0.8190	0.6747	0.8065	0.8634	LID1F		0.8196			13.8			0.9990		0.9900	
Perfluoropentanesulfonic acid	0.7754 0.8440	0.8578 0.7849	0.8119	0.8311	0.9359	LID1F		0.8205			6.8			0.9960		0.9900	
HFPODA	1.3237 1.7403	1.4126 ++++	1.4075	1.7043	1.7626	LID1F		1.7310			15.8			0.9990		0.9900	
Perfluoroheptanoic acid	0.9192 1.1017	1.0063 1.1071	0.9933	1.1897	1.2001	LID1F		1.1178			10.3			0.9990		0.9900	
Perfluorohexanesulfonic acid	0.8026 1.0457	0.8699 1.0782	0.8728	1.0246	1.0650	LID1F		1.0622			14.5			0.9990		0.9900	
DONA	1.3767 1.8328	1.5298 1.9516	1.6154	1.9093	1.8976	LID1F		1.9054			15.3			0.9990		0.9900	
6:2 Fluorotelomer sulfonic acid	4.3650 5.0870	4.8777 4.7002	4.8711	4.8221	5.6276	LID1F		4.9173			7.9			0.9960		0.9900	
Perfluoroheptanesulfonic acid	0.9010 0.9599	0.9480 0.9374	0.8797	0.9323	1.0233	LID1F		0.9523			5.0			0.9990		0.9900	
Perfluorooctanoic acid	0.9580 0.8306	0.8047 0.9207	0.7865	0.8696	0.9119	LID1F		0.8908			7.7			0.9980		0.9900	
Perfluorooctanesulfonic acid	0.9691 1.0825	0.9861 1.1274	0.9733	1.0598	1.0547	LID1F		1.1017			8.5			0.9990		0.9900	

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 41778

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 19:09 Calibration End Date: 09/08/2020 20:08 Calibration ID: 10692

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Perfluorononanoic acid	0.7625 0.9139	0.8200 0.9541	0.8082	0.9245	0.9314	LID1F		0.9369			10.8			0.9990		0.9900	
9Cl-PF3ONS	1.7275 1.9903	1.7509 1.9746	1.8794	2.0508	2.0509	LID1F		1.9888			7.8			1.0000		0.9900	
Perfluorononanesulfonic acid	1.0192 1.0724	1.2410 0.9745	1.1280	1.0701	1.1166	LID1F		1.0240			10.8			0.9970		0.9900	
Perfluorodecanoic acid	0.6215 0.8094	0.6528 0.7819	0.6901	0.7562	0.7830	LID1F		0.7869			12.3			0.9990		0.9900	
8:2 Fluorotelomer sulfonic acid	6.8329 6.9021	7.2291 5.7537	6.3973	5.9898	6.8637	LID1F		6.2172			10.6			0.9920		0.9900	
Perfluorooctanesulfonamide	0.8934 1.0103	0.9714 0.9622	0.9136	0.9235	0.9907	LID1F		0.9763			5.2			0.9990		0.9900	
NMeFOSAA	0.8160 0.9136	0.7732 0.9630	0.7709	0.8893	0.9550	LID1F		0.9424			12.1			0.9990		0.9900	
Perfluorodecanesulfonic acid	1.0027 1.0367	1.0709 0.9226	0.9842	0.9836	1.0099	LID1F		0.9677			6.1			0.9970		0.9900	
Perfluoroundecanoic acid	0.6425 0.7594	0.6402 0.7686	0.6964	0.7321	0.7660	LID1F		0.7629			10.0			1.0000		0.9900	
NEtFOSAA	0.8051 0.9596	0.7318 1.0463	0.7833	0.8849	0.9376	LID1F		0.9991			17.2			0.9960		0.9900	
11Cl-PF3OUdS	1.2635 1.5225	1.2898 1.4387	1.3032	1.4851	1.4901	LID1F		1.4675			9.0			0.9990		0.9900	
Perfluorododecanoic acid	0.7804 0.8524	0.8059 0.8557	0.7970	0.9314	0.9088	LID1F		0.8631			6.9			0.9990		0.9900	
10:2 FTS	8.0280 8.9151	9.1986 7.5713	7.2560	7.5374	8.4066	LID1F		8.0356			9.3			0.9940		0.9900	
NMeFOSE	0.9825 1.1086	1.0066 1.0312	0.9618	0.9916	1.0931	LID1F		1.0568			6.2			0.9990		0.9900	
NMeFOSA	0.8076 1.0389	1.0097 0.9367	0.9096	0.9323	1.0579	LID1F		0.9780			9.2			0.9970		0.9900	
Perfluorododecanesulfonic acid (PFDoS)	0.7260 0.7264	0.7608 0.6624	0.7415	0.6977	0.7171	LID1F		0.6889			6.6			0.9980		0.9900	
NEtFOSE	1.0333 1.1760	1.1394 1.1180	1.0436	1.0456	1.1756	LID1F		1.1364			6.3			0.9990		0.9900	
Perfluorotridecanoic acid	0.7605 0.8196	0.7585 0.8202	0.7693	0.8979	0.8983	LID1F		0.8313			7.5			0.9990		0.9900	
NEtFOSA	0.9564 1.0649	1.0117 1.0106	0.9695	0.9739	1.0509	LID1F		1.0279			4.7			0.9990		0.9900	
Perfluorotetradecanoic acid	0.8860 0.9374	0.8619 0.9065	0.8320	0.9467	0.9940	LID1F		0.9255			6.2			0.9990		0.9900	

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 41778

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 19:09 Calibration End Date: 09/08/2020 20:08 Calibration ID: 10692

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Perfluorohexadecanoic acid	0.5212 0.4246	0.4777 ++++	0.4399	0.3922	0.4490	LID1F		0.4283			11.9			0.9980		0.9900	
Perfluorooctadecanoic acid	0.2166 0.2309	0.2200 0.2087	0.2139	0.2102	0.2451	LID1F		0.2190			6.0			0.9960		0.9900	
13C4 PFBA	1.1529 1.1545	1.2279 1.1912	1.0530	1.1712	1.1335	Ave		1.1549			4.7		20.0				
13C5 PFPeA	1.0524 1.0689	1.1013 1.0616	0.9465	1.0624	1.0181	Ave		1.0445			4.8		20.0				
13C3 PFBS	1.2414 1.3007	1.3099 1.3192	1.1447	1.2618	1.2418	Ave		1.2599			4.8		20.0				
M2-4:2 FTS	0.0754 0.0802	0.0882 0.0869	0.0710	0.0778	0.0731	Ave		0.0789			8.4		20.0				
13C5 PFHxA	0.7814 0.7947	0.8597 0.8480	0.7243	0.7771	0.7318	Ave		0.7881			6.6		20.0				
13C3 HFPO-DA	0.1001 0.1095	0.1133 0.1065	0.0910	0.1019	0.0965	Ave		0.1027			7.5		20.0				
13C3 PFHxS	0.6597 0.6491	0.7340 0.6807	0.6212	0.6666	0.6210	Ave		0.6618			5.9		20.0				
13C4 PFHpA	0.7396 0.7558	0.7947 0.7735	0.6846	0.7211	0.6971	Ave		0.7381			5.4		20.0				
M2-6:2 FTS	0.0376 0.0359	0.0418 0.0366	0.0348	0.0399	0.0346	Ave		0.0373			7.2		20.0				
13C8 PFOA	0.9855 1.0182	1.0924 1.0047	0.9017	1.0299	0.9357	Ave		0.9954			6.3		20.0				
13C8 PFOS	1.0437 1.0463	1.1133 1.0403	0.9318	1.0558	0.9798	Ave		1.0301			5.7		20.0				
13C9 PFNA	1.1496 1.0713	1.2354 1.0900	1.0458	1.1613	1.0377	Ave		1.1130			6.5		20.0				
13C6 PFDA	1.2602 1.1673	1.3547 1.1967	1.1271	1.2609	1.1959	Ave		1.2232			6.1		20.0				
M2-8:2 FTS	0.0318 0.0271	0.0308 0.0279	0.0269	0.0321	0.0274	Ave		0.0291			8.0		20.0				
13C8 FOSA	1.6497 1.4998	1.6774 1.5025	1.3463	1.5527	1.4582	Ave		1.5267			7.4		20.0				
d3-NMeFOSAA	0.3937 0.4198	0.4269 0.4298	0.3545	0.4097	0.3775	Ave		0.4017			7.0		20.0				
13C7 PFUnA	1.4935 1.4399	1.5667 1.4222	1.2808	1.5434	1.4138	Ave		1.4515			6.6		20.0				
d5-NETFOSAA	0.2957 0.3020	0.3176 0.2784	0.2835	0.3123	0.2939	Ave		0.2976			4.8		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 41778

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 19:09 Calibration End Date: 09/08/2020 20:08 Calibration ID: 10692

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
13C2-PFDoDA	1.4883 1.5022	1.5605 1.4602	1.2849	1.4613	1.3908	Ave		1.4497			6.1		20.0				
d7-N-MeFOSE-M	0.2186 0.2269	0.2456 0.2423	0.1922	0.2229	0.2092	Ave		0.2225			8.3		20.0				
d3-NMePFOSA	0.1388 0.1462	0.1476 0.1598	0.1167	0.1366	0.1268	Ave		0.1389			10.2		20.0				
d9-N-EtFOSE-M	0.2329 0.2282	0.2399 0.2300	0.2020	0.2325	0.2155	Ave		0.2259			5.7		20.0				
d5-NEtPFOSA	0.1358 0.1358	0.1447 0.1431	0.1133	0.1368	0.1236	Ave		0.1333			8.4		20.0				
13C2 PFTeDA	1.0986 1.1820	1.2564 1.3079	0.9929	1.2332	1.0688	Ave		1.1628			9.7		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 41778

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 19:09 Calibration End Date: 09/08/2020 20:08 Calibration ID: 10692

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-41778/1	20SEP08MCAL-01.d
Level 2	IC 410-41778/2	20SEP08MCAL-02.d
Level 3	IC 410-41778/3	20SEP08MCAL-03.d
Level 4	IC 410-41778/4	20SEP08MCAL-04.d
Level 5	ICISAV 410-41778/5	20SEP08MCAL-05.d
Level 6	IC 410-41778/6	20SEP08MCAL-06.d
Level 7	IC 410-41778/7	20SEP08MCAL-07.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Perfluorobutanoic acid		LID1F	93087 17599994	246207 30957229	812178	2665513	6678362	0.200 50.0	0.500 100	2.00	8.00	20.0
Perfluoropentanoic acid		LID1F	103234 18299280	246731 31661664	829335	2770257	7053767	0.200 50.0	0.500 100	2.00	8.00	20.0
Perfluorobutanesulfonic acid		LID1F	85350 20053545	211026 39233393	826639	3102688	7764969	0.177 44.3	0.443 88.5	1.77	7.08	17.7
4:2 Fluorotelomer sulfonic acid		LID1F	26621 5551178	68834 10538028	262474	887374	2276292	0.187 46.7	0.467 93.4	1.87	7.47	18.7
Perfluorohexanoic acid		LID1F	78430 17525080	183544 33258048	731133	2766124	7053094	0.200 50.0	0.500 100	2.00	8.00	20.0
Perfluoropentanesulfonic acid		LID1F	85703 17751571	227622 31105967	812928	2704529	7381023	0.188 46.9	0.469 93.8	1.88	7.50	18.8
HFPODA		LID1F	20092 5168738	52439 +++++	191714	766251	1898141	0.200 50.0	0.500 +++++	2.00	8.00	20.0
Perfluoroheptanoic acid		LID1F	103122 22577724	262142 41004232	1017374	3786301	9340215	0.200 50.0	0.500 100	2.00	8.00	20.0
Perfluorohexanesulfonic acid		LID1F	73237 16785703	190864 32051594	739833	2749187	6733939	0.182 45.6	0.456 91.2	1.82	7.30	18.2
DONA		LID1F	145945 35493520	376595 68308500	1563554	5742479	13955798	0.189 47.3	0.473 94.5	1.89	7.56	18.9
6:2 Fluorotelomer sulfonic acid		LID1F	23575 4689698	63385 7815497	240232	804142	2058661	0.190 47.4	0.474 94.8	1.90	7.58	19.0
Perfluoroheptanesulfonic acid		LID1F	85823 16084163	217120 29090812	778311	2611329	6753858	0.190 47.6	0.476 95.2	1.90	7.62	19.0
Perfluorooctanoic acid		LID1F	143186 22932051	288143 44296088	1061100	3952897	9525381	0.200 50.0	0.500 100	2.00	8.00	20.0
Perfluorooctanesulfonic acid		LID1F	85468 18731555	216219 36969716	790259	2902551	7120439	0.185 46.3	0.463 92.6	1.85	7.40	18.5
Perfluorononanoic acid		LID1F	80032 17494161	215597 35420051	795799	3009009	7194915	0.200 50.0	0.500 100	2.00	8.00	20.0

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 41778

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 19:09 Calibration End Date: 09/08/2020 20:08 Calibration ID: 10692

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
9Cl-PF3ONS		LID1F	153088 34607664	385798 65064039	1533363	5643772	13912490	0.186 46.5	0.465 93.0	1.86	7.44	18.6
Perfluorononanesulfonic acid		LID1F	93239 19249041	282265 33144339	950001	3039945	7818840	0.192 48.0	0.480 96.0	1.92	7.68	19.2
Perfluorodecanoic acid		LID1F	87060 19381775	223856 35231423	901321	3189428	7981030	0.200 50.0	0.500 100	2.00	8.00	20.0
8:2 Fluorotelomer sulfonic acid		LID1F	23169 3670866	54007 5791149	191193	615162	1535470	0.192 47.9	0.479 95.8	1.92	7.66	19.2
Perfluorooctanesulfonamide		LID1F	163824 31086155	412469 54432709	1425368	4796100	12313376	0.200 50.0	0.500 100	2.00	8.00	20.0
NMeFOSAA		LID1F	35709 7868933	83555 15586233	316676	1218697	3073162	0.200 50.0	0.500 100	2.00	8.00	20.0
Perfluorodecanesulfonic acid		LID1F	92111 18685051	244588 31512715	832371	2805947	7101402	0.193 48.2	0.482 96.4	1.93	7.71	19.3
Perfluoroundecanoic acid		LID1F	106661 22432928	253894 41162597	1033569	3779322	9230538	0.200 50.0	0.500 100	2.00	8.00	20.0
NEtFOSAA		LID1F	26467 5944404	58833 10967729	257358	924371	2348773	0.200 50.0	0.500 100	2.00	8.00	20.0
11Cl-PF3OUdS		LID1F	111971 26473809	284192 47406128	1063310	4087078	10108319	0.186 46.5	0.465 93.0	1.86	7.44	18.6
Perfluorododecanoic acid		LID1F	129103 26270224	318339 47047037	1186704	4552852	10772395	0.200 50.0	0.500 100	2.00	8.00	20.0
10:2 FTS		LID1F	27392 4771170	69151 7668273	218215	778943	1892426	0.193 48.2	0.482 96.4	1.93	7.71	19.3
NMeFOSE		LID1F	23869 5160130	62587 9406655	214231	739268	1949549	0.200 50.0	0.500 100	2.00	8.00	20.0
NMeFOSA		LID1F	12457 3116588	37725 5636116	123047	426039	1143415	0.200 50.0	0.500 100	2.00	8.00	20.0
Perfluorododecanesulfonic acid (PFDoS)		LID1F	66965 13146909	174491 22717677	629669	1998645	5063659	0.194 48.4	0.484 96.8	1.94	7.74	19.4
NEtFOSE		LID1F	26747 5505309	69193 9680655	244312	813090	2159451	0.200 50.0	0.500 100	2.00	8.00	20.0
Perfluorotridecanoic acid		LID1F	125811 25257727	299601 45099257	1145569	4388850	10648109	0.200 50.0	0.500 100	2.00	8.00	20.0
NEtFOSA		LID1F	14432 2967364	37058 5446666	127347	445514	1106610	0.200 50.0	0.500 100	2.00	8.00	20.0
Perfluorotetradecanoic acid		LID1F	108185 22730684	274111 44642592	957229	3905011	9054739	0.200 50.0	0.500 100	2.00	8.00	20.0
Perfluorohexadecanoic acid		LID1F	63640 10295170	151911 ++++	506147	1617807	4089980	0.200 50.0	0.500 ++++	2.00	8.00	20.0
Perfluorooctadecanoic acid		LID1F	26446 5600089	69962 10278325	246058	867105	2232425	0.200 50.0	0.500 100	2.00	8.00	20.0

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 41778

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 19:09 Calibration End Date: 09/08/2020 20:08 Calibration ID: 10692

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
13C4 PFBA	13C3 PFBA	Ave	5471238 3980726	5303407 3815094	4909460	4025227	3837449	10.0 10.0	10.0 10.0	10.0	10.0	10.0
13C5 PFPeA	13C3 PFBA	Ave	4994630 3685503	4756629 3399886	4412875	3651374	3446806	10.0 10.0	10.0 10.0	10.0	10.0	10.0
13C3 PFBS	13C3 PFBA	Ave	5514508 4197601	5295767 3954484	4995390	4059080	3934951	9.36 9.36	9.36 9.36	9.36	9.36	9.36
M2-4:2 FTS	13PF OA	Ave	534306 406221	539879 388620	495730	401053	380955	9.34 9.34	9.34 9.34	9.34	9.34	9.34
13C5 PFHxA	13PF OA	Ave	5926247 4309687	5635609 4060595	5417975	4287361	4084500	10.0 10.0	10.0 10.0	10.0	10.0	10.0
13C3 HFPO-DA	13PF OA	Ave	758914 593999	742458 510015	681060	561987	538456	10.0 10.0	10.0 10.0	10.0	10.0	10.0
13C3 PFHxS	13PF OA	Ave	4732716 3329980	4551886 3083659	4396085	3479011	3279244	9.46 9.46	9.46 9.46	9.46	9.46	9.46
13C4 PFHpA	13PF OA	Ave	5609203 4098618	5209993 3703783	5121126	3978325	3891283	10.0 10.0	10.0 10.0	10.0	10.0	10.0
M2-6:2 FTS	13PF OA	Ave	270615 184769	260446 166630	247108	208892	183294	9.50 9.50	9.50 9.50	9.50	9.50	9.50
13C8 PFOA	13PF OA	Ave	7473540 5521520	7161223 4810988	6745622	5681901	5222699	10.0 10.0	10.0 10.0	10.0	10.0	10.0
13C8 PFOS	PFOS	Ave	4557229 3576745	4532415 3388933	4195730	3538070	3488477	9.57 9.57	9.57 9.57	9.57	9.57	9.57
13C9 PFNA	PFOS	Ave	5248176 3828670	5258156 3712356	4923117	4068532	3862479	10.0 10.0	10.0 10.0	10.0	10.0	10.0
13C6 PFDA	PFDA	Ave	7003592 4789437	6858188 4505910	6530496	5271874	5096613	10.0 10.0	10.0 10.0	10.0	10.0	10.0
M2-8:2 FTS	PFDA	Ave	169541 106370	149416 100651	149433	128376	111855	9.58 9.58	9.58 9.58	9.58	9.58	9.58
13C8 FOSA	PFDA	Ave	9168285 6153879	8492021 5657323	7800915	6491939	6214304	10.0 10.0	10.0 10.0	10.0	10.0	10.0
d3-NMeFOSAA	PFDA	Ave	2188010 1722623	2161151 1618476	2053992	1713050	1608915	10.0 10.0	10.0 10.0	10.0	10.0	10.0
13C7 PFUnA	PFDA	Ave	8300261 5908043	7931254 5355187	7421247	6452913	6024984	10.0 10.0	10.0 10.0	10.0	10.0	10.0
d5-NetFOSAA	PFDA	Ave	1643643 1238935	1607946 1048192	1642710	1305830	1252607	10.0 10.0	10.0 10.0	10.0	10.0	10.0
13C2-PFDoDA	PFDA	Ave	8271221 6163705	7899926 5498246	7445111	6109906	5926942	10.0 10.0	10.0 10.0	10.0	10.0	10.0
d7-N-MeFOSE-M	PFDA	Ave	1214754 930906	1243552 912206	1113716	931880	891725	10.0 10.0	10.0 10.0	10.0	10.0	10.0
d3-NMePFOSA	PFDA	Ave	771206 599972	747283 601693	676381	571245	540423	10.0 10.0	10.0 10.0	10.0	10.0	10.0

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 41778

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 19:09 Calibration End Date: 09/08/2020 20:08 Calibration ID: 10692

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
d9-N-EtFOSE-M	PFDA	Ave	1294300 936297	1214547 865884	1170477	972002	918461	10.0 10.0	10.0 10.0	10.0	10.0	10.0
d5-NEtPFOSA	PFDA	Ave	754531 557300	732589 538963	656769	571810	526525	10.0 10.0	10.0 10.0	10.0	10.0	10.0
13C2 PFTeDA	PFDA	Ave	6105575 4849907	6360495 4924774	5752881	5156325	4554869	10.0 10.0	10.0 10.0	10.0	10.0	10.0

Curve Type Legend:

Ave = Average ISTD LID1F = Linear 1/Conc IsoDil FZ

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 41778

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 19:09 Calibration End Date: 09/08/2020 20:08 Calibration ID: 10692

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-41778/1	20SEP08MCAL-01.d
Level 2	IC 410-41778/2	20SEP08MCAL-02.d
Level 3	IC 410-41778/3	20SEP08MCAL-03.d
Level 4	IC 410-41778/4	20SEP08MCAL-04.d
Level 5	ICISAV 410-41778/5	20SEP08MCAL-05.d
Level 6	IC 410-41778/6	20SEP08MCAL-06.d
Level 7	IC 410-41778/7	20SEP08MCAL-07.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Perfluorobutanoic acid	1.4 -3.3	10.6	-1.5	-1.4	3.7	5.4	50 30	30	30	30	30	30
Perfluoropentanoic acid	7.7 -3.0	8.1	-2.1	-1.2	6.6	3.5	50 30	30	30	30	30	30
Perfluorobutanesulfonic acid	-20.8 1.5	-18.4	-15.3	-2.2	1.0	-2.2	50 30	30	30	30	30	30
4:2 Fluorotelomer sulfonic acid	-9.4 -1.4	-7.2	-3.7	0.6	8.7	-0.6	50 30	30	30	30	30	30
Perfluorohexanoic acid	-19.3 -0.1	-20.5	-17.7	-1.6	5.3	-0.8	50 30	30	30	30	30	30
Perfluoropentanesulfonic acid	-5.5 -4.3	4.5	-1.0	1.3	14.1	2.9	50 30	30	30	30	30	30
HPFODA	-23.5 ++++	-18.4	-18.7	-1.5	1.8	0.5	50	30	30	30	30	30
Perfluoroheptanoic acid	-17.8 -1.0	-10.0	-11.1	6.4	7.4	-1.4	50 30	30	30	30	30	30
Perfluorohexanesulfonic acid	-24.4 1.5	-18.1	-17.8	-3.5	0.3	-1.6	50 30	30	30	30	30	30
DONA	-27.7 2.4	-19.7	-15.2	0.2	-0.4	-3.8	50 30	30	30	30	30	30
6:2 Fluorotelomer sulfonic acid	-11.2 -4.4	-0.8	-0.9	-1.9	14.4	3.5	50 30	30	30	30	30	30
Perfluoroheptanesulfonic acid	-5.4 -1.6	-0.5	-7.6	-2.1	7.5	0.8	50 30	30	30	30	30	30
Perfluorooctanoic acid	7.5 3.4	-9.7	-11.7	-2.4	2.4	-6.8	50 30	30	30	30	30	30
Perfluorooctanesulfonic acid	-12.0 2.3	-10.5	-11.7	-3.8	-4.3	-1.7	50 30	30	30	30	30	30
Perfluorononanoic acid	-18.6 1.8	-12.5	-13.7	-1.3	-0.6	-2.5	50 30	30	30	30	30	30

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 41778

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 19:09 Calibration End Date: 09/08/2020 20:08 Calibration ID: 10692

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
9C1-PF3ONS	-13.1 -0.7	-12.0	-5.5	3.1	3.1	0.1	50 30	30	30	30	30	30
Perfluorononanesulfonic acid	-0.5 -4.8	21.2	10.2	4.5	9.0	4.7	50 30	30	30	30	30	30
Perfluorodecanoic acid	-21.0 -0.6	-17.0	-12.3	-3.9	-0.5	2.9	50 30	30	30	30	30	30
8:2 Fluorotelomer sulfonic acid	9.9 -7.5	16.3	2.9	-3.7	10.4	11.0	50 30	30	30	30	30	30
Perfluorooctanesulfonamide	-8.5 -1.5	-0.5	-6.4	-5.4	1.5	3.5	50 30	30	30	30	30	30
NMeFOSAA	-13.4 2.2	-17.9	-18.2	-5.6	1.3	-3.1	50 30	30	30	30	30	30
Perfluorodecanesulfonic acid	3.6 -4.7	10.7	1.7	1.6	4.4	7.1	50 30	30	30	30	30	30
Perfluoroundecanoic acid	-15.8 0.8	-16.1	-8.7	-4.0	0.4	-0.5	50 30	30	30	30	30	30
NEtFOSAA	-19.4 4.7	-26.8	-21.6	-11.4	-6.2	-4.0	50 30	30	30	30	30	30
11C1-PF3OUds	-13.9 -2.0	-12.1	-11.2	1.2	1.5	3.7	50 30	30	30	30	30	30
Perfluorododecanoic acid	-9.6 -0.9	-6.6	-7.7	7.9	5.3	-1.2	50 30	30	30	30	30	30
10:2 FTS	-0.1 -5.8	14.5	-9.7	-6.2	4.6	10.9	50 30	30	30	30	30	30
NMeFOSE	-7.0 -2.4	-4.8	-9.0	-6.2	3.4	4.9	50 30	30	30	30	30	30
NMeFOSA	-17.4 -4.2	3.2	-7.0	-4.7	8.2	6.2	50 30	30	30	30	30	30
Perfluorododecanesulfonic acid (PFDoS)	5.4 -3.9	10.4	7.6	1.3	4.1	5.4	50 30	30	30	30	30	30
NEtFOSE	-9.1 -1.6	0.3	-8.2	-8.0	3.5	3.5	50 30	30	30	30	30	30
Perfluorotridecanoic acid	-8.5 -1.3	-8.8	-7.5	8.0	8.1	-1.4	50 30	30	30	30	30	30
NEtFOSA	-7.0 -1.7	-1.6	-5.7	-5.3	2.2	3.6	50 30	30	30	30	30	30
Perfluorotetradecanoic acid	-4.3 -2.1	-6.9	-10.1	2.3	7.4	1.3	50 30	30	30	30	30	30
Perfluorohexadecanoic acid	21.7 ++++	11.5	2.7	-8.4	4.8	-0.9	50	30	30	30	30	30
Perfluorooctadecanoic acid	-1.1 -4.7	0.4	-2.4	-4.0	11.9	5.4	50 30	30	30	30	30	30

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 41778

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 19:09 Calibration End Date: 09/08/2020 20:08 Calibration ID: 10692

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
13C4 PFBA	-0.2 3.1	6.3	-8.8	1.4	-1.9	0.0	50 30	30	30	30	30	30
13C5 PFPeA	0.8 1.6	5.4	-9.4	1.7	-2.5	2.3	50 30	30	30	30	30	30
13C3 PFBS	-1.5 4.7	4.0	-9.1	0.2	-1.4	3.2	50 30	30	30	30	30	30
M2-4:2 FTS	-4.4 10.1	11.7	-10.1	-1.4	-7.4	1.6	50 30	30	30	30	30	30
13C5 PFHxA	-0.9 7.6	9.1	-8.1	-1.4	-7.2	0.8	50 30	30	30	30	30	30
13C3 HFPO-DA	-2.5 3.7	10.3	-11.3	-0.8	-6.0	6.7	50 30	30	30	30	30	30
13C3 PFHxS	-0.3 2.9	10.9	-6.1	0.7	-6.2	-1.9	50 30	30	30	30	30	30
13C4 PFHpA	0.2 4.8	7.7	-7.2	-2.3	-5.5	2.4	50 30	30	30	30	30	30
M2-6:2 FTS	0.7 -1.8	12.1	-6.8	6.9	-7.3	-3.8	50 30	30	30	30	30	30
13C8 PFOA	-1.0 0.9	9.7	-9.4	3.5	-6.0	2.3	50 30	30	30	30	30	30
13C8 PFOS	1.3 1.0	8.1	-9.5	2.5	-4.9	1.6	50 30	30	30	30	30	30
13C9 PFNA	3.3 -2.1	11.0	-6.0	4.3	-6.8	-3.7	50 30	30	30	30	30	30
13C6 PFDA	3.0 -2.2	10.7	-7.9	3.1	-2.2	-4.6	50 30	30	30	30	30	30
M2-8:2 FTS	9.3 -4.2	5.7	-7.6	10.0	-6.0	-7.1	50 30	30	30	30	30	30
13C8 FOSA	8.1 -1.6	9.9	-11.8	1.7	-4.5	-1.8	50 30	30	30	30	30	30
d3-NMeFOSAA	-2.0 7.0	6.3	-11.8	2.0	-6.0	4.5	50 30	30	30	30	30	30
13C7 PFUnA	2.9 -2.0	7.9	-11.8	6.3	-2.6	-0.8	50 30	30	30	30	30	30
d5-NEtFOSAA	-0.6 -6.5	6.7	-4.7	4.9	-1.2	1.5	50 30	30	30	30	30	30
13C2-PFDoDA	2.7 0.7	7.6	-11.4	0.8	-4.1	3.6	50 30	30	30	30	30	30
d7-N-MeFOSE-M	-1.8 8.9	10.4	-13.6	0.2	-6.0	2.0	50 30	30	30	30	30	30
d3-NMePFOSA	-0.1 15.0	6.2	-16.0	-1.7	-8.7	5.2	50 30	30	30	30	30	30

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1 Analy Batch No.: 41778

SDG No.: _____

Instrument ID: 30731 GC Column: Gemini C18 5 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/08/2020 19:09 Calibration End Date: 09/08/2020 20:08 Calibration ID: 10692

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #						LVL 7					
d9-N-EtFOSE-M	3.1	6.2	-10.6	2.9	-4.6	1.0	50	30	30	30	30	30
	1.8						30					
d5-NEtPFOSA	1.8	8.6	-15.0	2.6	-7.3	1.9	50	30	30	30	30	30
	7.4						30					
13C2 PFTeDA	-5.5	8.0	-14.6	6.1	-8.1	1.7	50	30	30	30	30	30
	12.5						30					

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Lab Sample ID: ICV 410-40712/9 Calibration Date: 09/03/2020 14:56
 Instrument ID: 30731 Calib Start Date: 09/03/2020 13:37
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 09/03/2020 14:36
 Lab File ID: 20SEP03MCAL-13.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid	LID1F		0.8897		2.11	2.00	5.7	30.0
Perfluoropentanoic acid	LID1F		1.005		2.10	2.00	4.8	30.0
Perfluorobutanesulfonic acid	LID1F		1.063		1.78	1.77	0.7	30.0
Perfluorohexanoic acid	LID1F		0.8090		1.93	2.00	-3.6	30.0
HFPODA	LID1F		1.213		1.64	2.00	-17.9	30.0
Perfluorohexanesulfonic acid	LID1F		1.090		1.92	1.89	1.6	30.0
Perfluoroheptanoic acid	LID1F		1.210		2.13	2.00	6.4	30.0
DONA	LID1F		1.959		1.93	1.88	2.2	30.0
Perfluoroheptanesulfonic acid	LID1F		1.108		2.23	1.90	17.2	30.0
Perfluorooctanoic acid	LID1F		0.9820		2.27	2.00	13.3	30.0
Perfluorooctanesulfonic acid	LID1F		1.005		1.76	1.91	-8.1	30.0
Perfluorononanoic acid	LID1F		0.9617		2.07	2.00	3.3	30.0
9Cl-PF3ONS	LID1F		1.872		1.68	1.86	-9.9	30.0
Perfluorodecanoic acid	LID1F		0.7735		1.94	2.00	-3.0	30.0
NMeFOSAA	LID1F		1.002		2.21	2.00	10.3	30.0
Perfluorodecanesulfonic acid	LID1F		1.038		2.00	1.93	4.0	30.0
Perfluoroundecanoic acid	LID1F		0.8398		2.13	2.00	6.4	30.0
NEtFOSAA	LID1F		1.051		2.12	2.00	6.0	30.0
11Cl-PF3OUDs	LID1F		1.526		1.85	1.88	-1.6	30.0
Perfluorododecanoic acid	LID1F		0.9407		2.16	2.00	8.2	30.0
Perfluorotridecanoic acid	LID1F		0.9300		2.27	2.00	13.6	30.0
Perfluorotetradecanoic acid	LID1F		1.024		2.21	2.00	10.7	30.0
13C4 PFBA	Ave	1.157	1.025		8.86	10.0	-11.4	30.0
13C5 PFPeA	Ave	1.030	0.9467		9.19	10.0	-8.1	30.0
13C3 PFBS	Ave	1.242	1.108		8.35	9.36	-10.8	30.0
M2-4:2 FTS	Ave	0.0693	0.0639		8.61	9.34	-7.8	30.0
13C5 PFHxA	Ave	0.7963	0.7213		9.06	10.0	-9.4	30.0
13C3 HFPO-DA	Ave	0.1451	0.1292		8.91	10.0	-10.9	30.0
13C3 PFHxS	Ave	0.6547	0.5576		8.06	9.46	-14.8	30.0
13C4 PFHpA	Ave	0.7117	0.6046		8.49	10.0	-15.1	30.0
M2-6:2 FTS	Ave	0.0333	0.0332		9.47	9.50	-0.3	30.0
13C8 PFOA	Ave	1.000	0.8761		8.76	10.0	-12.4	30.0
13C8 PFOS	Ave	1.008	0.8635		8.20	9.57	-14.3	30.0
13C9 PFNA	Ave	1.116	0.9524		8.53	10.0	-14.7	30.0
13C6 PFDA	Ave	1.209	1.143		9.46	10.0	-5.4	30.0
M2-8:2 FTS	Ave	0.0263	0.0275		10.0	9.58	4.5	30.0
13C8 FOSA	Ave	1.470	1.333		9.07	10.0	-9.3	30.0
d3-NMeFOSAA	Ave	0.3941	0.3637		9.23	10.0	-7.7	30.0
13C7 PFUnA	Ave	1.410	1.282		9.10	10.0	-9.0	30.0
d5-NEtFOSAA	Ave	0.2730	0.2680		9.82	10.0	-1.8	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Lab Sample ID: ICV 410-40712/9 Calibration Date: 09/03/2020 14:56
 Instrument ID: 30731 Calib Start Date: 09/03/2020 13:37
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 09/03/2020 14:36
 Lab File ID: 20SEP03MCAL-13.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C2-PFDoDA	Ave	1.447	1.295		8.94	10.0	-10.6	30.0
d7-N-MeFOSE-M	Ave	0.2389	0.2222		9.30	10.0	-7.0	30.0
d3-NMePFOSA	Ave	0.1462	0.1322		9.05	10.0	-9.5	30.0
d9-N-EtFOSE-M	Ave	0.2368	0.2244		9.48	10.0	-5.2	30.0
d5-NEtPFOSA	Ave	0.1378	0.1263		9.17	10.0	-8.3	30.0
13C2 PFTeDA	Ave	1.259	1.062		8.44	10.0	-15.6	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Lab Sample ID: CCV 410-41076/22 Calibration Date: 09/04/2020 13:18
 Instrument ID: 30731 Calib Start Date: 09/03/2020 13:37
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 09/03/2020 14:36
 Lab File ID: 20SEP04-19.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid	LID1F		0.8822		21.0	20.0	4.9	30.0
Perfluoropentanoic acid	LID1F		1.047		21.8	20.0	9.2	30.0
Perfluorobutanesulfonic acid	LID1F		1.030		17.3	17.7	-2.5	30.0
4:2 Fluorotelomer sulfonic acid	LID1F		2.738		18.3	18.7	-1.8	30.0
Perfluoroheptanoic acid	LID1F		0.7902		18.8	20.0	-5.8	30.0
Perfluoropentanesulfonic acid	LID1F		0.8671		18.9	18.8	0.7	30.0
HFPODA	LID1F		1.588		21.5	20.0	7.4	30.0
Perfluoroheptanoic acid	LID1F		1.203		21.2	20.0	5.8	30.0
Perfluorohexanesulfonic acid	LID1F		1.071		18.2	18.2	-0.1	30.0
DONA	LID1F		1.993		19.7	18.9	4.0	30.0
6:2 Fluorotelomer sulfonic acid	LID1F		5.189		19.5	19.0	2.8	30.0
Perfluoroheptanesulfonic acid	LID1F		1.014		20.4	19.0	7.3	30.0
Perfluorooctanoic acid	LID1F		0.8607		19.9	20.0	-0.6	30.0
Perfluorooctanesulfonic acid	LID1F		1.072		18.1	18.5	-2.0	30.0
Perfluorononanoic acid	LID1F		0.9313		20.0	20.0	0.0	30.0
9Cl-PF3ONS	LID1F		2.171		19.4	18.6	4.6	30.0
Perfluorononanesulfonic acid	LID1F		1.155		20.6	19.2	7.5	30.0
8:2 Fluorotelomer sulfonic acid	LID1F		6.783		19.8	19.2	3.2	30.0
Perfluorodecanoic acid	LID1F		0.8144		20.4	20.0	2.1	30.0
Perfluorooctanesulfonamide	LID1F		1.019		20.9	20.0	4.5	30.0
NMeFOSAA	LID1F		0.9102		20.0	20.0	0.1	30.0
Perfluorodecanesulfonic acid	LID1F		1.057		20.4	19.3	5.8	30.0
Perfluoroundecanoic acid	LID1F		0.7654		19.4	20.0	-3.1	30.0
NETFOSAA	LID1F		0.8983		18.1	20.0	-9.4	30.0
11Cl-PF3OUds	LID1F		1.554		18.6	18.6	0.2	30.0
Perfluorododecanoic acid	LID1F		0.9257		21.3	20.0	6.5	30.0
10:2 FTS	LID1F		7.931		18.9	19.3	-1.8	30.0
NMeFOSE	LID1F		1.047		19.7	20.0	-1.4	30.0
NMeFOSA	LID1F		1.042		21.6	20.0	8.0	30.0
Perfluorododecanesulfonic acid (PFDoS)	LID1F		0.7429		20.0	19.4	3.2	30.0
NETFOSE	LID1F		1.192		21.0	20.0	5.2	30.0
NETFOSA	LID1F		1.085		20.3	20.0	1.3	30.0
Perfluorotridecanoic acid	LID1F		0.9112		22.3	20.0	11.3	30.0
Perfluorotetradecanoic acid	LID1F		0.9950		21.5	20.0	7.6	30.0
Perfluorohexadecanoic acid	LID1F		0.4300		22.5	20.0	12.7	30.0
Perfluorooctadecanoic acid	LID1F		0.2328		21.9	20.0	9.5	30.0
13C4 PFBA	Ave	1.157	1.133		9.79	10.0	-2.1	30.0
13C5 PFPeA	Ave	1.030	1.023		9.94	10.0	-0.6	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Lab Sample ID: CCV 410-41076/22 Calibration Date: 09/04/2020 13:18
 Instrument ID: 30731 Calib Start Date: 09/03/2020 13:37
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 09/03/2020 14:36
 Lab File ID: 20SEP04-19.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C3 PFBS	Ave	1.242	1.225		9.23	9.36	-1.4	30.0
M2-4:2 FTS	Ave	0.0693	0.0763		10.3	9.34	10.1	30.0
13C5 PFHxA	Ave	0.7963	0.7781		9.77	10.0	-2.3	30.0
13C3 HFPO-DA	Ave	0.1451	0.1226		8.45	10.0	-15.5	30.0
13C3 PFHxS	Ave	0.6547	0.6337		9.16	9.46	-3.2	30.0
13C4 PFHpA	Ave	0.7117	0.7097		9.97	10.0	-0.3	30.0
M2-6:2 FTS	Ave	0.0333	0.0357		10.2	9.50	7.2	30.0
13C8 PFOA	Ave	1.000	0.996		9.96	10.0	-0.4	30.0
13C8 PFOS	Ave	1.008	1.011		9.60	9.57	0.4	30.0
13C9 PFNA	Ave	1.116	1.113		9.97	10.0	-0.3	30.0
13C6 PFDA	Ave	1.209	1.201		9.93	10.0	-0.7	30.0
M2-8:2 FTS	Ave	0.0263	0.0284		10.4	9.58	8.3	30.0
13C8 FOSA	Ave	1.470	1.474		10.0	10.0	0.3	30.0
d3-NMeFOSAA	Ave	0.3941	0.4012		10.2	10.0	1.8	30.0
13C7 PFUnA	Ave	1.410	1.489		10.6	10.0	5.6	30.0
d5-NEtFOSAA	Ave	0.2730	0.2971		10.9	10.0	8.8	30.0
13C2-PFDoDA	Ave	1.447	1.397		9.65	10.0	-3.5	30.0
d7-N-MeFOSE-M	Ave	0.2389	0.2272		9.51	10.0	-4.9	30.0
d3-NMePFOSA	Ave	0.1462	0.1356		9.28	10.0	-7.2	30.0
d9-N-EtFOSE-M	Ave	0.2368	0.2293		9.68	10.0	-3.2	30.0
d5-NEtPFOSA	Ave	0.1378	0.1321		9.59	10.0	-4.1	30.0
13C2 PFTeDA	Ave	1.259	1.131		8.99	10.0	-10.1	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Lab Sample ID: CCV 410-41076/27 Calibration Date: 09/04/2020 14:07
 Instrument ID: 30731 Calib Start Date: 09/03/2020 13:37
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 09/03/2020 14:36
 Lab File ID: 20SEP04-24.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid	LID1F		0.8338		1.98	2.00	-0.9	30.0
Perfluoropentanoic acid	LID1F		0.9093		1.90	2.00	-5.1	30.0
Perfluorobutanesulfonic acid	LID1F		0.8621		1.44	1.77	-18.4	30.0
4:2 Fluorotelomer sulfonic acid	LID1F		2.739		1.83	1.87	-1.8	30.0
Perfluorohexanoic acid	LID1F		0.6926		1.65	2.00	-17.5	30.0
Perfluoropentanesulfonic acid	LID1F		0.8059		1.76	1.88	-6.4	30.0
HFPODA	LID1F		1.369		1.85	2.00	-7.4	30.0
Perfluoroheptanoic acid	LID1F		1.034		1.82	2.00	-9.1	30.0
Perfluorohexanesulfonic acid	LID1F		0.8646		1.47	1.82	-19.4	30.0
DONA	LID1F		1.589		1.57	1.89	-17.1	30.0
6:2 Fluorotelomer sulfonic acid	LID1F		4.696		1.76	1.90	-7.0	30.0
Perfluoroheptanesulfonic acid	LID1F		0.8784		1.77	1.90	-7.1	30.0
Perfluorooctanoic acid	LID1F		0.7708		1.78	2.00	-11.0	30.0
Perfluorooctanesulfonic acid	LID1F		0.9529		1.61	1.85	-12.9	30.0
Perfluorononanoic acid	LID1F		0.8008		1.72	2.00	-14.0	30.0
9Cl-PF3ONS	LID1F		1.744		1.56	1.86	-16.0	30.0
Perfluorononanesulfonic acid	LID1F		1.093		1.95	1.92	1.7	30.0
8:2 Fluorotelomer sulfonic acid	LID1F		5.970		1.74	1.92	-9.2	30.0
Perfluorodecanoic acid	LID1F		0.6636		1.66	2.00	-16.8	30.0
Perfluorooctanesulfonamide	LID1F		0.9076		1.86	2.00	-7.0	30.0
NMeFOSAA	LID1F		0.8306		1.83	2.00	-8.6	30.0
Perfluorodecanesulfonic acid	LID1F		0.9799		1.89	1.93	-1.9	30.0
Perfluoroundecanoic acid	LID1F		0.6818		1.73	2.00	-13.6	30.0
NETFOSAA	LID1F		0.8166		1.65	2.00	-17.7	30.0
11Cl-PF3OUds	LID1F		1.278		1.53	1.86	-17.6	30.0
Perfluorododecanoic acid	LID1F		0.7641		1.76	2.00	-12.1	30.0
10:2 FTS	LID1F		7.504		1.79	1.93	-7.1	30.0
NMeFOSE	LID1F		0.9389		1.77	2.00	-11.6	30.0
NMeFOSA	LID1F		0.9418		1.95	2.00	-2.4	30.0
Perfluorododecanesulfonic acid (PFDoS)	LID1F		0.7002		1.88	1.94	-2.7	30.0
NETFOSE	LID1F		1.058		1.87	2.00	-6.7	30.0
Perfluorotridecanoic acid	LID1F		0.7756		1.89	2.00	-5.3	30.0
NETFOSA	LID1F		0.9505		1.78	2.00	-11.2	30.0
Perfluorotetradecanoic acid	LID1F		0.8705		1.88	2.00	-5.8	30.0
Perfluorohexadecanoic acid	LID1F		0.4380		2.30	2.00	14.8	30.0
Perfluorooctadecanoic acid	LID1F		0.2152		2.02	2.00	1.2	30.0
13C4 PFBA	Ave	1.157	1.053		9.10	10.0	-9.0	30.0
13C5 PFPeA	Ave	1.030	0.9487		9.21	10.0	-7.9	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Lab Sample ID: CCV 410-41076/27 Calibration Date: 09/04/2020 14:07
 Instrument ID: 30731 Calib Start Date: 09/03/2020 13:37
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 09/03/2020 14:36
 Lab File ID: 20SEP04-24.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C3 PFBS	Ave	1.242	1.143		8.61	9.36	-8.0	30.0
M2-4:2 FTS	Ave	0.0693	0.0670		9.03	9.34	-3.3	30.0
13C5 PFHxA	Ave	0.7963	0.7129		8.95	10.0	-10.5	30.0
13C3 HFPO-DA	Ave	0.1451	0.1053		7.26	10.0	-27.4	30.0
13C3 PFHxS	Ave	0.6547	0.6222		8.99	9.46	-5.0	30.0
13C4 PFHpA	Ave	0.7117	0.6607		9.28	10.0	-7.2	30.0
M2-6:2 FTS	Ave	0.0333	0.0355		10.1	9.50	6.5	30.0
13C8 PFOA	Ave	1.000	0.9146		9.15	10.0	-8.5	30.0
13C8 PFOS	Ave	1.008	0.9463		8.98	9.57	-6.1	30.0
13C9 PFNA	Ave	1.116	1.044		9.35	10.0	-6.5	30.0
13C6 PFDA	Ave	1.209	1.051		8.70	10.0	-13.0	30.0
M2-8:2 FTS	Ave	0.0263	0.0269		9.81	9.58	2.4	30.0
13C8 FOSA	Ave	1.470	1.284		8.74	10.0	-12.6	30.0
d3-NMeFOSAA	Ave	0.3941	0.3208		8.14	10.0	-18.6	30.0
13C7 PFUnA	Ave	1.410	1.256		8.91	10.0	-10.9	30.0
d5-NEtFOSAA	Ave	0.2730	0.2502		9.16	10.0	-8.4	30.0
13C2-PFDoDA	Ave	1.447	1.220		8.43	10.0	-15.7	30.0
d7-N-MeFOSE-M	Ave	0.2389	0.1924		8.06	10.0	-19.4	30.0
d3-NMePFOSA	Ave	0.1462	0.1126		7.70	10.0	-23.0	30.0
d9-N-EtFOSE-M	Ave	0.2368	0.1994		8.42	10.0	-15.8	30.0
d5-NEtPFOSA	Ave	0.1378	0.1092		7.92	10.0	-20.8	30.0
13C2 PFTeDA	Ave	1.259	0.9458		7.51	10.0	-24.9	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Lab Sample ID: CCV 410-41076/50 Calibration Date: 09/04/2020 16:15
 Instrument ID: 30731 Calib Start Date: 09/03/2020 13:37
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 09/03/2020 14:36
 Lab File ID: 20SEP04-37.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid	LID1F		0.8270		7.86	8.00	-1.7	30.0
Perfluoropentanoic acid	LID1F		0.9770		8.15	8.00	1.9	30.0
Perfluorobutanesulfonic acid	LID1F		0.9601		6.43	7.08	-9.1	30.0
4:2 Fluorotelomer sulfonic acid	LID1F		2.417		6.47	7.47	-13.4	30.0
Perfluorohexanoic acid	LID1F		0.7930		7.56	8.00	-5.5	30.0
Perfluoropentanesulfonic acid	LID1F		0.8620		7.51	7.50	0.1	30.0
HFPODA	LID1F		1.521		8.23	8.00	2.9	30.0
Perfluorohexanesulfonic acid	LID1F		0.9768		6.64	7.30	-8.9	30.0
Perfluoroheptanoic acid	LID1F		1.178		8.28	8.00	3.5	30.0
DONA	LID1F		1.828		7.21	7.56	-4.6	30.0
6:2 Fluorotelomer sulfonic acid	LID1F		5.057		7.60	7.58	0.2	30.0
Perfluoroheptanesulfonic acid	LID1F		0.9077		7.31	7.62	-4.0	30.0
Perfluorooctanoic acid	LID1F		0.8836		8.16	8.00	2.0	30.0
Perfluorooctanesulfonic acid	LID1F		0.9912		6.71	7.40	-9.4	30.0
Perfluorononanoic acid	LID1F		0.8707		7.48	8.00	-6.5	30.0
9Cl-PF3ONS	LID1F		1.978		7.09	7.44	-4.8	30.0
Perfluorononanesulfonic acid	LID1F		1.060		7.58	7.68	-1.3	30.0
8:2 Fluorotelomer sulfonic acid	LID1F		6.109		7.12	7.66	-7.0	30.0
Perfluorodecanoic acid	LID1F		0.7719		7.74	8.00	-3.2	30.0
Perfluorooctanesulfonamide	LID1F		0.9120		7.48	8.00	-6.5	30.0
NMeFOSAA	LID1F		0.8778		7.72	8.00	-3.5	30.0
Perfluorodecanesulfonic acid	LID1F		0.9406		7.26	7.71	-5.8	30.0
Perfluoroundecanoic acid	LID1F		0.7479		7.58	8.00	-5.3	30.0
NETFOSAA	LID1F		0.8578		6.92	8.00	-13.5	30.0
11Cl-PF3OUds	LID1F		1.459		7.00	7.44	-5.9	30.0
Perfluorododecanoic acid	LID1F		0.8986		8.27	8.00	3.4	30.0
10:2 FTS	LID1F		6.869		6.56	7.71	-14.9	30.0
NMeFOSE	LID1F		0.9677		7.29	8.00	-8.9	30.0
NMeFOSA	LID1F		0.9447		7.83	8.00	-2.1	30.0
Perfluorododecanesulfonic acid (PFDoS)	LID1F		0.6481		6.97	7.74	-10.0	30.0
NETFOSE	LID1F		1.079		7.61	8.00	-4.8	30.0
Perfluorotridecanoic acid	LID1F		0.8112		7.93	8.00	-0.9	30.0
NETFOSA	LID1F		0.9526		7.12	8.00	-11.0	30.0
Perfluorotetradecanoic acid	LID1F		0.9391		8.13	8.00	1.6	30.0
Perfluorohexadecanoic acid	LID1F		0.3759		7.88	8.00	-1.5	30.0
Perfluorooctadecanoic acid	LID1F		0.2031		7.64	8.00	-4.5	30.0
13C4 PFBA	Ave	1.157	1.183		10.2	10.0	2.2	30.0
13C5 PFPeA	Ave	1.030	1.040		10.1	10.0	1.0	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Lab Sample ID: CCV 410-41076/50 Calibration Date: 09/04/2020 16:15
 Instrument ID: 30731 Calib Start Date: 09/03/2020 13:37
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 09/03/2020 14:36
 Lab File ID: 20SEP04-37.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C3 PFBS	Ave	1.242	1.296		9.77	9.36	4.3	30.0
M2-4:2 FTS	Ave	0.0693	0.0818		11.0	9.34	17.9	30.0
13C5 PFHxA	Ave	0.7963	0.8123		10.2	10.0	2.0	30.0
13C3 HFPO-DA	Ave	0.1451	0.1168		8.05	10.0	-19.5	30.0
13C3 PFHxS	Ave	0.6547	0.6955		10.1	9.46	6.2	30.0
13C4 PFHpA	Ave	0.7117	0.7390		10.4	10.0	3.8	30.0
M2-6:2 FTS	Ave	0.0333	0.0385		11.0	9.50	15.4	30.0
13C8 PFOA	Ave	1.000	1.036		10.4	10.0	3.6	30.0
13C8 PFOS	Ave	1.008	1.058		10.0	9.57	5.0	30.0
13C9 PFNA	Ave	1.116	1.214		10.9	10.0	8.8	30.0
13C6 PFDA	Ave	1.209	1.275		10.5	10.0	5.5	30.0
M2-8:2 FTS	Ave	0.0263	0.0330		12.0	9.58	25.6	30.0
13C8 FOSA	Ave	1.470	1.526		10.4	10.0	3.8	30.0
d3-NMeFOSAA	Ave	0.3941	0.4149		10.5	10.0	5.3	30.0
13C7 PFUnA	Ave	1.410	1.500		10.6	10.0	6.4	30.0
d5-NEtFOSAA	Ave	0.2730	0.3036		11.1	10.0	11.2	30.0
13C2-PFDoDA	Ave	1.447	1.505		10.4	10.0	4.0	30.0
d7-N-MeFOSE-M	Ave	0.2389	0.2378		9.95	10.0	-0.5	30.0
d3-NMePFOSA	Ave	0.1462	0.1372		9.38	10.0	-6.2	30.0
d9-N-EtFOSE-M	Ave	0.2368	0.2278		9.62	10.0	-3.8	30.0
d5-NEtPFOSA	Ave	0.1378	0.1354		9.82	10.0	-1.8	30.0
13C2 PFTeDA	Ave	1.259	1.263		10.0	10.0	0.3	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Lab Sample ID: CCV 410-41076/51 Calibration Date: 09/04/2020 18:03
 Instrument ID: 30731 Calib Start Date: 09/03/2020 13:37
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 09/03/2020 14:36
 Lab File ID: 20SEP04-48.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid	LID1F		0.9001		21.4	20.0	7.0	30.0
Perfluoropentanoic acid	LID1F		1.012		21.1	20.0	5.6	30.0
Perfluorobutanesulfonic acid	LID1F		1.055		17.7	17.7	-0.0	30.0
4:2 Fluorotelomer sulfonic acid	LID1F		2.650		17.7	18.7	-5.0	30.0
Perfluorohexanoic acid	LID1F		0.8272		19.7	20.0	-1.4	30.0
Perfluoropentanesulfonic acid	LID1F		0.9195		20.0	18.8	6.8	30.0
HFPODA	LID1F		1.434		19.4	20.0	-3.0	30.0
Perfluoroheptanoic acid	LID1F		1.222		21.5	20.0	7.4	30.0
Perfluorohexanesulfonic acid	LID1F		1.048		17.8	18.2	-2.3	30.0
DONA	LID1F		1.895		18.7	18.9	-1.1	30.0
6:2 Fluorotelomer sulfonic acid	LID1F		5.339		20.1	19.0	5.8	30.0
Perfluoroheptanesulfonic acid	LID1F		0.9818		19.8	19.0	3.9	30.0
Perfluorooctanoic acid	LID1F		0.8713		20.1	20.0	0.6	30.0
Perfluorooctanesulfonic acid	LID1F		1.069		18.1	18.5	-2.2	30.0
Perfluorononanoic acid	LID1F		0.9079		19.5	20.0	-2.5	30.0
9Cl-PF3ONS	LID1F		2.099		18.8	18.6	1.1	30.0
Perfluorononanesulfonic acid	LID1F		1.139		20.4	19.2	6.0	30.0
8:2 Fluorotelomer sulfonic acid	LID1F		6.569		19.2	19.2	-0.0	30.0
Perfluorodecanoic acid	LID1F		0.7792		19.5	20.0	-2.3	30.0
Perfluorooctanesulfonamide	LID1F		1.014		20.8	20.0	3.9	30.0
NMeFOSAA	LID1F		0.9340		20.5	20.0	2.7	30.0
Perfluorodecanesulfonic acid	LID1F		1.020		19.7	19.3	2.1	30.0
Perfluoroundecanoic acid	LID1F		0.8013		20.3	20.0	1.5	30.0
NETFOSAA	LID1F		0.9757		19.7	20.0	-1.6	30.0
11Cl-PF3OUds	LID1F		1.586		19.0	18.6	2.3	30.0
Perfluorododecanoic acid	LID1F		0.9146		21.0	20.0	5.2	30.0
10:2 FTS	LID1F		7.280		17.4	19.3	-9.8	30.0
NMeFOSE	LID1F		1.110		20.9	20.0	4.5	30.0
NMeFOSA	LID1F		1.018		21.1	20.0	5.5	30.0
Perfluorododecanesulfonic acid (PFDoS)	LID1F		0.7419		20.0	19.4	3.1	30.0
NETFOSE	LID1F		1.119		19.8	20.0	-1.2	30.0
Perfluorotridecanoic acid	LID1F		0.8699		21.3	20.0	6.3	30.0
NETFOSA	LID1F		1.070		20.0	20.0	-0.0	30.0
Perfluorotetradecanoic acid	LID1F		0.9508		20.6	20.0	2.8	30.0
Perfluorohexadecanoic acid	LID1F		0.4078		21.4	20.0	6.9	30.0
Perfluorooctadecanoic acid	LID1F		0.2237		21.0	20.0	5.2	30.0
13C4 PFBA	Ave	1.157	1.096		9.47	10.0	-5.3	30.0
13C5 PFPeA	Ave	1.030	0.997		9.67	10.0	-3.3	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Lab Sample ID: CCV 410-41076/51 Calibration Date: 09/04/2020 18:03
 Instrument ID: 30731 Calib Start Date: 09/03/2020 13:37
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 09/03/2020 14:36
 Lab File ID: 20SEP04-48.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C3 PFBS	Ave	1.242	1.231		9.27	9.36	-0.9	30.0
M2-4:2 FTS	Ave	0.0693	0.0748		10.1	9.34	8.0	30.0
13C5 PFHxA	Ave	0.7963	0.7660		9.62	10.0	-3.8	30.0
13C3 HFPO-DA	Ave	0.1451	0.1250		8.62	10.0	-13.8	30.0
13C3 PFHxS	Ave	0.6547	0.6675		9.65	9.46	2.0	30.0
13C4 PFHpA	Ave	0.7117	0.7065		9.93	10.0	-0.7	30.0
M2-6:2 FTS	Ave	0.0333	0.0357		10.2	9.50	7.2	30.0
13C8 PFOA	Ave	1.000	0.9730		9.73	10.0	-2.7	30.0
13C8 PFOS	Ave	1.008	0.9876		9.37	9.57	-2.0	30.0
13C9 PFNA	Ave	1.116	1.129		10.1	10.0	1.1	30.0
13C6 PFDA	Ave	1.209	1.245		10.3	10.0	3.0	30.0
M2-8:2 FTS	Ave	0.0263	0.0298		10.9	9.58	13.4	30.0
13C8 FOSA	Ave	1.470	1.423		9.68	10.0	-3.2	30.0
d3-NMeFOSAA	Ave	0.3941	0.3932		9.98	10.0	-0.2	30.0
13C7 PFUnA	Ave	1.410	1.364		9.67	10.0	-3.3	30.0
d5-NEtFOSAA	Ave	0.2730	0.2698		9.88	10.0	-1.2	30.0
13C2-PFDoDA	Ave	1.447	1.333		9.21	10.0	-7.9	30.0
d7-N-MeFOSE-M	Ave	0.2389	0.2158		9.03	10.0	-9.7	30.0
d3-NMePFOSA	Ave	0.1462	0.1359		9.29	10.0	-7.1	30.0
d9-N-EtFOSE-M	Ave	0.2368	0.2283		9.64	10.0	-3.6	30.0
d5-NEtPFOSA	Ave	0.1378	0.1279		9.28	10.0	-7.2	30.0
13C2 PFTeDA	Ave	1.259	1.203		9.55	10.0	-4.5	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Lab Sample ID: ICV 410-41778/9 Calibration Date: 09/08/2020 20:28
 Instrument ID: 30731 Calib Start Date: 09/08/2020 19:09
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 09/08/2020 20:08
 Lab File ID: 20SEP08MCAL-09.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid	LID1F		0.9004		2.15	2.00	7.3	30.0
Perfluoropentanoic acid	LID1F		0.9639		2.01	2.00	0.4	30.0
Perfluorobutanesulfonic acid	LID1F		0.997		1.71	1.77	-3.5	30.0
Perfluorohexanoic acid	LID1F		0.8126		1.98	2.00	-0.9	30.0
HFPODA	LID1F		1.609		1.86	2.00	-7.1	30.0
Perfluoroheptanoic acid	LID1F		1.251		2.24	2.00	11.9	30.0
Perfluorohexanesulfonic acid	LID1F		1.047		1.86	1.89	-1.4	30.0
DONA	LID1F		1.850		1.83	1.88	-2.9	30.0
Perfluoroheptanesulfonic acid	LID1F		1.009		2.02	1.90	5.9	30.0
Perfluorooctanoic acid	LID1F		1.000		2.25	2.00	12.3	30.0
Perfluorooctanesulfonic acid	LID1F		1.037		1.80	1.91	-5.9	30.0
Perfluorononanoic acid	LID1F		1.016		2.17	2.00	8.5	30.0
9Cl-PF3ONS	LID1F		1.992		1.87	1.86	0.2	30.0
Perfluorodecanoic acid	LID1F		0.7822		1.99	2.00	-0.6	30.0
NMeFOSAA	LID1F		1.060		2.25	2.00	12.4	30.0
Perfluorodecanesulfonic acid	LID1F		1.053		2.10	1.93	8.8	30.0
Perfluoroundecanoic acid	LID1F		0.8074		2.12	2.00	5.8	30.0
NEtFOSAA	LID1F		1.070		2.14	2.00	7.1	30.0
11Cl-PF3OUDs	LID1F		1.482		1.90	1.88	1.0	30.0
Perfluorododecanoic acid	LID1F		0.9448		2.19	2.00	9.5	30.0
Perfluorotridecanoic acid	LID1F		0.9344		2.25	2.00	12.4	30.0
Perfluorotetradecanoic acid	LID1F		1.063		2.30	2.00	14.8	30.0
13C4 PFBA	Ave	1.155	0.995		8.62	10.0	-13.8	30.0
13C5 PFPeA	Ave	1.044	0.9131		8.74	10.0	-12.6	30.0
13C3 PFBS	Ave	1.260	1.068		7.93	9.36	-15.3	30.0
M2-4:2 FTS	Ave	0.0789	0.0710		8.40	9.34	-10.1	30.0
13C5 PFHxA	Ave	0.7881	0.6941		8.81	10.0	-11.9	30.0
13C3 HFPO-DA	Ave	0.1027	0.0892		8.68	10.0	-13.2	30.0
13C3 PFHxS	Ave	0.6618	0.5657		8.09	9.46	-14.5	30.0
13C4 PFHpA	Ave	0.7381	0.6246		8.46	10.0	-15.4	30.0
M2-6:2 FTS	Ave	0.0373	0.0320		8.14	9.50	-14.3	30.0
13C8 PFOA	Ave	0.995	0.8408		8.45	10.0	-15.5	30.0
13C8 PFOS	Ave	1.030	0.8646		8.03	9.57	-16.1	30.0
13C9 PFNA	Ave	1.113	0.9375		8.42	10.0	-15.8	30.0
13C6 PFDA	Ave	1.223	1.077		8.81	10.0	-11.9	30.0
M2-8:2 FTS	Ave	0.0291	0.0268		8.82	9.58	-8.0	30.0
13C8 FOSA	Ave	1.527	1.335		8.75	10.0	-12.5	30.0
d3-NMeFOSAA	Ave	0.4017	0.3575		8.90	10.0	-11.0	30.0
13C7 PFUnA	Ave	1.451	1.271		8.76	10.0	-12.4	30.0
d5-NEtFOSAA	Ave	0.2976	0.2675		8.99	10.0	-10.1	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Lab Sample ID: ICV 410-41778/9 Calibration Date: 09/08/2020 20:28
 Instrument ID: 30731 Calib Start Date: 09/08/2020 19:09
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 09/08/2020 20:08
 Lab File ID: 20SEP08MCAL-09.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C2-PFDoDA	Ave	1.450	1.244		8.58	10.0	-14.2	30.0
d7-N-MeFOSE-M	Ave	0.2225	0.2002		9.00	10.0	-10.0	30.0
d3-NMePFOSA	Ave	0.1389	0.1132		8.15	10.0	-18.5	30.0
d9-N-EtFOSE-M	Ave	0.2259	0.2053		9.09	10.0	-9.1	30.0
d5-NEtPFOSA	Ave	0.1333	0.1139		8.55	10.0	-14.5	30.0
13C2 PFTeDA	Ave	1.163	0.9692		8.33	10.0	-16.7	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Lab Sample ID: CCV 410-41807/56 Calibration Date: 09/08/2020 21:38
 Instrument ID: 30731 Calib Start Date: 09/08/2020 19:09
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 09/08/2020 20:08
 Lab File ID: 20SEP08-03.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid	LID1F		0.8343		1.99	2.00	-0.6	30.0
Perfluoropentanoic acid	LID1F		0.9749		2.03	2.00	1.6	30.0
Perfluorobutanesulfonic acid	LID1F		0.8881		1.52	1.77	-14.1	30.0
4:2 Fluorotelomer sulfonic acid	LID1F		2.700		1.83	1.87	-1.8	30.0
Perfluorohexanoic acid	LID1F		0.6865		1.68	2.00	-16.2	30.0
Perfluoropentanesulfonic acid	LID1F		0.8383		1.92	1.88	2.2	30.0
HFPODA	LID1F		1.482		1.71	2.00	-14.4	30.0
Perfluorohexanesulfonic acid	LID1F		0.8528		1.46	1.82	-19.7	30.0
Perfluoroheptanoic acid	LID1F		0.9714		1.74	2.00	-13.1	30.0
DONA	LID1F		1.510		1.50	1.89	-20.7	30.0
6:2 Fluorotelomer sulfonic acid	LID1F		5.159		1.99	1.90	4.9	30.0
Perfluoroheptanesulfonic acid	LID1F		0.9224		1.84	1.90	-3.1	30.0
Perfluorooctanoic acid	LID1F		0.8014		1.80	2.00	-10.0	30.0
Perfluorooctanesulfonic acid	LID1F		0.9533		1.60	1.85	-13.5	30.0
Perfluorononanoic acid	LID1F		0.8089		1.73	2.00	-13.7	30.0
9Cl-PF3ONS	LID1F		1.933		1.81	1.86	-2.8	30.0
Perfluorononanesulfonic acid	LID1F		1.196		2.24	1.92	16.8	30.0
8:2 Fluorotelomer sulfonic acid	LID1F		6.544		2.02	1.92	5.3	30.0
Perfluorodecanoic acid	LID1F		0.6829		1.74	2.00	-13.2	30.0
Perfluorooctanesulfonamide	LID1F		0.9156		1.88	2.00	-6.2	30.0
NMeFOSAA	LID1F		0.8088		1.72	2.00	-14.2	30.0
Perfluorodecanesulfonic acid	LID1F		1.064		2.12	1.93	9.9	30.0
Perfluoroundecanoic acid	LID1F		0.6595		1.73	2.00	-13.5	30.0
NETFOSAA	LID1F		0.8795		1.76	2.00	-12.0	30.0
11Cl-PF3OUds	LID1F		1.524		1.93	1.86	3.8	30.0
Perfluorododecanoic acid	LID1F		0.7937		1.84	2.00	-8.0	30.0
10:2 FTS	LID1F		7.370		1.77	1.93	-8.3	30.0
NMeFOSE	LID1F		0.9683		1.83	2.00	-8.4	30.0
NMeFOSA	LID1F		0.9377		1.92	2.00	-4.1	30.0
Perfluorododecanesulfonic acid (PFDoS)	LID1F		0.7648		2.15	1.94	11.0	30.0
NETFOSE	LID1F		1.055		1.86	2.00	-7.2	30.0
NETFOSA	LID1F		0.9407		1.83	2.00	-8.5	30.0
Perfluorotridecanoic acid	LID1F		0.7699		1.85	2.00	-7.4	30.0
Perfluorotetradecanoic acid	LID1F		0.8409		1.82	2.00	-9.1	30.0
Perfluorohexadecanoic acid	LID1F		0.4211		1.97	2.00	-1.7	30.0
Perfluorooctadecanoic acid	LID1F		0.2063		1.88	2.00	-5.8	30.0
13C4 PFBA	Ave	1.155	1.079		9.34	10.0	-6.6	30.0
13C5 PFPeA	Ave	1.044	0.9922		9.50	10.0	-5.0	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Lab Sample ID: CCV 410-41807/56 Calibration Date: 09/08/2020 21:38
 Instrument ID: 30731 Calib Start Date: 09/08/2020 19:09
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 09/08/2020 20:08
 Lab File ID: 20SEP08-03.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C3 PFBS	Ave	1.260	1.203		8.93	9.36	-4.6	30.0
M2-4:2 FTS	Ave	0.0789	0.0781		9.24	9.34	-1.1	30.0
13C5 PFHxA	Ave	0.7881	0.7114		9.03	10.0	-9.7	30.0
13C3 HFPO-DA	Ave	0.1027	0.0761		7.42	10.0	-25.8	30.0
13C3 PFHxS	Ave	0.6618	0.5628		8.04	9.46	-15.0	30.0
13C4 PFHpA	Ave	0.7381	0.6404		8.68	10.0	-13.2	30.0
M2-6:2 FTS	Ave	0.0373	0.0393		10.0	9.50	5.5	30.0
13C8 PFOA	Ave	0.995	0.8965		9.01	10.0	-9.9	30.0
13C8 PFOS	Ave	1.030	0.9623		8.93	9.57	-6.6	30.0
13C9 PFNA	Ave	1.113	1.092		9.81	10.0	-1.9	30.0
13C6 PFDA	Ave	1.223	1.104		9.02	10.0	-9.8	30.0
M2-8:2 FTS	Ave	0.0291	0.0297		9.78	9.58	2.1	30.0
13C8 FOSA	Ave	1.527	1.330		8.71	10.0	-12.9	30.0
d3-NMeFOSAA	Ave	0.4017	0.3288		8.19	10.0	-18.1	30.0
13C7 PFUnA	Ave	1.451	1.370		9.44	10.0	-5.6	30.0
d5-NEtFOSAA	Ave	0.2976	0.2358		7.92	10.0	-20.8	30.0
13C2-PFDoDA	Ave	1.450	1.323		9.13	10.0	-8.7	30.0
d7-N-MeFOSE-M	Ave	0.2225	0.1806		8.12	10.0	-18.8	30.0
d3-NMePFOSA	Ave	0.1389	0.1114		8.02	10.0	-19.8	30.0
d9-N-EtFOSE-M	Ave	0.2259	0.1860		8.24	10.0	-17.6	30.0
d5-NEtPFOSA	Ave	0.1333	0.1082		8.11	10.0	-18.9	30.0
13C2 PFTeDA	Ave	1.163	0.997		8.57	10.0	-14.3	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Lab Sample ID: CCV 410-41807/88 Calibration Date: 09/09/2020 00:24
 Instrument ID: 30731 Calib Start Date: 09/08/2020 19:09
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 09/08/2020 20:08
 Lab File ID: 20SEP08-20.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid	LID1F		0.8075		7.70	8.00	-3.8	30.0
Perfluoropentanoic acid	LID1F		0.9266		7.72	8.00	-3.5	30.0
Perfluorobutanesulfonic acid	LID1F		0.996		6.83	7.08	-3.6	30.0
4:2 Fluorotelomer sulfonic acid	LID1F		2.569		6.98	7.47	-6.5	30.0
Perfluoroheptanoic acid	LID1F		0.7385		7.21	8.00	-9.9	30.0
Perfluoropentanesulfonic acid	LID1F		0.8559		7.83	7.50	4.3	30.0
HFPODA	LID1F		1.572		7.26	8.00	-9.2	30.0
Perfluoroheptanoic acid	LID1F		1.213		8.68	8.00	8.5	30.0
Perfluoroheptanesulfonic acid	LID1F		1.014		6.97	7.30	-4.5	30.0
DONA	LID1F		1.858		7.37	7.56	-2.5	30.0
6:2 Fluorotelomer sulfonic acid	LID1F		4.632		7.14	7.58	-5.8	30.0
Perfluoroheptanesulfonic acid	LID1F		0.9352		7.48	7.62	-1.8	30.0
Perfluorooctanoic acid	LID1F		0.8957		8.04	8.00	0.6	30.0
Perfluorooctanesulfonic acid	LID1F		1.050		7.05	7.40	-4.7	30.0
Perfluorononanoic acid	LID1F		0.8960		7.65	8.00	-4.4	30.0
9Cl-PF3ONS	LID1F		1.993		7.46	7.44	0.2	30.0
Perfluorononanesulfonic acid	LID1F		1.015		7.61	7.68	-0.9	30.0
8:2 Fluorotelomer sulfonic acid	LID1F		6.565		8.09	7.66	5.6	30.0
Perfluorodecanoic acid	LID1F		0.7870		8.00	8.00	0.0	30.0
Perfluorooctanesulfonamide	LID1F		0.9429		7.73	8.00	-3.4	30.0
NMeFOSAA	LID1F		0.9522		8.08	8.00	1.0	30.0
Perfluorodecanesulfonic acid	LID1F		0.9598		7.65	7.71	-0.8	30.0
Perfluoroundecanoic acid	LID1F		0.7763		8.14	8.00	1.8	30.0
NETFOSAA	LID1F		0.9096		7.28	8.00	-9.0	30.0
11Cl-PF3OUds	LID1F		1.537		7.79	7.44	4.7	30.0
Perfluorododecanoic acid	LID1F		0.9231		8.56	8.00	6.9	30.0
10:2 FTS	LID1F		8.097		7.77	7.71	0.8	30.0
NMeFOSE	LID1F		1.002		7.58	8.00	-5.2	30.0
NMeFOSA	LID1F		0.9093		7.44	8.00	-7.0	30.0
Perfluorododecanesulfonic acid (PFDoS)	LID1F		0.6910		7.77	7.74	0.3	30.0
NETFOSE	LID1F		1.103		7.76	8.00	-2.9	30.0
Perfluorotridecanoic acid	LID1F		0.8635		8.31	8.00	3.9	30.0
NETFOSA	LID1F		0.9465		7.37	8.00	-7.9	30.0
Perfluorotetradecanoic acid	LID1F		0.9695		8.38	8.00	4.7	30.0
Perfluorohexadecanoic acid	LID1F		0.4112		7.68	8.00	-4.0	30.0
Perfluorooctadecanoic acid	LID1F		0.2298		8.39	8.00	4.9	30.0
13C4 PFBA	Ave	1.155	1.189		10.3	10.0	3.0	30.0
13C5 PFPeA	Ave	1.044	1.037		9.93	10.0	-0.7	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Lab Sample ID: CCV 410-41807/88 Calibration Date: 09/09/2020 00:24
 Instrument ID: 30731 Calib Start Date: 09/08/2020 19:09
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 09/08/2020 20:08
 Lab File ID: 20SEP08-20.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C3 PFBS	Ave	1.260	1.272		9.45	9.36	0.9	30.0
M2-4:2 FTS	Ave	0.0789	0.0790		9.34	9.34	0.0	30.0
13C5 PFHxA	Ave	0.7881	0.8136		10.3	10.0	3.2	30.0
13C3 HFPO-DA	Ave	0.1027	0.1055		10.3	10.0	2.7	30.0
13C3 PFHxS	Ave	0.6618	0.6628		9.48	9.46	0.2	30.0
13C4 PFHpA	Ave	0.7381	0.7154		9.69	10.0	-3.1	30.0
M2-6:2 FTS	Ave	0.0373	0.0399		10.2	9.50	7.0	30.0
13C8 PFOA	Ave	0.995	1.014		10.2	10.0	1.9	30.0
13C8 PFOS	Ave	1.030	1.058		9.83	9.57	2.7	30.0
13C9 PFNA	Ave	1.113	1.150		10.3	10.0	3.3	30.0
13C6 PFDA	Ave	1.223	1.281		10.5	10.0	4.7	30.0
M2-8:2 FTS	Ave	0.0291	0.0309		10.2	9.58	6.0	30.0
13C8 FOSA	Ave	1.527	1.536		10.1	10.0	0.6	30.0
d3-NMeFOSAA	Ave	0.4017	0.4060		10.1	10.0	1.1	30.0
13C7 PFUnA	Ave	1.451	1.523		10.5	10.0	4.9	30.0
d5-NEtFOSAA	Ave	0.2976	0.3182		10.7	10.0	6.9	30.0
13C2-PFDoDA	Ave	1.450	1.511		10.4	10.0	4.2	30.0
d7-N-MeFOSE-M	Ave	0.2225	0.2200		9.88	10.0	-1.2	30.0
d3-NMePFOSA	Ave	0.1389	0.1383		9.95	10.0	-0.5	30.0
d9-N-EtFOSE-M	Ave	0.2259	0.2174		9.63	10.0	-3.7	30.0
d5-NEtPFOSA	Ave	0.1333	0.1297		9.73	10.0	-2.7	30.0
13C2 PFTeDA	Ave	1.163	1.224		10.5	10.0	5.2	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Lab Sample ID: CCV 410-42076/10 Calibration Date: 09/09/2020 15:24
 Instrument ID: 30731 Calib Start Date: 09/08/2020 19:09
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 09/08/2020 20:08
 Lab File ID: 20SEP09-14.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid	LID1F		0.8360		7.97	8.00	-0.4	30.0
Perfluoropentanoic acid	LID1F		0.9264		7.72	8.00	-3.5	30.0
Perfluorobutanesulfonic acid	LID1F		0.9933		6.80	7.08	-3.9	30.0
4:2 Fluorotelomer sulfonic acid	LID1F		2.658		7.22	7.47	-3.3	30.0
Perfluoroheptanoic acid	LID1F		0.7928		7.74	8.00	-3.3	30.0
Perfluoropentanesulfonic acid	LID1F		0.8559		7.83	7.50	4.3	30.0
HFPODA	LID1F		1.856		8.58	8.00	7.2	30.0
Perfluoroheptanoic acid	LID1F		1.178		8.43	8.00	5.4	30.0
Perfluorohexanesulfonic acid	LID1F		0.9883		6.79	7.30	-7.0	30.0
DONA	LID1F		1.780		7.06	7.56	-6.6	30.0
6:2 Fluorotelomer sulfonic acid	LID1F		4.694		7.24	7.58	-4.5	30.0
Perfluoroheptanesulfonic acid	LID1F		0.9406		7.52	7.62	-1.2	30.0
Perfluorooctanoic acid	LID1F		0.9075		8.15	8.00	1.9	30.0
Perfluorooctanesulfonic acid	LID1F		1.112		7.47	7.40	0.9	30.0
Perfluorononanoic acid	LID1F		0.9530		8.14	8.00	1.7	30.0
9Cl-PF3ONS	LID1F		2.261		8.46	7.44	13.7	30.0
Perfluorononanesulfonic acid	LID1F		1.135		8.51	7.68	10.8	30.0
8:2 Fluorotelomer sulfonic acid	LID1F		6.718		8.28	7.66	8.1	30.0
Perfluorodecanoic acid	LID1F		0.7753		7.88	8.00	-1.5	30.0
Perfluorooctanesulfonamide	LID1F		0.9315		7.63	8.00	-4.6	30.0
NMeFOSAA	LID1F		0.9611		8.16	8.00	2.0	30.0
Perfluorodecanesulfonic acid	LID1F		1.049		8.36	7.71	8.4	30.0
Perfluoroundecanoic acid	LID1F		0.7638		8.01	8.00	0.1	30.0
NETFOSAA	LID1F		0.9618		7.70	8.00	-3.7	30.0
11Cl-PF3OUds	LID1F		1.718		8.71	7.44	17.1	30.0
Perfluorododecanoic acid	LID1F		0.8755		8.11	8.00	1.4	30.0
10:2 FTS	LID1F		7.387		7.09	7.71	-8.1	30.0
NMeFOSE	LID1F		0.9724		7.36	8.00	-8.0	30.0
NMeFOSA	LID1F		0.9448		7.73	8.00	-3.4	30.0
Perfluorododecanesulfonic acid (PFDoS)	LID1F		0.7521		8.45	7.74	9.2	30.0
NETFOSE	LID1F		1.048		7.38	8.00	-7.8	30.0
Perfluorotridecanoic acid	LID1F		0.8640		8.31	8.00	3.9	30.0
NETFOSA	LID1F		0.9689		7.54	8.00	-5.7	30.0
Perfluorotetradecanoic acid	LID1F		0.8966		7.75	8.00	-3.1	30.0
Perfluorohexadecanoic acid	LID1F		0.3971		7.42	8.00	-7.3	30.0
Perfluorooctadecanoic acid	LID1F		0.2119		7.74	8.00	-3.3	30.0
13C4 PFBA	Ave	1.155	1.189		10.3	10.0	2.9	30.0
13C5 PFPeA	Ave	1.044	1.081		10.4	10.0	3.5	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Lab Sample ID: CCV 410-42076/10 Calibration Date: 09/09/2020 15:24
 Instrument ID: 30731 Calib Start Date: 09/08/2020 19:09
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 09/08/2020 20:08
 Lab File ID: 20SEP09-14.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C3 PFBS	Ave	1.260	1.284		9.54	9.36	1.9	30.0
M2-4:2 FTS	Ave	0.0789	0.0768		9.09	9.34	-2.7	30.0
13C5 PFHxA	Ave	0.7881	0.8070		10.2	10.0	2.4	30.0
13C3 HFPO-DA	Ave	0.1027	0.0859		8.37	10.0	-16.3	30.0
13C3 PFHxS	Ave	0.6618	0.6801		9.72	9.46	2.8	30.0
13C4 PFHpA	Ave	0.7381	0.7425		10.1	10.0	0.6	30.0
M2-6:2 FTS	Ave	0.0373	0.0411		10.5	9.50	10.2	30.0
13C8 PFOA	Ave	0.995	1.006		10.1	10.0	1.1	30.0
13C8 PFOS	Ave	1.030	1.058		9.82	9.57	2.7	30.0
13C9 PFNA	Ave	1.113	1.205		10.8	10.0	8.3	30.0
13C6 PFDA	Ave	1.223	1.261		10.3	10.0	3.1	30.0
M2-8:2 FTS	Ave	0.0291	0.0304		10.0	9.58	4.4	30.0
13C8 FOSA	Ave	1.527	1.628		10.7	10.0	6.7	30.0
d3-NMeFOSAA	Ave	0.4017	0.3997		9.95	10.0	-0.5	30.0
13C7 PFUnA	Ave	1.451	1.490		10.3	10.0	2.7	30.0
d5-NEtFOSAA	Ave	0.2976	0.2998		10.1	10.0	0.7	30.0
13C2-PFDoDA	Ave	1.450	1.483		10.2	10.0	2.3	30.0
d7-N-MeFOSE-M	Ave	0.2225	0.2277		10.2	10.0	2.3	30.0
d3-NMePFOSA	Ave	0.1389	0.1328		9.56	10.0	-4.4	30.0
d9-N-EtFOSE-M	Ave	0.2259	0.2265		10.0	10.0	0.3	30.0
d5-NEtPFOSA	Ave	0.1333	0.1236		9.27	10.0	-7.3	30.0
13C2 PFTeDA	Ave	1.163	1.179		10.1	10.0	1.4	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Lab Sample ID: CCV 410-42076/15 Calibration Date: 09/09/2020 17:59
 Instrument ID: 30731 Calib Start Date: 09/08/2020 19:09
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 09/08/2020 20:08
 Lab File ID: 20SEP09-23.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid	LID1F		0.8788		20.9	20.0	4.7	30.0
Perfluoropentanoic acid	LID1F		1.012		21.1	20.0	5.4	30.0
Perfluorobutanesulfonic acid	LID1F		1.086		18.6	17.7	5.0	30.0
4:2 Fluorotelomer sulfonic acid	LID1F		2.725		18.5	18.7	-0.9	30.0
Perfluoroheptanoic acid	LID1F		0.8471		20.7	20.0	3.4	30.0
Perfluoropentanesulfonic acid	LID1F		0.9277		21.2	18.8	13.1	30.0
HFPODA	LID1F		1.922		22.2	20.0	11.0	30.0
Perfluoroheptanoic acid	LID1F		1.193		21.3	20.0	6.7	30.0
Perfluorohexanesulfonic acid	LID1F		1.019		17.5	18.2	-4.1	30.0
DONA	LID1F		1.898		18.8	18.9	-0.4	30.0
6:2 Fluorotelomer sulfonic acid	LID1F		5.393		20.8	19.0	9.7	30.0
Perfluoroheptanesulfonic acid	LID1F		0.999		20.0	19.0	4.9	30.0
Perfluorooctanoic acid	LID1F		0.8666		19.5	20.0	-2.7	30.0
Perfluorooctanesulfonic acid	LID1F		1.133		19.0	18.5	2.9	30.0
Perfluorononanoic acid	LID1F		0.9032		19.3	20.0	-3.6	30.0
9Cl-PF3ONS	LID1F		2.115		19.8	18.6	6.3	30.0
Perfluorononanesulfonic acid	LID1F		1.123		21.1	19.2	9.6	30.0
Perfluorodecanoic acid	LID1F		0.7853		20.0	20.0	-0.2	30.0
8:2 Fluorotelomer sulfonic acid	LID1F		7.116		21.9	19.2	14.5	30.0
Perfluorooctanesulfonamide	LID1F		1.027		21.0	20.0	5.2	30.0
NMeFOSAA	LID1F		0.9482		20.1	20.0	0.6	30.0
Perfluorodecanesulfonic acid	LID1F		1.028		20.5	19.3	6.2	30.0
Perfluoroundecanoic acid	LID1F		0.7833		20.5	20.0	2.7	30.0
NETFOSAA	LID1F		0.9064		18.1	20.0	-9.3	30.0
11Cl-PF3OUds	LID1F		1.592		20.2	18.6	8.5	30.0
Perfluorododecanoic acid	LID1F		0.9515		22.0	20.0	10.2	30.0
10:2 FTS	LID1F		9.203		22.1	19.3	14.5	30.0
NMeFOSE	LID1F		1.052		19.9	20.0	-0.5	30.0
NMeFOSA	LID1F		1.038		21.2	20.0	6.2	30.0
Perfluorododecanesulfonic acid (PFDoS)	LID1F		0.7702		21.6	19.4	11.8	30.0
NETFOSE	LID1F		1.115		19.6	20.0	-1.9	30.0
Perfluorotridecanoic acid	LID1F		0.9122		21.9	20.0	9.7	30.0
NETFOSA	LID1F		1.075		20.9	20.0	4.6	30.0
Perfluorotetradecanoic acid	LID1F		0.999		21.6	20.0	8.0	30.0
Perfluorohexadecanoic acid	LID1F		0.4357		20.3	20.0	1.7	30.0
Perfluorooctadecanoic acid	LID1F		0.2411		22.0	20.0	10.1	30.0
13C4 PFBA	Ave	1.155	1.125		9.74	10.0	-2.6	30.0
13C5 PFPeA	Ave	1.044	1.048		10.0	10.0	0.4	30.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Lab Sample ID: CCV 410-42076/15 Calibration Date: 09/09/2020 17:59
 Instrument ID: 30731 Calib Start Date: 09/08/2020 19:09
 GC Column: Gemini C18 50mm ID: 3.00 (mm) Calib End Date: 09/08/2020 20:08
 Lab File ID: 20SEP09-23.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C3 PFBS	Ave	1.260	1.263		9.38	9.36	0.2	30.0
M2-4:2 FTS	Ave	0.0789	0.0845		10.0	9.34	7.0	30.0
13C5 PFHxA	Ave	0.7881	0.7800		9.90	10.0	-1.0	30.0
13C3 HFPO-DA	Ave	0.1027	0.0870		8.48	10.0	-15.2	30.0
13C3 PFHxS	Ave	0.6618	0.6670		9.54	9.46	0.8	30.0
13C4 PFHpA	Ave	0.7381	0.7208		9.77	10.0	-2.3	30.0
M2-6:2 FTS	Ave	0.0373	0.0380		9.68	9.50	1.9	30.0
13C8 PFOA	Ave	0.995	1.000		10.0	10.0	0.5	30.0
13C8 PFOS	Ave	1.030	0.9738		9.04	9.57	-5.5	30.0
13C9 PFNA	Ave	1.113	1.095		9.84	10.0	-1.6	30.0
13C6 PFDA	Ave	1.223	1.187		9.71	10.0	-2.9	30.0
M2-8:2 FTS	Ave	0.0291	0.0288		9.47	9.58	-1.2	30.0
13C8 FOSA	Ave	1.527	1.428		9.35	10.0	-6.5	30.0
d3-NMeFOSAA	Ave	0.4017	0.3997		9.95	10.0	-0.5	30.0
13C7 PFUnA	Ave	1.451	1.457		10.0	10.0	0.4	30.0
d5-NEtFOSAA	Ave	0.2976	0.3114		10.5	10.0	4.6	30.0
13C2-PFDoDA	Ave	1.450	1.408		9.71	10.0	-2.9	30.0
d7-N-MeFOSE-M	Ave	0.2225	0.2146		9.64	10.0	-3.6	30.0
d3-NMePFOSA	Ave	0.1389	0.1316		9.47	10.0	-5.3	30.0
d9-N-EtFOSE-M	Ave	0.2259	0.2230		9.88	10.0	-1.2	30.0
d5-NEtPFOSA	Ave	0.1333	0.1245		9.34	10.0	-6.6	30.0
13C2 PFTeDA	Ave	1.163	1.172		10.1	10.0	0.7	30.0

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 410-40650/1-B
 Matrix: Water Lab File ID: 20SEP04-20.d
 Analysis Method: 537 IDA Date Collected: _____
 Extraction Method: EPA 537 (Mod) Date Extracted: 09/03/2020 10:16
 Sample wt/vol: 1(mL) Date Analyzed: 09/04/2020 13:28
 Con. Extract Vol.: 20(mL) Dilution Factor: 1
 Injection Volume: 4(uL) GC Column: Gemini C18 50mm ID: 3(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 41076 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	ND		1000	250
375-85-9	Perfluoroheptanoic acid	ND		1000	250
335-67-1	Perfluorooctanoic acid	ND		1000	250
375-95-1	Perfluorononanoic acid	ND		1000	250
335-76-2	Perfluorodecanoic acid	ND		1000	250
72629-94-8	Perfluorotridecanoic acid	ND		1000	250
376-06-7	Perfluorotetradecanoic acid	ND		1000	250
375-73-5	Perfluorobutanesulfonic acid	ND		1000	250
355-46-4	Perfluorohexanesulfonic acid	ND		1000	250
1763-23-1	Perfluorooctanesulfonic acid	ND		1000	250
2991-50-6	NEtFOSAA	ND		1500	250
2355-31-9	NMeFOSAA	ND		1000	300
120226-60-0	10:2 FTS	ND		2500	500
2706-91-4	Perfluoropentanesulfonic acid	ND		1000	250
375-92-8	Perfluoroheptanesulfonic acid	ND		1000	250
68259-12-1	Perfluorononanesulfonic acid	ND		1000	250
335-77-3	Perfluorodecanesulfonic acid	ND		1000	250
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1500	250
754-91-6	Perfluorooctanesulfonamide	ND		1000	250
67905-19-5	Perfluorohexadecanoic acid	ND		1500	500
16517-11-6	Perfluorooctadecanoic acid	ND		1500	500
375-22-4	Perfluorobutanoic acid	ND		2500	1000
2706-90-3	Perfluoropentanoic acid	ND		1000	250
24448-09-7	NMeFOSE	ND		1500	500
31506-32-8	NMeFOSA	ND		1500	500
1691-99-2	NEtFOSE	ND		1500	500
4151-50-2	NEtFOSA	ND		2500	500
13252-13-6	HFPODA	ND		1500	250
919005-14-4	DONA	ND		1000	250
756426-58-1	9Cl-PF3ONS	ND		1000	250
763051-92-9	11Cl-PF3OUdS	ND		1000	250
307-55-1	Perfluorododecanoic acid	ND		1000	250
757124-72-4	4:2 Fluorotelomer sulfonic acid	ND		1000	250
2058-94-8	Perfluoroundecanoic acid	ND		1000	250

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 410-40650/1-B
 Matrix: Water Lab File ID: 20SEP04-20.d
 Analysis Method: 537 IDA Date Collected: _____
 Extraction Method: EPA 537 (Mod) Date Extracted: 09/03/2020 10:16
 Sample wt/vol: 1(mL) Date Analyzed: 09/04/2020 13:28
 Con. Extract Vol.: 20(mL) Dilution Factor: 1
 Injection Volume: 4(uL) GC Column: Gemini C18 50mm ID: 3(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 41076 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
27619-97-2	6:2 Fluorotelomer sulfonic acid	ND		2500	1000
39108-34-4	8:2 Fluorotelomer sulfonic acid	ND		1500	500

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STI02395	M2-4:2 FTS	68		20-187
STI02280	M2-8:2 FTS	62		34-182
STI02279	M2-6:2 FTS	58		29-189
STI02577	13C5 PFHxA	65		31-142
STI01892	13C4 PFHpA	56		30-144
STI01052	13C8 PFOA	54		49-127
STI02578	13C9 PFNA	59		47-136
STI02579	13C6 PFDA	61		47-128
STI02580	13C7 PFUnA	67		40-135
STI02703	13C2-PFDoDA	70		28-136
STI02116	13C2 PFTeDA	72		10-144
STI02337	13C3 PFBS	34		19-178
STI02581	13C3 PFHxS	34		32-145
STI01054	13C8 PFOS	40	*5	49-126
STI02118	d3-NMeFOSAA	56		32-151
STI02117	d5-NEtFOSAA	58		37-164
STI01056	13C8 FOSA	36		10-143
STI00992	13C4 PFBA	75		41-132
STI01893	13C5 PFPeA	75		33-155
STI02277	d7-N-MeFOSE-M	0.5	*5	10-143
STI02705	d3-NMePFOSA	0.3	*5	10-107
STI02278	d9-N-EtFOSE-M	0.7	*5	10-142
STI02704	d5-NEtPFOSA	0.1	*5	10-108
STI02255	13C3 HFPO-DA	50		20-153

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 410-40676/1-A
 Matrix: Water Lab File ID: 20SEP04-25.d
 Analysis Method: 537 IDA Date Collected: _____
 Extraction Method: 537 IDA Date Extracted: 09/03/2020 11:02
 Sample wt/vol: 250 (mL) Date Analyzed: 09/04/2020 14:17
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 4 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 41076 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	ND		2.0	0.50
375-85-9	Perfluoroheptanoic acid	ND		2.0	0.50
335-67-1	Perfluorooctanoic acid	ND		2.0	0.50
375-95-1	Perfluorononanoic acid	ND		2.0	0.50
335-76-2	Perfluorodecanoic acid	ND		2.0	0.50
72629-94-8	Perfluorotridecanoic acid	ND		2.0	0.50
376-06-7	Perfluorotetradecanoic acid	ND		2.0	0.50
375-73-5	Perfluorobutanesulfonic acid	ND		2.0	0.50
355-46-4	Perfluorohexanesulfonic acid	ND		2.0	0.50
1763-23-1	Perfluorooctanesulfonic acid	ND		2.0	0.50
2991-50-6	NETFOSAA	ND		3.0	0.50
2355-31-9	NMeFOSAA	ND		2.0	0.60
120226-60-0	10:2 FTS	ND		5.0	1.0
2706-91-4	Perfluoropentanesulfonic acid	ND		2.0	0.50
375-92-8	Perfluoroheptanesulfonic acid	ND		2.0	0.50
68259-12-1	Perfluorononanesulfonic acid	ND		2.0	0.50
335-77-3	Perfluorodecanesulfonic acid	ND		2.0	0.50
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		3.0	0.50
754-91-6	Perfluorooctanesulfonamide	ND		2.0	0.50
67905-19-5	Perfluorohexadecanoic acid	ND		3.0	1.0
16517-11-6	Perfluorooctadecanoic acid	ND		3.0	1.0
375-22-4	Perfluorobutanoic acid	ND		5.0	2.0
2706-90-3	Perfluoropentanoic acid	ND		2.0	0.50
24448-09-7	NMeFOSE	ND		3.0	1.0
31506-32-8	NMeFOSA	ND		3.0	1.0
1691-99-2	NETFOSE	ND		3.0	1.0
4151-50-2	NETFOSA	ND		5.0	1.0
13252-13-6	HFPODA	ND		3.0	0.50
919005-14-4	DONA	ND		2.0	0.50
756426-58-1	9Cl-PF3ONS	ND		2.0	0.50
763051-92-9	11Cl-PF3OUdS	ND		2.0	0.50
307-55-1	Perfluorododecanoic acid	ND		2.0	0.50
757124-72-4	4:2 Fluorotelomer sulfonic acid	ND		2.0	0.50
2058-94-8	Perfluoroundecanoic acid	ND		2.0	0.50

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 410-40676/1-A
 Matrix: Water Lab File ID: 20SEP04-25.d
 Analysis Method: 537 IDA Date Collected: _____
 Extraction Method: 537 IDA Date Extracted: 09/03/2020 11:02
 Sample wt/vol: 250 (mL) Date Analyzed: 09/04/2020 14:17
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 4 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 41076 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
27619-97-2	6:2 Fluorotelomer sulfonic acid	ND		5.0	2.0
39108-34-4	8:2 Fluorotelomer sulfonic acid	ND		3.0	1.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STI02395	M2-4:2 FTS	94		20-187
STI02280	M2-8:2 FTS	101		34-182
STI02279	M2-6:2 FTS	96		29-189
STI02577	13C5 PFHxA	85		31-142
STI01892	13C4 PFHpA	83		30-144
STI01052	13C8 PFOA	86		49-127
STI02578	13C9 PFNA	91		47-136
STI02579	13C6 PFDA	85		47-128
STI02580	13C7 PFUnA	87		40-135
STI02703	13C2-PFDoDA	85		28-136
STI02116	13C2 PFTeDA	77		10-144
STI02337	13C3 PFBS	91		19-178
STI02581	13C3 PFHxS	83		32-145
STI01054	13C8 PFOS	86		49-126
STI02118	d3-NMeFOSAA	81		32-151
STI02117	d5-NEtFOSAA	86		37-164
STI01056	13C8 FOSA	77		10-143
STI00992	13C4 PFBA	87		41-132
STI01893	13C5 PFPeA	92		33-155
STI02277	d7-N-MeFOSE-M	73		10-143
STI02705	d3-NMePFOSA	58		10-107
STI02278	d9-N-EtFOSE-M	75		10-142
STI02704	d5-NEtPFOSA	59		10-108
STI02255	13C3 HFPO-DA	63		20-153

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 410-41621/1-B
 Matrix: Water Lab File ID: 20SEP09-20.d
 Analysis Method: 537 IDA Date Collected: _____
 Extraction Method: EPA 537 (Mod) Date Extracted: 09/08/2020 10:16
 Sample wt/vol: 1(mL) Date Analyzed: 09/09/2020 17:29
 Con. Extract Vol.: 20(mL) Dilution Factor: 1
 Injection Volume: 4(uL) GC Column: Gemini C18 50mm ID: 3(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 42076 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	ND		1000	250
375-85-9	Perfluoroheptanoic acid	ND		1000	250
335-67-1	Perfluorooctanoic acid	ND		1000	250
375-95-1	Perfluorononanoic acid	ND		1000	250
335-76-2	Perfluorodecanoic acid	ND		1000	250
72629-94-8	Perfluorotridecanoic acid	ND		1000	250
376-06-7	Perfluorotetradecanoic acid	ND		1000	250
375-73-5	Perfluorobutanesulfonic acid	ND		1000	250
355-46-4	Perfluorohexanesulfonic acid	ND		1000	250
1763-23-1	Perfluorooctanesulfonic acid	ND		1000	250
2991-50-6	NEtFOSAA	ND		1500	250
2355-31-9	NMeFOSAA	ND		1000	300
120226-60-0	10:2 FTS	ND		2500	500
2706-91-4	Perfluoropentanesulfonic acid	ND		1000	250
375-92-8	Perfluoroheptanesulfonic acid	ND		1000	250
68259-12-1	Perfluorononanesulfonic acid	ND		1000	250
335-77-3	Perfluorodecanesulfonic acid	ND		1000	250
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		1500	250
754-91-6	Perfluorooctanesulfonamide	ND		1000	250
67905-19-5	Perfluorohexadecanoic acid	ND		1500	500
16517-11-6	Perfluorooctadecanoic acid	ND		1500	500
375-22-4	Perfluorobutanoic acid	ND		2500	1000
2706-90-3	Perfluoropentanoic acid	ND		1000	250
24448-09-7	NMeFOSE	ND		1500	500
31506-32-8	NMeFOSA	ND		1500	500
1691-99-2	NEtFOSE	830	J	1500	500
4151-50-2	NEtFOSA	ND		2500	500
13252-13-6	HFPODA	ND		1500	250
919005-14-4	DONA	ND		1000	250
756426-58-1	9Cl-PF3ONS	ND		1000	250
763051-92-9	11Cl-PF3OUdS	ND		1000	250
307-55-1	Perfluorododecanoic acid	ND		1000	250
757124-72-4	4:2 Fluorotelomer sulfonic acid	ND		1000	250
2058-94-8	Perfluoroundecanoic acid	ND		1000	250

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 410-41621/1-B
 Matrix: Water Lab File ID: 20SEP09-20.d
 Analysis Method: 537 IDA Date Collected: _____
 Extraction Method: EPA 537 (Mod) Date Extracted: 09/08/2020 10:16
 Sample wt/vol: 1(mL) Date Analyzed: 09/09/2020 17:29
 Con. Extract Vol.: 20(mL) Dilution Factor: 1
 Injection Volume: 4(uL) GC Column: Gemini C18 50mm ID: 3(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 42076 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
27619-97-2	6:2 Fluorotelomer sulfonic acid	ND		2500	1000
39108-34-4	8:2 Fluorotelomer sulfonic acid	ND		1500	500

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STI02395	M2-4:2 FTS	109		20-187
STI02280	M2-8:2 FTS	123		34-182
STI02279	M2-6:2 FTS	108		29-189
STI02577	13C5 PFHxA	106		31-142
STI01892	13C4 PFHpA	107		30-144
STI01052	13C8 PFOA	109		49-127
STI02578	13C9 PFNA	108		47-136
STI02579	13C6 PFDA	112		47-128
STI02580	13C7 PFUnA	111		40-135
STI02703	13C2-PFDoDA	116		28-136
STI02116	13C2 PFTeDA	102		10-144
STI02337	13C3 PFBS	105		19-178
STI02581	13C3 PFHxS	108		32-145
STI01054	13C8 PFOS	105		49-126
STI02118	d3-NMeFOSAA	101		32-151
STI02117	d5-NEtFOSAA	106		37-164
STI01056	13C8 FOSA	92		10-143
STI00992	13C4 PFBA	108		41-132
STI01893	13C5 PFPeA	111		33-155
STI02277	d7-N-MeFOSE-M	2	*5	10-143
STI02705	d3-NMePFOSA	4	*5	10-107
STI02278	d9-N-EtFOSE-M	2	*5	10-142
STI02704	d5-NEtPFOSA	1	*5	10-108
STI02255	13C3 HFPO-DA	80		20-153

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: ICB 410-40712/8
 Matrix: Water Lab File ID: 20SEP03MCAL-12.d
 Analysis Method: 537 IDA Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(uL) Date Analyzed: 09/03/2020 14:46
 Con. Extract Vol.: _____ Dilution Factor: 1
 Injection Volume: 4(uL) GC Column: Gemini C18 50mm ID: 3(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 40712 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	ND		0.50	0.13
375-85-9	Perfluoroheptanoic acid	ND		0.50	0.13
335-67-1	Perfluorooctanoic acid	ND		0.50	0.13
375-95-1	Perfluorononanoic acid	ND		0.50	0.13
335-76-2	Perfluorodecanoic acid	ND		0.50	0.13
72629-94-8	Perfluorotridecanoic acid	0.155	J	0.50	0.13
376-06-7	Perfluorotetradecanoic acid	0.190	J	0.50	0.13
375-73-5	Perfluorobutanesulfonic acid	ND		0.50	0.13
355-46-4	Perfluorohexanesulfonic acid	ND		0.50	0.13
1763-23-1	Perfluorooctanesulfonic acid	ND		0.50	0.13
2991-50-6	NETFOSAA	0.562	J	1.3	0.13
2355-31-9	NMeFOSAA	0.362	J	0.50	0.15
120226-60-0	10:2 FTS	ND		1.3	0.25
2706-91-4	Perfluoropentanesulfonic acid	ND		0.50	0.13
375-92-8	Perfluoroheptanesulfonic acid	ND		0.50	0.13
68259-12-1	Perfluorononanesulfonic acid	ND		0.50	0.13
335-77-3	Perfluorodecanesulfonic acid	ND		0.50	0.13
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		0.75	0.13
754-91-6	Perfluorooctanesulfonamide	ND		0.50	0.13
67905-19-5	Perfluorohexadecanoic acid	0.254	J	0.75	0.25
16517-11-6	Perfluorooctadecanoic acid	ND		0.75	0.25
375-22-4	Perfluorobutanoic acid	ND		1.3	0.50
2706-90-3	Perfluoropentanoic acid	ND		0.50	0.13
24448-09-7	NMeFOSE	ND		0.75	0.25
31506-32-8	NMeFOSA	ND		0.75	0.25
1691-99-2	NETFOSE	ND		0.75	0.25
4151-50-2	NETFOSA	ND		0.75	0.25
13252-13-6	HFPODA	ND		0.75	0.13
919005-14-4	DONA	ND		0.50	0.13
756426-58-1	9Cl-PF3ONS	ND		0.50	0.13
763051-92-9	11Cl-PF3OUdS	ND		0.50	0.13
307-55-1	Perfluorododecanoic acid	ND		0.50	0.13
757124-72-4	4:2 Fluorotelomer sulfonic acid	ND		0.50	0.25
2058-94-8	Perfluoroundecanoic acid	ND		0.50	0.13

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: ICB 410-40712/8
 Matrix: Water Lab File ID: 20SEP03MCAL-12.d
 Analysis Method: 537 IDA Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(uL) Date Analyzed: 09/03/2020 14:46
 Con. Extract Vol.: _____ Dilution Factor: 1
 Injection Volume: 4(uL) GC Column: Gemini C18 50mm ID: 3(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 40712 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
27619-97-2	6:2 Fluorotelomer sulfonic acid	ND		1.3	0.50
39108-34-4	8:2 Fluorotelomer sulfonic acid	ND		0.75	0.25

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STI02395	M2-4:2 FTS	99		20-187
STI02280	M2-8:2 FTS	117		34-182
STI02279	M2-6:2 FTS	108		29-189
STI02577	13C5 PFHxA	102		31-142
STI01892	13C4 PFHpA	99		30-144
STI01052	13C8 PFOA	108		49-127
STI02578	13C9 PFNA	113		47-136
STI02579	13C6 PFDA	116		47-128
STI02580	13C7 PFUnA	114		40-135
STI02703	13C2-PFDODA	107		28-136
STI02116	13C2 PFTeDA	105		10-144
STI02337	13C3 PFBS	109		19-178
STI02581	13C3 PFHxS	104		32-145
STI01054	13C8 PFOS	108		49-126
STI02118	d3-NMeFOSAA	113		32-151
STI02117	d5-NEtFOSAA	110		37-164
STI01056	13C8 FOSA	109		10-143
STI00992	13C4 PFBA	108		41-132
STI01893	13C5 PFPeA	108		33-155
STI02277	d7-N-MeFOSE-M	105		10-143
STI02705	d3-NMePFOSA	103		10-107
STI02278	d9-N-EtFOSE-M	106		10-142
STI02704	d5-NEtPFOSA	103		10-108
STI02255	13C3 HFPO-DA	100		20-153

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: ICB 410-41778/8
 Matrix: Water Lab File ID: 20SEP08MCAL-08.d
 Analysis Method: 537 IDA Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(uL) Date Analyzed: 09/08/2020 20:18
 Con. Extract Vol.: _____ Dilution Factor: 1
 Injection Volume: 4(uL) GC Column: Gemini C18 50mm ID: 3(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 41778 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	ND		0.50	0.13
375-85-9	Perfluoroheptanoic acid	ND		0.50	0.13
335-67-1	Perfluorooctanoic acid	ND		0.50	0.13
375-95-1	Perfluorononanoic acid	ND		0.50	0.13
335-76-2	Perfluorodecanoic acid	ND		0.50	0.13
72629-94-8	Perfluorotridecanoic acid	ND		0.50	0.13
376-06-7	Perfluorotetradecanoic acid	0.157	J	0.50	0.13
375-73-5	Perfluorobutanesulfonic acid	ND		0.50	0.13
355-46-4	Perfluorohexanesulfonic acid	ND		0.50	0.13
1763-23-1	Perfluorooctanesulfonic acid	ND		0.50	0.13
2991-50-6	NETFOSAA	0.557	J	1.3	0.13
2355-31-9	NMeFOSAA	0.486	J	0.50	0.15
120226-60-0	10:2 FTS	ND		1.3	0.25
2706-91-4	Perfluoropentanesulfonic acid	ND		0.50	0.13
375-92-8	Perfluoroheptanesulfonic acid	ND		0.50	0.13
68259-12-1	Perfluorononanesulfonic acid	ND		0.50	0.13
335-77-3	Perfluorodecanesulfonic acid	ND		0.50	0.13
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	ND		0.75	0.13
754-91-6	Perfluorooctanesulfonamide	ND		0.50	0.13
67905-19-5	Perfluorohexadecanoic acid	ND		0.75	0.25
16517-11-6	Perfluorooctadecanoic acid	ND		0.75	0.25
375-22-4	Perfluorobutanoic acid	ND		1.3	0.50
2706-90-3	Perfluoropentanoic acid	ND		0.50	0.13
24448-09-7	NMeFOSE	ND		0.75	0.25
31506-32-8	NMeFOSA	ND		0.75	0.25
1691-99-2	NETFOSE	ND		0.75	0.25
4151-50-2	NETFOSA	ND		0.75	0.25
13252-13-6	HFPODA	0.134	J	0.75	0.13
919005-14-4	DONA	ND		0.50	0.13
756426-58-1	9Cl-PF3ONS	ND		0.50	0.13
763051-92-9	11Cl-PF3OUdS	ND		0.50	0.13
307-55-1	Perfluorododecanoic acid	ND		0.50	0.13
757124-72-4	4:2 Fluorotelomer sulfonic acid	ND		0.50	0.25
2058-94-8	Perfluoroundecanoic acid	ND		0.50	0.13

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: ICB 410-41778/8
 Matrix: Water Lab File ID: 20SEP08MCAL-08.d
 Analysis Method: 537 IDA Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(uL) Date Analyzed: 09/08/2020 20:18
 Con. Extract Vol.: _____ Dilution Factor: 1
 Injection Volume: 4(uL) GC Column: Gemini C18 50mm ID: 3(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 41778 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
27619-97-2	6:2 Fluorotelomer sulfonic acid	ND		1.3	0.50
39108-34-4	8:2 Fluorotelomer sulfonic acid	ND		0.75	0.25

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STI02395	M2-4:2 FTS	102		20-187
STI02280	M2-8:2 FTS	103		34-182
STI02279	M2-6:2 FTS	101		29-189
STI02577	13C5 PFHxA	107		31-142
STI01892	13C4 PFHpA	99		30-144
STI01052	13C8 PFOA	109		49-127
STI02578	13C9 PFNA	106		47-136
STI02579	13C6 PFDA	108		47-128
STI02580	13C7 PFUnA	112		40-135
STI02703	13C2-PFDoDA	106		28-136
STI02116	13C2 PFTeDA	106		10-144
STI02337	13C3 PFBS	107		19-178
STI02581	13C3 PFHxS	102		32-145
STI01054	13C8 PFOS	104		49-126
STI02118	d3-NMeFOSAA	101		32-151
STI02117	d5-NEtFOSAA	107		37-164
STI01056	13C8 FOSA	105		10-143
STI00992	13C4 PFBA	110		41-132
STI01893	13C5 PFPeA	111		33-155
STI02277	d7-N-MeFOSE-M	103		10-143
STI02705	d3-NMePFOSA	101		10-107
STI02278	d9-N-EtFOSE-M	100		10-142
STI02704	d5-NEtPFOSA	99		10-108
STI02255	13C3 HFPO-DA	101		20-153

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 410-40650/2-B
 Matrix: Water Lab File ID: 20SEP04-21.d
 Analysis Method: 537 IDA Date Collected: _____
 Extraction Method: EPA 537 (Mod) Date Extracted: 09/03/2020 10:16
 Sample wt/vol: 1(mL) Date Analyzed: 09/04/2020 13:38
 Con. Extract Vol.: 20(mL) Dilution Factor: 1
 Injection Volume: 4(uL) GC Column: Gemini C18 50mm ID: 3(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 41076 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	5840		1000	250
375-85-9	Perfluoroheptanoic acid	6580		1000	250
335-67-1	Perfluorooctanoic acid	6060		1000	250
375-95-1	Perfluorononanoic acid	5870		1000	250
335-76-2	Perfluorodecanoic acid	6060		1000	250
72629-94-8	Perfluorotridecanoic acid	7260		1000	250
376-06-7	Perfluorotetradecanoic acid	6530		1000	250
375-73-5	Perfluorobutanesulfonic acid	5070		1000	250
355-46-4	Perfluorohexanesulfonic acid	5150		1000	250
1763-23-1	Perfluorooctanesulfonic acid	4820		1000	250
2991-50-6	NETFOSAA	6890		1500	250
2355-31-9	NMeFOSAA	7230		1000	300
120226-60-0	10:2 FTS	6050		2500	500
2706-91-4	Perfluoropentanesulfonic acid	6110		1000	250
375-92-8	Perfluoroheptanesulfonic acid	6170		1000	250
68259-12-1	Perfluorononanesulfonic acid	6430		1000	250
335-77-3	Perfluorodecanesulfonic acid	6040		1000	250
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	6760		1500	250
754-91-6	Perfluorooctanesulfonamide	6340		1000	250
67905-19-5	Perfluorohexadecanoic acid	6290		1500	500
16517-11-6	Perfluorooctadecanoic acid	6200		1500	500
375-22-4	Perfluorobutanoic acid	6600		2500	1000
2706-90-3	Perfluoropentanoic acid	6110		1000	250
24448-09-7	NMeFOSE	5400		1500	500
31506-32-8	NMeFOSA	5630		1500	500
1691-99-2	NETFOSE	8320		1500	500
4151-50-2	NETFOSA	5540		2500	500
13252-13-6	HFPODA	6880		1500	250
919005-14-4	DONA	5870		1000	250
756426-58-1	9Cl-PF3ONS	5070		1000	250
763051-92-9	11Cl-PF3OUdS	5090		1000	250
307-55-1	Perfluorododecanoic acid	6770		1000	250
757124-72-4	4:2 Fluorotelomer sulfonic acid	6310		1000	250
2058-94-8	Perfluoroundecanoic acid	6150		1000	250

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 410-40650/2-B
 Matrix: Water Lab File ID: 20SEP04-21.d
 Analysis Method: 537 IDA Date Collected: _____
 Extraction Method: EPA 537 (Mod) Date Extracted: 09/03/2020 10:16
 Sample wt/vol: 1(mL) Date Analyzed: 09/04/2020 13:38
 Con. Extract Vol.: 20(mL) Dilution Factor: 1
 Injection Volume: 4(uL) GC Column: Gemini C18 50mm ID: 3(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 41076 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
27619-97-2	6:2 Fluorotelomer sulfonic acid	6280		2500	1000
39108-34-4	8:2 Fluorotelomer sulfonic acid	6570		1500	500

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STI02395	M2-4:2 FTS	69		20-187
STI02280	M2-8:2 FTS	68		34-182
STI02279	M2-6:2 FTS	71		29-189
STI02577	13C5 PFHxA	68		31-142
STI01892	13C4 PFHpA	65		30-144
STI01052	13C8 PFOA	65		49-127
STI02578	13C9 PFNA	65		47-136
STI02579	13C6 PFDA	62		47-128
STI02580	13C7 PFUnA	65		40-135
STI02703	13C2-PFDoDA	63		28-136
STI02116	13C2 PFTeDA	71		10-144
STI02337	13C3 PFBS	44		19-178
STI02581	13C3 PFHxS	42		32-145
STI01054	13C8 PFOS	45	*5	49-126
STI02118	d3-NMeFOSAA	59		32-151
STI02117	d5-NEtFOSAA	60		37-164
STI01056	13C8 FOSA	53		10-143
STI00992	13C4 PFBA	74		41-132
STI01893	13C5 PFPeA	74		33-155
STI02277	d7-N-MeFOSE-M	2	*5	10-143
STI02705	d3-NMePFOSA	2	*5	10-107
STI02278	d9-N-EtFOSE-M	2	*5	10-142
STI02704	d5-NEtPFOSA	1	*5	10-108
STI02255	13C3 HFPO-DA	50		20-153

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 410-40676/2-A
 Matrix: Water Lab File ID: 20SEP04-26.d
 Analysis Method: 537 IDA Date Collected: _____
 Extraction Method: 537 IDA Date Extracted: 09/03/2020 11:02
 Sample wt/vol: 250 (mL) Date Analyzed: 09/04/2020 14:27
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 4 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 41076 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	22.8		2.0	0.50
375-85-9	Perfluoroheptanoic acid	26.1		2.0	0.50
335-67-1	Perfluorooctanoic acid	24.3		2.0	0.50
375-95-1	Perfluorononanoic acid	24.0		2.0	0.50
335-76-2	Perfluorodecanoic acid	23.7		2.0	0.50
72629-94-8	Perfluorotridecanoic acid	26.3		2.0	0.50
376-06-7	Perfluorotetradecanoic acid	26.5		2.0	0.50
375-73-5	Perfluorobutanesulfonic acid	21.7		2.0	0.50
355-46-4	Perfluorohexanesulfonic acid	21.1		2.0	0.50
1763-23-1	Perfluorooctanesulfonic acid	20.5		2.0	0.50
2991-50-6	NETFOSAA	27.4		3.0	0.50
2355-31-9	NMeFOSAA	30.6		2.0	0.60
120226-60-0	10:2 FTS	26.5		5.0	1.0
2706-91-4	Perfluoropentanesulfonic acid	23.2		2.0	0.50
375-92-8	Perfluoroheptanesulfonic acid	24.5		2.0	0.50
68259-12-1	Perfluorononanesulfonic acid	25.9		2.0	0.50
335-77-3	Perfluorodecanesulfonic acid	24.5		2.0	0.50
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	22.9		3.0	0.50
754-91-6	Perfluorooctanesulfonamide	26.2		2.0	0.50
67905-19-5	Perfluorohexadecanoic acid	25.3		3.0	1.0
16517-11-6	Perfluorooctadecanoic acid	26.1		3.0	1.0
375-22-4	Perfluorobutanoic acid	25.2		5.0	2.0
2706-90-3	Perfluoropentanoic acid	23.6		2.0	0.50
24448-09-7	NMeFOSE	25.8		3.0	1.0
31506-32-8	NMeFOSA	26.4		3.0	1.0
1691-99-2	NETFOSE	25.3		3.0	1.0
4151-50-2	NETFOSA	24.4		5.0	1.0
13252-13-6	HFPODA	28.8		3.0	0.50
919005-14-4	DONA	22.8		2.0	0.50
756426-58-1	9Cl-PF3ONS	21.9		2.0	0.50
763051-92-9	11Cl-PF3OUdS	22.3		2.0	0.50
307-55-1	Perfluorododecanoic acid	26.0		2.0	0.50
757124-72-4	4:2 Fluorotelomer sulfonic acid	22.9		2.0	0.50
2058-94-8	Perfluoroundecanoic acid	25.5		2.0	0.50

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 410-40676/2-A
 Matrix: Water Lab File ID: 20SEP04-26.d
 Analysis Method: 537 IDA Date Collected: _____
 Extraction Method: 537 IDA Date Extracted: 09/03/2020 11:02
 Sample wt/vol: 250 (mL) Date Analyzed: 09/04/2020 14:27
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 4 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 41076 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
27619-97-2	6:2 Fluorotelomer sulfonic acid	25.6		5.0	2.0
39108-34-4	8:2 Fluorotelomer sulfonic acid	26.9		3.0	1.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STI02395	M2-4:2 FTS	104		20-187
STI02280	M2-8:2 FTS	102		34-182
STI02279	M2-6:2 FTS	103		29-189
STI02577	13C5 PFHxA	92		31-142
STI01892	13C4 PFHpA	92		30-144
STI01052	13C8 PFOA	92		49-127
STI02578	13C9 PFNA	97		47-136
STI02579	13C6 PFDA	99		47-128
STI02580	13C7 PFUnA	97		40-135
STI02703	13C2-PFDODA	95		28-136
STI02116	13C2 PFTeDA	94		10-144
STI02337	13C3 PFBS	92		19-178
STI02581	13C3 PFHxS	90		32-145
STI01054	13C8 PFOS	90		49-126
STI02118	d3-NMeFOSAA	90		32-151
STI02117	d5-NEtFOSAA	98		37-164
STI01056	13C8 FOSA	85		10-143
STI00992	13C4 PFBA	90		41-132
STI01893	13C5 PFPeA	96		33-155
STI02277	d7-N-MeFOSE-M	78		10-143
STI02705	d3-NMePFOSA	61		10-107
STI02278	d9-N-EtFOSE-M	80		10-142
STI02704	d5-NEtPFOSA	59		10-108
STI02255	13C3 HFPO-DA	65		20-153

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 410-41621/2-B
 Matrix: Water Lab File ID: 20SEP09-19.d
 Analysis Method: 537 IDA Date Collected: _____
 Extraction Method: EPA 537 (Mod) Date Extracted: 09/08/2020 10:16
 Sample wt/vol: 1(mL) Date Analyzed: 09/09/2020 17:20
 Con. Extract Vol.: 20(mL) Dilution Factor: 1
 Injection Volume: 4(uL) GC Column: Gemini C18 50mm ID: 3(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 42076 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	5650		1000	250
375-85-9	Perfluoroheptanoic acid	6030		1000	250
335-67-1	Perfluorooctanoic acid	5400		1000	250
375-95-1	Perfluorononanoic acid	5650		1000	250
335-76-2	Perfluorodecanoic acid	5530		1000	250
72629-94-8	Perfluorotridecanoic acid	5880		1000	250
376-06-7	Perfluorotetradecanoic acid	6110		1000	250
375-73-5	Perfluorobutanesulfonic acid	5020		1000	250
355-46-4	Perfluorohexanesulfonic acid	5120		1000	250
1763-23-1	Perfluorooctanesulfonic acid	4720		1000	250
2991-50-6	NETFOSAA	6090		1500	250
2355-31-9	NMeFOSAA	6390		1000	300
120226-60-0	10:2 FTS	8300		2500	500
2706-91-4	Perfluoropentanesulfonic acid	5860		1000	250
375-92-8	Perfluoroheptanesulfonic acid	5550		1000	250
68259-12-1	Perfluorononanesulfonic acid	5900		1000	250
335-77-3	Perfluorodecanesulfonic acid	5700		1000	250
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	5510		1500	250
754-91-6	Perfluorooctanesulfonamide	5790		1000	250
67905-19-5	Perfluorohexadecanoic acid	5640		1500	500
16517-11-6	Perfluorooctadecanoic acid	6220		1500	500
375-22-4	Perfluorobutanoic acid	6380		2500	1000
2706-90-3	Perfluoropentanoic acid	5680		1000	250
24448-09-7	NMeFOSE	4800		1500	500
31506-32-8	NMeFOSA	5560		1500	500
1691-99-2	NETFOSE	6490		1500	500
4151-50-2	NETFOSA	5560		2500	500
13252-13-6	HFPODA	6120		1500	250
919005-14-4	DONA	5130		1000	250
756426-58-1	9Cl-PF3ONS	5130		1000	250
763051-92-9	11Cl-PF3OUdS	5210		1000	250
307-55-1	Perfluorododecanoic acid	6180		1000	250
757124-72-4	4:2 Fluorotelomer sulfonic acid	5980		1000	250
2058-94-8	Perfluoroundecanoic acid	6020		1000	250

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 410-41621/2-B
 Matrix: Water Lab File ID: 20SEP09-19.d
 Analysis Method: 537 IDA Date Collected: _____
 Extraction Method: EPA 537 (Mod) Date Extracted: 09/08/2020 10:16
 Sample wt/vol: 1(mL) Date Analyzed: 09/09/2020 17:20
 Con. Extract Vol.: 20(mL) Dilution Factor: 1
 Injection Volume: 4(uL) GC Column: Gemini C18 50mm ID: 3(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 42076 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
27619-97-2	6:2 Fluorotelomer sulfonic acid	6010		2500	1000
39108-34-4	8:2 Fluorotelomer sulfonic acid	6270		1500	500

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STI02395	M2-4:2 FTS	97		20-187
STI02280	M2-8:2 FTS	101		34-182
STI02279	M2-6:2 FTS	102		29-189
STI02577	13C5 PFHxA	100		31-142
STI01892	13C4 PFHpA	99		30-144
STI01052	13C8 PFOA	102		49-127
STI02578	13C9 PFNA	102		47-136
STI02579	13C6 PFDA	105		47-128
STI02580	13C7 PFUnA	109		40-135
STI02703	13C2-PFDoDA	112		28-136
STI02116	13C2 PFTeDA	100		10-144
STI02337	13C3 PFBS	100		19-178
STI02581	13C3 PFHxS	96		32-145
STI01054	13C8 PFOS	104		49-126
STI02118	d3-NMeFOSAA	104		32-151
STI02117	d5-NEtFOSAA	108		37-164
STI01056	13C8 FOSA	88		10-143
STI00992	13C4 PFBA	105		41-132
STI01893	13C5 PFPeA	103		33-155
STI02277	d7-N-MeFOSE-M	4	*5	10-143
STI02705	d3-NMePFOSA	5	*5	10-107
STI02278	d9-N-EtFOSE-M	3	*5	10-142
STI02704	d5-NEtPFOSA	3	*5	10-108
STI02255	13C3 HFPO-DA	82		20-153

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 410-40650/3-B
 Matrix: Water Lab File ID: 20SEP04-22.d
 Analysis Method: 537 IDA Date Collected: _____
 Extraction Method: EPA 537 (Mod) Date Extracted: 09/03/2020 10:16
 Sample wt/vol: 1(mL) Date Analyzed: 09/04/2020 13:48
 Con. Extract Vol.: 20(mL) Dilution Factor: 1
 Injection Volume: 4(uL) GC Column: Gemini C18 50mm ID: 3(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 41076 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	6000		1000	250
375-85-9	Perfluoroheptanoic acid	6360		1000	250
335-67-1	Perfluorooctanoic acid	6060		1000	250
375-95-1	Perfluorononanoic acid	6320		1000	250
335-76-2	Perfluorodecanoic acid	6000		1000	250
72629-94-8	Perfluorotridecanoic acid	7780		1000	250
376-06-7	Perfluorotetradecanoic acid	6820		1000	250
375-73-5	Perfluorobutanesulfonic acid	5260		1000	250
355-46-4	Perfluorohexanesulfonic acid	5240		1000	250
1763-23-1	Perfluorooctanesulfonic acid	5030		1000	250
2991-50-6	NETFOSAA	7140		1500	250
2355-31-9	NMeFOSAA	7610		1000	300
120226-60-0	10:2 FTS	7230		2500	500
2706-91-4	Perfluoropentanesulfonic acid	5910		1000	250
375-92-8	Perfluoroheptanesulfonic acid	6050		1000	250
68259-12-1	Perfluorononanesulfonic acid	6510		1000	250
335-77-3	Perfluorodecanesulfonic acid	6420		1000	250
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	8140		1500	250
754-91-6	Perfluorooctanesulfonamide	6460		1000	250
67905-19-5	Perfluorohexadecanoic acid	7170		1500	500
16517-11-6	Perfluorooctadecanoic acid	7030		1500	500
375-22-4	Perfluorobutanoic acid	6720		2500	1000
2706-90-3	Perfluoropentanoic acid	6060		1000	250
24448-09-7	NMeFOSE	6160		1500	500
31506-32-8	NMeFOSA	5050		1500	500
1691-99-2	NETFOSE	5570		1500	500
4151-50-2	NETFOSA	6150		2500	500
13252-13-6	HFPODA	7230		1500	250
919005-14-4	DONA	5710		1000	250
756426-58-1	9Cl-PF3ONS	5020		1000	250
763051-92-9	11Cl-PF3OUdS	5450		1000	250
307-55-1	Perfluorododecanoic acid	6830		1000	250
757124-72-4	4:2 Fluorotelomer sulfonic acid	6390		1000	250
2058-94-8	Perfluoroundecanoic acid	6140		1000	250

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 410-40650/3-B
 Matrix: Water Lab File ID: 20SEP04-22.d
 Analysis Method: 537 IDA Date Collected: _____
 Extraction Method: EPA 537 (Mod) Date Extracted: 09/03/2020 10:16
 Sample wt/vol: 1(mL) Date Analyzed: 09/04/2020 13:48
 Con. Extract Vol.: 20(mL) Dilution Factor: 1
 Injection Volume: 4(uL) GC Column: Gemini C18 50mm ID: 3(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 41076 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
27619-97-2	6:2 Fluorotelomer sulfonic acid	6220		2500	1000
39108-34-4	8:2 Fluorotelomer sulfonic acid	6860		1500	500

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STI02395	M2-4:2 FTS	60		20-187
STI02280	M2-8:2 FTS	53		34-182
STI02279	M2-6:2 FTS	57		29-189
STI02577	13C5 PFHxA	55		31-142
STI01892	13C4 PFHpA	55		30-144
STI01052	13C8 PFOA	52		49-127
STI02578	13C9 PFNA	52		47-136
STI02579	13C6 PFDA	52		47-128
STI02580	13C7 PFUnA	55		40-135
STI02703	13C2-PFDODA	57		28-136
STI02116	13C2 PFTeDA	64		10-144
STI02337	13C3 PFBS	42		19-178
STI02581	13C3 PFHxS	38		32-145
STI01054	13C8 PFOS	40	*5	49-126
STI02118	d3-NMeFOSAA	47		32-151
STI02117	d5-NEtFOSAA	49		37-164
STI01056	13C8 FOSA	43		10-143
STI00992	13C4 PFBA	66		41-132
STI01893	13C5 PFPeA	65		33-155
STI02277	d7-N-MeFOSE-M	2	*5	10-143
STI02705	d3-NMePFOSA	2	*5	10-107
STI02278	d9-N-EtFOSE-M	2	*5	10-142
STI02704	d5-NEtPFOSA	0.7	*5	10-108
STI02255	13C3 HFPO-DA	41		20-153

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 410-40676/3-A
 Matrix: Water Lab File ID: 20SEP04-27.d
 Analysis Method: 537 IDA Date Collected: _____
 Extraction Method: 537 IDA Date Extracted: 09/03/2020 11:02
 Sample wt/vol: 250 (mL) Date Analyzed: 09/04/2020 14:37
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 4 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 41076 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	23.8		2.0	0.50
375-85-9	Perfluoroheptanoic acid	26.2		2.0	0.50
335-67-1	Perfluorooctanoic acid	24.3		2.0	0.50
375-95-1	Perfluorononanoic acid	24.0		2.0	0.50
335-76-2	Perfluorodecanoic acid	23.8		2.0	0.50
72629-94-8	Perfluorotridecanoic acid	27.0		2.0	0.50
376-06-7	Perfluorotetradecanoic acid	26.5		2.0	0.50
375-73-5	Perfluorobutanesulfonic acid	20.6		2.0	0.50
355-46-4	Perfluorohexanesulfonic acid	21.8		2.0	0.50
1763-23-1	Perfluorooctanesulfonic acid	20.5		2.0	0.50
2991-50-6	NETFOSAA	26.8		3.0	0.50
2355-31-9	NMeFOSAA	27.5		2.0	0.60
120226-60-0	10:2 FTS	22.9		5.0	1.0
2706-91-4	Perfluoropentanesulfonic acid	23.1		2.0	0.50
375-92-8	Perfluoroheptanesulfonic acid	24.7		2.0	0.50
68259-12-1	Perfluorononanesulfonic acid	24.4		2.0	0.50
335-77-3	Perfluorodecanesulfonic acid	22.6		2.0	0.50
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	21.0		3.0	0.50
754-91-6	Perfluorooctanesulfonamide	26.6		2.0	0.50
67905-19-5	Perfluorohexadecanoic acid	24.6		3.0	1.0
16517-11-6	Perfluorooctadecanoic acid	25.0		3.0	1.0
375-22-4	Perfluorobutanoic acid	26.2		5.0	2.0
2706-90-3	Perfluoropentanoic acid	24.6		2.0	0.50
24448-09-7	NMeFOSE	23.6		3.0	1.0
31506-32-8	NMeFOSA	25.9		3.0	1.0
1691-99-2	NETFOSE	25.7		3.0	1.0
4151-50-2	NETFOSA	24.3		5.0	1.0
13252-13-6	HFPODA	25.6		3.0	0.50
919005-14-4	DONA	23.2		2.0	0.50
756426-58-1	9Cl-PF3ONS	20.8		2.0	0.50
763051-92-9	11Cl-PF3OUdS	19.6		2.0	0.50
307-55-1	Perfluorododecanoic acid	26.2		2.0	0.50
757124-72-4	4:2 Fluorotelomer sulfonic acid	23.6		2.0	0.50
2058-94-8	Perfluoroundecanoic acid	24.1		2.0	0.50

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 410-40676/3-A
 Matrix: Water Lab File ID: 20SEP04-27.d
 Analysis Method: 537 IDA Date Collected: _____
 Extraction Method: 537 IDA Date Extracted: 09/03/2020 11:02
 Sample wt/vol: 250 (mL) Date Analyzed: 09/04/2020 14:37
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 4 (uL) GC Column: Gemini C18 50mm ID: 3 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 41076 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
27619-97-2	6:2 Fluorotelomer sulfonic acid	25.2		5.0	2.0
39108-34-4	8:2 Fluorotelomer sulfonic acid	26.4		3.0	1.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STI02395	M2-4:2 FTS	107		20-187
STI02280	M2-8:2 FTS	103		34-182
STI02279	M2-6:2 FTS	102		29-189
STI02577	13C5 PFHxA	91		31-142
STI01892	13C4 PFHpA	89		30-144
STI01052	13C8 PFOA	95		49-127
STI02578	13C9 PFNA	98		47-136
STI02579	13C6 PFDA	97		47-128
STI02580	13C7 PFUnA	95		40-135
STI02703	13C2-PFDODA	86		28-136
STI02116	13C2 PFTeDA	82		10-144
STI02337	13C3 PFBS	95		19-178
STI02581	13C3 PFHxS	84		32-145
STI01054	13C8 PFOS	91		49-126
STI02118	d3-NMeFOSAA	87		32-151
STI02117	d5-NEtFOSAA	90		37-164
STI01056	13C8 FOSA	79		10-143
STI00992	13C4 PFBA	92		41-132
STI01893	13C5 PFPeA	97		33-155
STI02277	d7-N-MeFOSE-M	70		10-143
STI02705	d3-NMePFOSA	37		10-107
STI02278	d9-N-EtFOSE-M	66		10-142
STI02704	d5-NEtPFOSA	35		10-108
STI02255	13C3 HFPO-DA	71		20-153

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 410-41621/3-B
 Matrix: Water Lab File ID: 20SEP09-21.d
 Analysis Method: 537 IDA Date Collected: _____
 Extraction Method: EPA 537 (Mod) Date Extracted: 09/08/2020 10:16
 Sample wt/vol: 1(mL) Date Analyzed: 09/09/2020 17:39
 Con. Extract Vol.: 20(mL) Dilution Factor: 1
 Injection Volume: 4(uL) GC Column: Gemini C18 50mm ID: 3(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 42076 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
307-24-4	Perfluorohexanoic acid	5720		1000	250
375-85-9	Perfluoroheptanoic acid	6150		1000	250
335-67-1	Perfluorooctanoic acid	5520		1000	250
375-95-1	Perfluorononanoic acid	5600		1000	250
335-76-2	Perfluorodecanoic acid	5660		1000	250
72629-94-8	Perfluorotridecanoic acid	5350		1000	250
376-06-7	Perfluorotetradecanoic acid	6180		1000	250
375-73-5	Perfluorobutanesulfonic acid	5070		1000	250
355-46-4	Perfluorohexanesulfonic acid	5180		1000	250
1763-23-1	Perfluorooctanesulfonic acid	4810		1000	250
2991-50-6	NETFOSAA	6220		1500	250
2355-31-9	NMeFOSAA	6620		1000	300
120226-60-0	10:2 FTS	9740		2500	500
2706-91-4	Perfluoropentanesulfonic acid	5920		1000	250
375-92-8	Perfluoroheptanesulfonic acid	5590		1000	250
68259-12-1	Perfluorononanesulfonic acid	6320		1000	250
335-77-3	Perfluorodecanesulfonic acid	5610		1000	250
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	5620		1500	250
754-91-6	Perfluorooctanesulfonamide	6060		1000	250
67905-19-5	Perfluorohexadecanoic acid	5790		1500	500
16517-11-6	Perfluorooctadecanoic acid	6460		1500	500
375-22-4	Perfluorobutanoic acid	6430		2500	1000
2706-90-3	Perfluoropentanoic acid	6070		1000	250
24448-09-7	NMeFOSE	5780		1500	500
31506-32-8	NMeFOSA	6010		1500	500
1691-99-2	NETFOSE	3940		1500	500
4151-50-2	NETFOSA	6220		2500	500
13252-13-6	HFPODA	5340		1500	250
919005-14-4	DONA	5400		1000	250
756426-58-1	9Cl-PF3ONS	5080		1000	250
763051-92-9	11Cl-PF3OUdS	5260		1000	250
307-55-1	Perfluorododecanoic acid	6120		1000	250
757124-72-4	4:2 Fluorotelomer sulfonic acid	5770		1000	250
2058-94-8	Perfluoroundecanoic acid	5560		1000	250

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 410-41621/3-B
 Matrix: Water Lab File ID: 20SEP09-21.d
 Analysis Method: 537 IDA Date Collected: _____
 Extraction Method: EPA 537 (Mod) Date Extracted: 09/08/2020 10:16
 Sample wt/vol: 1(mL) Date Analyzed: 09/09/2020 17:39
 Con. Extract Vol.: 20(mL) Dilution Factor: 1
 Injection Volume: 4(uL) GC Column: Gemini C18 50mm ID: 3(mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 42076 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
27619-97-2	6:2 Fluorotelomer sulfonic acid	5880		2500	1000
39108-34-4	8:2 Fluorotelomer sulfonic acid	6150		1500	500

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STI02395	M2-4:2 FTS	94		20-187
STI02280	M2-8:2 FTS	92		34-182
STI02279	M2-6:2 FTS	97		29-189
STI02577	13C5 PFHxA	92		31-142
STI01892	13C4 PFHpA	89		30-144
STI01052	13C8 PFOA	95		49-127
STI02578	13C9 PFNA	96		47-136
STI02579	13C6 PFDA	95		47-128
STI02580	13C7 PFUnA	98		40-135
STI02703	13C2-PFDODA	106		28-136
STI02116	13C2 PFTeDA	89		10-144
STI02337	13C3 PFBS	98		19-178
STI02581	13C3 PFHxS	91		32-145
STI01054	13C8 PFOS	94		49-126
STI02118	d3-NMeFOSAA	88		32-151
STI02117	d5-NEtFOSAA	91		37-164
STI01056	13C8 FOSA	67		10-143
STI00992	13C4 PFBA	97		41-132
STI01893	13C5 PFPeA	98		33-155
STI02277	d7-N-MeFOSE-M	6	*5	10-143
STI02705	d3-NMePFOSA	11		10-107
STI02278	d9-N-EtFOSE-M	5	*5	10-142
STI02704	d5-NEtPFOSA	6	*5	10-108
STI02255	13C3 HFPO-DA	87		20-153

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Instrument ID: 30731 Start Date: 09/03/2020 13:37

Analysis Batch Number: 40712 End Date: 09/03/2020 15:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-40712/1		09/03/2020 13:37	1	20SEP03MCAL-05. d	Gemini C18 50mm 3(mm)
IC 410-40712/2		09/03/2020 13:47	1	20SEP03MCAL-06. d	Gemini C18 50mm 3(mm)
IC 410-40712/3		09/03/2020 13:57	1	20SEP03MCAL-07. d	Gemini C18 50mm 3(mm)
IC 410-40712/4		09/03/2020 14:07	1	20SEP03MCAL-08. d	Gemini C18 50mm 3(mm)
ICISAV 410-40712/5		09/03/2020 14:16	1	20SEP03MCAL-09. d	Gemini C18 50mm 3(mm)
IC 410-40712/6		09/03/2020 14:26	1	20SEP03MCAL-10. d	Gemini C18 50mm 3(mm)
IC 410-40712/7		09/03/2020 14:36	1	20SEP03MCAL-11. d	Gemini C18 50mm 3(mm)
ICB 410-40712/8		09/03/2020 14:46	1	20SEP03MCAL-12. d	Gemini C18 50mm 3(mm)
ICV 410-40712/9		09/03/2020 14:56	1	20SEP03MCAL-13. d	Gemini C18 50mm 3(mm)
WDM 410-40712/10		09/03/2020 15:05	1	20SEP03MCAL-14. d	Gemini C18 50mm 3(mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Instrument ID: 30731 Start Date: 09/04/2020 10:55

Analysis Batch Number: 41076 End Date: 09/04/2020 18:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 410-41076/4		09/04/2020 10:55	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 12:09	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 12:19	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 12:29	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 12:39	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 12:49	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 12:59	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 13:08	1		Gemini C18 50mm 3 (mm)
CCV 410-41076/22		09/04/2020 13:18	1	20SEP04-19.d	Gemini C18 50mm 3 (mm)
MB 410-40650/1-B		09/04/2020 13:28	1	20SEP04-20.d	Gemini C18 50mm 3 (mm)
LCS 410-40650/2-B		09/04/2020 13:38	1	20SEP04-21.d	Gemini C18 50mm 3 (mm)
LCSD 410-40650/3-B		09/04/2020 13:48	1	20SEP04-22.d	Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 13:58	1		Gemini C18 50mm 3 (mm)
CCV 410-41076/27		09/04/2020 14:07	1	20SEP04-24.d	Gemini C18 50mm 3 (mm)
MB 410-40676/1-A		09/04/2020 14:17	1	20SEP04-25.d	Gemini C18 50mm 3 (mm)
LCS 410-40676/2-A		09/04/2020 14:27	1	20SEP04-26.d	Gemini C18 50mm 3 (mm)
LCSD 410-40676/3-A		09/04/2020 14:37	1	20SEP04-27.d	Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 14:47	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 14:56	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 15:06	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 15:16	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 15:26	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 15:36	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 15:45	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 15:55	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 16:05	1		Gemini C18 50mm 3 (mm)
CCV 410-41076/50		09/04/2020 16:15	1	20SEP04-37.d	Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 16:25	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 16:34	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 16:44	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 16:54	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 17:04	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 17:14	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 17:24	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 17:34	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/04/2020 17:43	1		Gemini C18 50mm 3 (mm)
410-12790-1	1-Field Blank	09/04/2020 17:53	1	20SEP04-47.d	Gemini C18 50mm 3 (mm)
CCV 410-41076/51		09/04/2020 18:03	1	20SEP04-48.d	Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Instrument ID: 30731 Start Date: 09/08/2020 19:09

Analysis Batch Number: 41778 End Date: 09/08/2020 20:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 410-41778/1		09/08/2020 19:09	1	20SEP08MCAL-01. d	Gemini C18 50mm 3(mm)
IC 410-41778/2		09/08/2020 19:19	1	20SEP08MCAL-02. d	Gemini C18 50mm 3(mm)
IC 410-41778/3		09/08/2020 19:29	1	20SEP08MCAL-03. d	Gemini C18 50mm 3(mm)
IC 410-41778/4		09/08/2020 19:39	1	20SEP08MCAL-04. d	Gemini C18 50mm 3(mm)
ICISAV 410-41778/5		09/08/2020 19:48	1	20SEP08MCAL-05. d	Gemini C18 50mm 3(mm)
IC 410-41778/6		09/08/2020 19:58	1	20SEP08MCAL-06. d	Gemini C18 50mm 3(mm)
IC 410-41778/7		09/08/2020 20:08	1	20SEP08MCAL-07. d	Gemini C18 50mm 3(mm)
ICB 410-41778/8		09/08/2020 20:18	1	20SEP08MCAL-08. d	Gemini C18 50mm 3(mm)
ICV 410-41778/9		09/08/2020 20:28	1	20SEP08MCAL-09. d	Gemini C18 50mm 3(mm)
WDM 410-41778/10		09/08/2020 20:37	1	20SEP08MCAL-10. d	Gemini C18 50mm 3(mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Instrument ID: 30731 Start Date: 09/08/2020 21:38

Analysis Batch Number: 41807 End Date: 09/09/2020 06:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 410-41807/56		09/08/2020 21:38	1	20SEP08-03.d	Gemini C18 50mm 3 (mm)
ZZZZZ		09/08/2020 21:47	100		Gemini C18 50mm 3 (mm)
ZZZZZ		09/08/2020 21:57	100		Gemini C18 50mm 3 (mm)
410-12790-2	2-Anvil 10x10	09/08/2020 22:17	1	20SEP08-07.d	Gemini C18 50mm 3 (mm)
ZZZZZ		09/08/2020 22:37	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/08/2020 22:46	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/08/2020 22:56	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/08/2020 23:16	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/08/2020 23:26	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/08/2020 23:35	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/08/2020 23:45	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/08/2020 23:55	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 00:05	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 00:15	1		Gemini C18 50mm 3 (mm)
CCV 410-41807/88		09/09/2020 00:24	1	20SEP08-20.d	Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 00:34	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 00:44	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 00:54	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 01:04	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 01:13	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 01:23	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 01:33	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 01:43	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 01:53	1		Gemini C18 50mm 3 (mm)
CCV 410-41807/89		09/09/2020 02:02	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 02:12	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 02:22	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 02:32	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 02:42	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 02:51	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 03:01	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 03:11	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 03:21	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 03:41	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 03:50	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 04:00	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 04:10	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 04:20	1		Gemini C18 50mm 3 (mm)
CCV 410-41807/108		09/09/2020 04:30	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 04:40	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 04:49	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 04:59	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 05:09	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 05:19	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 05:29	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Instrument ID: 30731 Start Date: 09/08/2020 21:38

Analysis Batch Number: 41807 End Date: 09/09/2020 06:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		09/09/2020 05:38	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 05:48	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 05:58	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 06:08	1		Gemini C18 50mm 3 (mm)
CCV 410-41807/109		09/09/2020 06:18	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Instrument ID: 30731 Start Date: 09/09/2020 13:56

Analysis Batch Number: 42076 End Date: 09/10/2020 05:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 410-42076/1		09/09/2020 13:56	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 14:06	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 14:16	100		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 14:25	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 14:35	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 14:45	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 14:55	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 15:05	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 15:14	1		Gemini C18 50mm 3 (mm)
CCV 410-42076/10		09/09/2020 15:24	1	20SEP09-14.d	Gemini C18 50mm 3 (mm)
LCS 410-41621/2-B		09/09/2020 17:20	1	20SEP09-19.d	Gemini C18 50mm 3 (mm)
MB 410-41621/1-B		09/09/2020 17:29	1	20SEP09-20.d	Gemini C18 50mm 3 (mm)
LCSD 410-41621/3-B		09/09/2020 17:39	1	20SEP09-21.d	Gemini C18 50mm 3 (mm)
410-12790-2 RE	2-Anvil 10x10 RE	09/09/2020 17:49	1	20SEP09-22.d	Gemini C18 50mm 3 (mm)
CCV 410-42076/15		09/09/2020 17:59	1	20SEP09-23.d	Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 19:30	10		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 19:40	10		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 20:00	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 20:10	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 20:20	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 20:29	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 20:39	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 20:49	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 20:59	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 21:09	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 21:18	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 21:28	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 21:38	1		Gemini C18 50mm 3 (mm)
CCV 410-42076/38		09/09/2020 21:48	1		Gemini C18 50mm 3 (mm)
CCV 410-42076/70		09/09/2020 22:47	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 22:57	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 23:06	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 23:16	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 23:26	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 23:36	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 23:46	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/09/2020 23:56	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/10/2020 00:05	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/10/2020 00:25	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/10/2020 00:35	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/10/2020 00:45	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/10/2020 00:54	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/10/2020 01:04	1		Gemini C18 50mm 3 (mm)
CCV 410-42076/104		09/10/2020 01:14	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/10/2020 01:24	1		Gemini C18 50mm 3 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-12790-1

SDG No.: _____

Instrument ID: 30731 Start Date: 09/09/2020 13:56

Analysis Batch Number: 42076 End Date: 09/10/2020 05:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		09/10/2020 01:34	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/10/2020 01:43	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/10/2020 01:53	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/10/2020 02:03	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/10/2020 02:13	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/10/2020 02:23	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/10/2020 02:32	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/10/2020 02:42	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/10/2020 02:52	1		Gemini C18 50mm 3 (mm)
CCV 410-42076/105		09/10/2020 03:02	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/10/2020 03:12	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/10/2020 03:22	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/10/2020 03:31	1		Gemini C18 50mm 3 (mm)
ZZZZZ		09/10/2020 03:41	1		Gemini C18 50mm 3 (mm)
CCV 410-42076/106		09/10/2020 04:40	1		Gemini C18 50mm 3 (mm)
CCV 410-42076/111		09/10/2020 05:19	1		Gemini C18 50mm 3 (mm)

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-12790-1

SDG No.: _____

Batch Number: 40650 Batch Start Date: 09/03/20 10:16 Batch Analyst: Prince, Austin P

Batch Method: EPA 537 (Mod) Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_MS_MODWX 00024	PFC_SS_MODX 00033
MB 410-40650/1		EPA 537 (Mod), Extract Aliquot, 537 IDA		3.00 g	2.00 g	1 mL	20 mL		50 uL
LCS 410-40650/2		EPA 537 (Mod), Extract Aliquot, 537 IDA		3.00 g	2.00 g	1 mL	20 mL	40 uL	50 uL
LCSD 410-40650/3		EPA 537 (Mod), Extract Aliquot, 537 IDA		3.00 g	2.00 g	1 mL	20 mL	40 uL	50 uL
410-12790-A-2	2-Anvil 10x10	EPA 537 (Mod), Extract Aliquot, 537 IDA	T	3.00 g	2.00 g	1 mL	20 mL		50 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 410-40650/1		EPA 537 (Mod), Extract Aliquot, 537 IDA		Dispersion					
LCS 410-40650/2		EPA 537 (Mod), Extract Aliquot, 537 IDA		Dispersion					
LCSD 410-40650/3		EPA 537 (Mod), Extract Aliquot, 537 IDA		Dispersion					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-12790-1

SDG No.: _____

Batch Number: 40650 Batch Start Date: 09/03/20 10:16 Batch Analyst: Prince, Austin P

Batch Method: EPA 537 (Mod) Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
410-12790-A-2	2-Anvil 10x10	EPA 537 (Mod), Extract Aliquot, 537 IDA	T	Dispersion					

Batch Notes	
Balance ID	B629764122
Batch Comment	Dispersion
Collection Tube Witness	NF33365
H2O ID	House A372
Manifold ID	Dispersion
Methanol ID	DY532-US
Pipette/Syringe/Dispenser ID	R1
Analyst ID - IS Reagent Drop Witness	NF33365
Solvent Lot #	3093809032033A, 3093809032033C
Solvent Name	1:1 ACN:MEOH, 0.3% NH4OH:MEOH
SPE Cartridge Lot ID	6509790-02

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-12790-1

SDG No.: _____

Batch Number: 40652 Batch Start Date: 09/03/20 10:22 Batch Analyst: Prince, Austin P

Batch Method: Extract Aliquot Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	AnalysisComment			
MB 410-40650/1-A		Extract Aliquot, 537 IDA		10 mL	1 mL	Dispersions			
LCS 410-40650/2-A		Extract Aliquot, 537 IDA		10 mL	1 mL	Dispersions			
LCSD 410-40650/3-A		Extract Aliquot, 537 IDA		10 mL	1 mL	Dispersions			
410-12790-A-2-A	2-Anvil 10x10	Extract Aliquot, 537 IDA	T	10 mL	1 mL	Dispersions			

Batch Notes	
Batch Comment	Dispersions

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.



Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-40652

Analyst: Prince, Austin P

Batch Open: 9/3/2020 10:22:00AM

Method Code: 410-Extract_Aliquot-410

Batch End:

Preparation, Extract Aliquot

9/14 RUSH

Input Sample Lab ID (Analytical Method)	SDG (Job #)	Initial Amount	Final Amount	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1 MB-410-40650/1-A N/A	N/A	10 mL	1 mL	N/A	N/A	N/A	Dispersions	MB-410-40650/1-A-B
2 LCS-410-40650/2-A N/A	N/A	10 mL	1 mL	N/A	N/A	N/A	Dispersions	LCS-410-40650/2-B
3 LCSD-410-40650/3-A N/A	N/A	10 mL	1 mL	N/A	N/A	N/A	Dispersions	LCSD-410-40650/3-B
4 410-12790-A-2-A (PFC_IDA)	N/A	10 mL	1 mL	9/8/20	7_Day_Rush	2	Dispersions	410-12790-A-2-B

Batch Notes

Pipette/Syringe/Dispenser ID _____

Batch Comment Dispersions _____

Comments

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-40652

Analyst: Prince, Austin P

Batch Open: 9/3/2020 10:22:00AM

Method Code: 410-Extract_Aliquot-410

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness

Other Reagents:

Reagent

Amount/Units

Lot#:

Internal Standards

20 µL

PF-15-NOD-00041



Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Prince, Austin P

Batch Number: 410-40650

Batch Open: 9/3/2020 10:16:00AM

Method Code: 410-PFC_Disposition-410

Batch End:

Solid-Phase Extraction (SPE)

Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	InitAmt FinAmt	Rcvd	PHs		Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
					Adj1	Adj2					
1 MB~410-40650/1 N/A	N/A	3.00 g	1 mL				N/A	N/A	N/A	Dispersion	
		2.00 g	20 mL								
2 LCS~410-40650/2 N/A	N/A	3.00 g	1 mL				N/A	N/A	N/A	Dispersion	
		2.00 g	20 mL								
3 LCSD~410-40650/3 N/A	N/A	3.00 g	1 mL				N/A	N/A	N/A	Dispersion	
		2.00 g	20 mL								
4 410-12790-A-2 (PFC_IDA)	N/A (410-12790-1)	3.00 g	1 mL				9/3/20	7_Day_Rush	2	Dispersion	
		2.00 g	20 mL								

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Prince, Austin P

Batch Number: 410-40650

Batch Open: 9/3/2020 10:16:00AM

Method Code: 410-PFC_Disp_Prep-410

Batch End:

Batch Notes

pH Indicator ID	
Manifold ID	Dispersion
First Start time	
First End time	
SPE Cartridge Type	
SPE Cartridge Lot ID	6509790-02
SPE Disk Type	
Solid Phase Extraction Disk ID	
Balance ID	B629764122
Pipette/Syringe/Dispenser ID	R1
Na2SO4 ID	
Methanol ID	DY532-US
Hexane ID	
Sodium Hydroxide ID	
H2O ID	House A372
Solvent Name	1:1 ACN:MEOH, 0.3% NH4OH:MEOH
Solvent Lot #	3093809032033A, 3093809032033C
Rinse Solvent Name	
Rinse Solvent Lot	
Acid Name	
Acid ID	

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Prince, Austin P

Batch Number: 410-40650

Method Code: 410-PFC_Dispre-410

Batch Open: 9/3/2020 10:16:00AM

Batch End:

Analyst ID - Reagent Drop	
Analyst ID - IS Reagent Drop	
Analyst ID - IS Reagent Drop	NF33365
Witness	
Collection Tube Witness	NF33365
Batch Comment	Dispersion

Comments

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-12790-1

SDG No.: _____

Batch Number: 40676 Batch Start Date: 09/03/20 11:02 Batch Analyst: Farland, Nicholas

Batch Method: 537 IDA Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_MS_MODX 00024	PFC_SS_MODX 00033
MB 410-40676/1		537 IDA, 537 IDA		300 g	50 g	250 mL	1 mL		25 uL
LCS 410-40676/2		537 IDA, 537 IDA		300 g	50 g	250 mL	1 mL	40 uL	25 uL
LCSD 410-40676/3		537 IDA, 537 IDA		300 g	50 g	250 mL	1 mL	40 uL	25 uL
410-12790-A-1	1-Field Blank	537 IDA, 537 IDA	T	298.42 g	27.54 g	270.9 mL	1 mL		25 uL

Batch Notes	
Balance ID	B629764122
Collection Tube Witness	ABP 30938
H2O ID	House A-372
Manifold ID	9 & 10
Methanol ID	DZ176-US
Pipette/Syringe/Dispenser ID	R1
Analyst ID - IS Reagent Drop Witness	KM32607
Solvent Lot #	3336509022033A & 3336509022033C
Solvent Name	0.3%NH4OH:MeOH & 1:1 ACN in MeOH
SPE Cartridge Lot ID	6509790-02
First Start time	09/03/2020 11:02

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.



Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Farland, Nicholas

Batch Number: 410-40676

Method Code: 410-3535_PFC-410

Batch Open: 9/3/2020 11:02:00AM

Batch End:

RUSH 9114

R9919

Solid-Phase Extraction (SPE)

Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	InitAmt FinAmt	PHS		Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
				Rcvd	Adj1 Adj2					
1 MB-410-40676/1 N/A	N/A	300 g 50 g	250 mL 1 mL			N/A	N/A	N/A		MB-410-40676/1-A
2 LCS-410-40676/2 N/A	N/A	300 g 50 g	250 mL 1 mL			N/A	N/A	N/A		LCS-410-40676/2-A
3 LCSD-410-40676/3 N/A	N/A	300 g 50 g	250 mL 1 mL			N/A	N/A	N/A		LCSD-410-40676/3-A
4 410-12325-B-17 (PFC_IDA)	SMF (410-12325-1)	312.83 g 27.10 g	285.7 mL 1 mL			9/2/20	7_Days	4		410-12325-B-17-A
5 410-12671-A-1 (PFC_IDA)	N/A (410-12671-1)	44.32 g	25.1 mL			9/8/20	7_Days	2	Discolored, opaque, foamy. 25 mls were diluted using Milli-Q water in a clean QC bottle.	410-12671-A-1-A
6 410-12671-A-2 (PFC_IDA)	N/A (410-12671-1)	19.19 g	1 mL			9/8/20	7_Days	2		410-12671-A-2-A
7 410-12671-A-3 (PFC_IDA)	N/A (410-12671-1)	317.98 g 27.01 g	291 mL 1 mL			9/8/20	7_Days	2	Discolored, opaque, foamy. 25 mls were diluted using Milli-Q water in a clean QC bottle.	410-12671-A-3-A
8 410-12671-A-4 (PFC_IDA)	N/A (410-12671-1)	19.15 g 324.22 g 27.39 g	1 mL 296.8 mL 1 mL			9/8/20	7_Days	2	Discolored. Vacuum was applied.	410-12671-A-4-A

*W/Temp A 40°C, Avk 33176
Recons 2/12/20, 9/3/2020*

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Farland, Nicholas

Batch Number: 410-40676

Batch Open: 9/3/2020 11:02:00AM
Batch End:

Method Code: 410-3535_PFC-410

Sample ID	Weight (g)	Volume (mL)	Date	Days	Repeats	Notes
9 410-12671-A-5 (PFC_IDA)	45.04 g	25.7 mL	9/8/20	7_Days	2	Discolored, particulate, foamy. 25 mls were diluted using Mill-Q water in a clean QC bottle.
10 410-12671-A-6 (PFC_IDA)	326.54 g	299.5 mL	9/8/20	7_Days	2	Discolored, particulate. Vacuum was applied.
11 410-12710-A-1 N/A	332.32 g	304.9 mL	N/A	N/A	N/A	
12 410-12710-A-2 N/A	328.61 g	301.3 mL	N/A	N/A	N/A	
13 410-12729-A-1 (PFC_IDA)	310.87 g	283.3 mL	9/8/20	7_Days	2	
14 410-12730-A-1 (PFC_IDA)	322.79 g	296.3 mL	9/8/20	7_Days	2	
15 410-12732-A-1 (PFC_IDA)	328.97 g	301.3 mL	9/8/20	7_Days	2	
16 410-12733-A-1 (PFC_IDA)	317.15 g	289.9 mL	9/8/20	7_Days	2	
17 410-12734-A-1 (PFC_IDA)	335.66 g	308.6 mL	9/8/20	7_Days	2	Vacuum was applied.
18 410-12734-A-2 (PFC_IDA)	319.62 g	285 mL	9/8/20	7_Days	2	
19 410-12735-A-1 (PFC_IDA)	326.44 g	299.7 mL	9/8/20	7_Days	2	Vacuum was applied.

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)




Batch Number: 410-40676

Analyst: Farland, Nicholas

Method Code: 410-3535_PFC-410

Batch Open: 9/3/2020 11:02:00AM

Batch End:

20	410-12735-A-2 (PFC_IDA)	N/A (410-12735-1)	331.19 g	303.8 mL				9/8/20	7_Days	2	Vacuum was applied.	
			27.39 g	1 mL								
21	410-12737-A-1 (PFC_IDA)	N/A (410-12737-1)	304.34 g	277.5 mL				9/8/20	7_Days	2		
			26.833 g	1 mL								
22	410-12790-A-1 (PFC_IDA) ✓	N/A (410-12790-1)	298.42 g	270.9 mL				9/8/20	7_Day_Rush	2		
			27.54 g	1 mL								

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Farland, Nicholas

Batch Number: 410-40676

Method Code: 410-3535_PFC-410

Batch Oper: 9/3/2020 11:02:00AM

Batch End:

Batch Notes

pH Indicator ID	
Manifold ID	9 & 10
First Start time	09/03/2020 11:02
First End time	
SPE Cartridge Type	
SPE Cartridge Lot ID	6509790-02
SPE Disk Type	
Solid Phase Extraction Disk ID	
Balance ID	B629764122
Pipette/Syringe/Dispenser ID	R1
Na2SO4 ID	
Methanol ID	DZ176-US
Hexane ID	
Sodium Hydroxide ID	
H2O ID	House A-372
Solvent Name	0.3%NH4OH:MeOH & 1:1 ACN in MeOH
Solvent Lot #	3336509022033A & 3336509022033C
Rinse Solvent Name	
Rinse Solvent Lot	
Acid Name	
Acid ID	

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Farland, Nicholas

Batch Number: 410-40676

Method Code: 410-3535_PFC-410

Batch Open: 9/3/2020 11:02:00AM

Batch End:

Analyst ID - Reagent Drop	
Analyst ID - IS Reagent Drop	
Analyst ID - IS Reagent Drop	KM32607
Witness	
Collection Tube Witness	ABP 30938
Batch Comment	

Comments

410-12325-B-17	Rework Comments: RX- low SS
410-12671-A-1	Login Comments for Job 12671: Analyze samples out of Hold/Temp per client request
410-12671-A-2	Method Comments: If samples are out of Time/Temp, proceed with analysis per client request!
410-12671-A-3	Method Comments: If samples are out of Time/Temp, proceed with analysis per client request!
410-12671-A-4	Method Comments: If samples are out of Time/Temp, proceed with analysis per client request!
410-12671-A-5	Method Comments: If samples are out of Time/Temp, proceed with analysis per client request!
410-12671-A-6	Method Comments: If samples are out of Time/Temp, proceed with analysis per client request!

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Farland, Nicholas

Batch Open: 9/3/2020 11:02:00AM

Batch Number: 410-40676

Method Code: 410-3535_PFC-410

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 410-40676/1	PFC_SS_MODX_00033	25 uL	1 mL		
LCS 410-40676/2	PFC_MS_MODWX_00024	40 uL	1 mL		
LCS 410-40676/2	PFC_SS_MODX_00033	25 uL	1 mL		
LCSD 410-40676/3	PFC_MS_MODWX_00024	40 uL	1 mL		
LCSD 410-40676/3	PFC_SS_MODX_00033	25 uL	1 mL		
410-12325-B-17	PFC_SS_MODX_00033	25 uL	1 mL		
410-12671-A-1	PFC_SS_MODX_00033	25 uL	1 mL		
410-12671-A-2	PFC_SS_MODX_00033	25 uL	1 mL		
410-12671-A-3	PFC_SS_MODX_00033	25 uL	1 mL		
410-12671-A-4	PFC_SS_MODX_00033	25 uL	1 mL		
410-12671-A-5	PFC_SS_MODX_00033	25 uL	1 mL		
410-12671-A-6	PFC_SS_MODX_00033	25 uL	1 mL		
410-12710-A-1	PFC_SS_MODX_00033	25 uL	1 mL		
410-12710-A-2	PFC_SS_MODX_00033	25 uL	1 mL		
410-12729-A-1	PFC_SS_MODX_00033	25 uL	1 mL		
410-12730-A-1	PFC_SS_MODX_00033	25 uL	1 mL		
410-12732-A-1	PFC_SS_MODX_00033	25 uL	1 mL		
410-12733-A-1	PFC_SS_MODX_00033	25 uL	1 mL		

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-40676

Analyst: Farland, Nicholas

Batch Oper: 9/3/2020 11:02:00AM

Method Code: 410-3535_PFC-410

Batch End:

410-12734-A-1	PFC_SS_MODX_00033	25 uL	1 mL		
410-12734-A-2	PFC_SS_MODX_00033	25 uL	1 mL		
410-12735-A-1	PFC_SS_MODX_00033	25 uL	1 mL		
410-12735-A-2	PFC_SS_MODX_00033	25 uL	1 mL		
410-12737-A-1	PFC_SS_MODX_00033	25 uL	1 mL		
410-12790-A-1	PFC_SS_MODX_00033	25 uL	1 mL		

Reagent	Other Reagents:	Amount/Units	Lot#:
<i>Internal Standard</i>		<i>20 uL</i>	<i>PFC-SS-MOD-00033</i>

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-12790-1

SDG No.: _____

Batch Number: 41621 Batch Start Date: 09/08/20 10:16 Batch Analyst: Prince, Austin P

Batch Method: EPA 537 (Mod) Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	PFC_MS_MODWX 00024	PFC_SS_MODX 00033
MB 410-41621/1		EPA 537 (Mod), Extract Aliquot, 537 IDA		300 g	299 g	1 mL	20 mL		50 uL
LCS 410-41621/2		EPA 537 (Mod), Extract Aliquot, 537 IDA		300 g	299 g	1 mL	20 mL	40 uL	50 uL
LCSD 410-41621/3		EPA 537 (Mod), Extract Aliquot, 537 IDA		300 g	299 g	1 mL	20 mL	40 uL	50 uL
410-12790-B-2	2-Anvil 10x10	EPA 537 (Mod), Extract Aliquot, 537 IDA	T	300 g	299 g	1 mL	20 mL		50 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 410-41621/1		EPA 537 (Mod), Extract Aliquot, 537 IDA		Dispersion					
LCS 410-41621/2		EPA 537 (Mod), Extract Aliquot, 537 IDA		Dispersion					
LCSD 410-41621/3		EPA 537 (Mod), Extract Aliquot, 537 IDA		Dispersion					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-12790-1

SDG No.: _____

Batch Number: 41621 Batch Start Date: 09/08/20 10:16 Batch Analyst: Prince, Austin P

Batch Method: EPA 537 (Mod) Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
410-12790-B-2	2-Anvil 10x10	EPA 537 (Mod), Extract Aliquot, 537 IDA	T	Dispersion					

Batch Notes	
Balance ID	B629764122
Collection Tube Witness	NF33365
H2O ID	House A372
Manifold ID	Dispersion
Methanol ID	DY532-US
Pipette/Syringe/Dispenser ID	P10-1, R1
Analyst ID - IS Reagent Drop Witness	NF33365
Solvent Lot #	3093809032033C, 3093809032033A, 3093809042033A, 3093809032033C
Solvent Name	0.3% NH4OH:MEOH, 1:1 ACN:MEOH, Acetate Buffer, 5% MEOH:H2O
SPE Cartridge Lot ID	6551874-01

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-12790-1

SDG No.: _____

Batch Number: 41644 Batch Start Date: 09/08/20 11:07 Batch Analyst: Barnhart, Toby B

Batch Method: Extract Aliquot Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
MB 410-41621/1-A		Extract Aliquot, 537 IDA		10 mL	1 mL				
LCS 410-41621/2-A		Extract Aliquot, 537 IDA		10 mL	1 mL				
LCSD 410-41621/3-A		Extract Aliquot, 537 IDA		10 mL	1 mL				
410-12790-B-2-A	2-Anvil 10x10	Extract Aliquot, 537 IDA	T	10 mL	1 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.



Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-41644

Analyst: Barnhart, Toby B

Batch Open: 9

Method Code: 410-Extract_Aliquot-410

Batch End:

Preparation, Extract Aliquot

Input Sample Lab ID (Analytical Method)	SDG (Job #)	Initial Amount	Final Amount	Due Date	Analytical TAT	Div Rank	Comments	OR
1 MB~410-41621/1-A N/A	N/A	2 mL	1 mL	N/A	N/A	N/A		
2 LCS~410-41621/2-A N/A	N/A	2 mL	1 mL	N/A	N/A	N/A		
3 LCSD~410-41621/3-A N/A	N/A	2 mL	1 mL	N/A	N/A	N/A		
4 410-12790-B-2-A (PFC_IDA)	N/A (410-12790-1)	2 mL	1 mL	9/8/20	7_Day_Rush	3		

Batch Notes

Pipette/Syringe/Dispenser ID

Batch Comment

Comments

410-12790-B-2-A
Rework Comments: Blank contamination, Low LCS/LCSD

Reconsitituted: ABP3003 9-9-2020

Solid SW-846-3500 Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 410-41644

Analyst: Barnhart, Toby B

Batch Open: 9/8/2020 11:07:00AM

Method Code: 410-Extract_Aliquot-410

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness

Other Reagents:

Reagent	Amount/Units	Lot#:
Internal Standard	20 µL	PR-15-WOB-00042

Aqueous Extraction Analysis Sheet


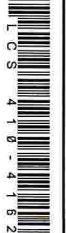

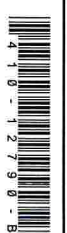
(To Accompany Samples to Instruments)

Analyst: Prince, Austin P

Batch Number: 410-41621
Method Code: 410-PFC_Disposition-Prep-410

Batch Oper: 9/8/2020 10:16
Batch End:

Solid-Phase Extraction (SPE)

Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	InitAmt FinAmt	PHS		Due Date	Analytical TAT	Div Rank	Comments	Output Sample La
				Rcvd	Adj1 Adj2					
1 MB-410-41621/1 N/A	N/A	300 g	1 mL			N/A	N/A	N/A	Dispersion	
		299 g	20 mL							
2 LCS-410-41621/2 N/A	N/A	300 g	1 mL			N/A	N/A	N/A	Dispersion	
		299 g	20 mL							
3 LCSD-410-41621/3 N/A	N/A	300 g	1 mL			N/A	N/A	N/A	Dispersion	
		299 g	20 mL							
4 410-12790-B-2 (PFC_IDA)	N/A (410-12790-1)	300 g	1 mL			9/3/20	7_Day_Rush	3	Dispersion	
		299 g	20 mL							

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Prince, Austin P

Batch Number: 410-41621

Method Code: 410-PFC_Disp_Prep-410

Batch Oper: 9/8/2020 10

Batch End:

Batch Notes

pH Indicator ID	
Manifold ID	Dispersion
First Start time	
First End time	
SPE Cartridge Type	
SPE Cartridge Lot ID	6551874-01
SPE Disk Type	
Solid Phase Extraction Disk ID	
Balance ID	B629764122
Pipette/Syringe/Dispenser ID	P10-1, R1
Na2SO4 ID	
Methanol ID	DY532-US
Hexane ID	
Sodium Hydroxide ID	
H2O ID	House A372
Solvent Name	0.3% NH4OH:MEOH, 1:1 ACN:MEOH, Acetate Buffer, 5% MEOH:H2O
Solvent Lot #	3093809032033C, 3093809032033A, 3093809042033A, 3093809032033C
Rinse Solvent Name	
Rinse Solvent Lot	
Acid Name	
Acid ID	

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Prince, Austin P

Batch Number: 410-41621

Batch Oper: 9/8/2020 10:16:00AM

Method Code: 410-PFC_Disposition-410

Batch End:

Analyst ID - Reagent Drop	
Analyst ID - IS Reagent Drop	
Analyst ID - IS Reagent Drop	NF33365
Witness	
Collection Tube Witness	NF33365
Batch Comment	

Comments

410-12790-B-2 Rework Comments: Blank contamination, Low LCS/LCSD

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Prince, Austin P

Batch Number: 410-41621

Method Code: 410-PFC_Disp_Prep-410

Batch Op

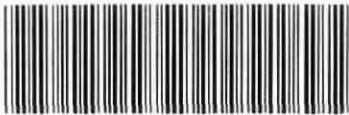
Batch E

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By
MB 410-41621/1	PFC_SS_MODX_00033	50 uL	20 mL	
LCS 410-41621/2	PFC_MS_MODWX_00024	40 uL	20 mL	
LCS 410-41621/2	PFC_SS_MODX_00033	50 uL	20 mL	
LCSD 410-41621/3	PFC_MS_MODWX_00024	40 uL	20 mL	
LCSD 410-41621/3	PFC_SS_MODX_00033	50 uL	20 mL	
410-12790-B-2	PFC_SS_MODX_00033	50 uL	20 mL	

Other Reagents:
Amount/Units

Shipping and Receiving Documents



Chain of Custody Record

410-12790 Chain of Custody

Deton Jeffries
301.500.4383

Lab PM
Izzo, Mary Kate
E-Mail
marykateizzo@eurofinsus.com

Carrier Tracking No(s)

COC No:
410-9293-2628.1
Page
Page 1 of 1
Job #

Client Informa
Client Contact:
Kyla Bennett

Company
PEER
Address
962 Wayne Avenue Suite 610
City
Silver Spring
State, Zip:
MD, 20910
Phone:
202-265-7337(Tel)
Email:
biojustus@comcast.net
Project Name:
Aquil 10-10 tests
Site:
Bethesda, MD

Due Date Requested:
ASAP
TAT Requested (days):
PO #:
Purchase Order not required
WO #:
Project #:
41001955
SSOW#:

Analysis Requested

Field Filtered Sample (Yes or No)	
Sample Matrix (Yes or No)	
PFC_IDA - Standard 32, plus 4 replacements	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Sample Matrix (Yes or No)	PFC_IDA - Standard 32, plus 4 replacements	Total Number of containers	Special Instructions/Note:
<i>1 - field blank water</i>	<i>9/1/20</i>	<i>11:00 AM</i>							
<i>1 (B) - field blank water</i>	<i>9/1/20</i>	<i>11:00 AM</i>							
<i>2 - Aquil 10x10</i>	<i>9/1/20</i>	<i>11:00 AM</i>							
<i>2 (B) - Aquil 10x10</i>	<i>9/1/20</i>	<i>11:00 AM</i>							

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For 1 Months

Deliverable Requested: I, II, III, IV, Other (specify) Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
<i>[Signature]</i>	<i>8/27/20</i>	<i>14:18</i>	
Relinquished by:	Date/Time:	Company:	Received by:
<i>[Signature]</i>			<i>[Signature]</i>
Relinquished by:	Date/Time:	Company:	Received by:
<i>[Signature]</i>			<i>[Signature]</i>

Custody Seals Intact: Yes No Custody Seal No.: Cooler Temperature(s) °C and Other Remarks: *18.8*

Login Sample Receipt Checklist

Client: PEER

Job Number: 410-12790-1

Login Number: 12790
List Number: 1
Creator: Jeremiah, Cory T

List Source: Eurofins Lancaster Laboratories Env

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	