

## ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC  
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Laboratory Job ID: 410-16652-1  
Client Project/Site: St Mary's

For:  
PEER  
962 Wayne Avenue  
Suite 610  
Silver Spring, Maryland 20910

Attn: Tim Whitehouse



Authorized for release by:  
10/29/2020 5:11:46 PM

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*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.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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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Mary Kate Izzo  
Project Manager  
10/29/2020 5:11:46 PM



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# Definitions/Glossary

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

## Qualifiers

### LCMS

Qualifier	Qualifier Description
*5	Isotope dilution analyte is outside acceptance limits.
I	Value is EMPC (estimated maximum possible concentration).
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

# Case Narrative

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

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## Job ID: 410-16652-1

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### Laboratory: Eurofins Lancaster Laboratories Env, LLC

#### Narrative

#### Job Narrative 410-16652-1

#### Receipt

The samples were received on 10/8/2020 5:02 PM; the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C

#### Receipt Exceptions

The following samples were received at the laboratory without a sample collection time documented on the chain of custody: Water QC - Duck Stin (410-16652-1), Water QC - Duck Stin (410-16652-2), Water St Inigoes Creek (410-16652-3), Fish Knife (410-16652-4), Crab Knife (410-16652-5), Field Blank (410-16652-6), Oyster (410-16652-8), Crab (410-16652-9) and Stripped Bass (410-16652-10). The client was contacted, and the laboratory was provided with a revised COC.

The Chain of Custody was received without any analyses selected. The client was contacted regarding this issue, and the laboratory was instructed to analyze for 36 PFAS compounds.

Limited volume received for these samples.

Fish Knife (410-16652-4), Crab Knife (410-16652-5), Field Blank (410-16652-6) and Oyster Shuck (410-16652-11)

#### LCMS

Method PFC\_IDA: The recovery for the labeled isotopes in the following sample: Water St Inigoes Creek (410-16652-3) are outside the QC acceptance limits. Sufficient sample was not available to re-extract this sample.

Method PFC\_IDA: Reporting limits were raised for the following samples: Fish Knife (410-16652-4), Crab Knife (410-16652-5), Field Blank (410-16652-6) and Oyster Shuck (410-16652-11). due to interference from the sample matrix.

Method PFC\_IDA: The recovery for target analyte 10:2 FTS is outside the QC acceptance limits in the closing continuing calibration verification standard. Since the result is high and target 10:2 FTS is not detected in the following samples: Oyster (410-16652-8), Crab (410-16652-9) and Stripped Bass (410-16652-10), the data is reported.

Method PFC\_IDA: The recovery for labeled isotope(s): d9-N-EtFOSE-M, d7-N-MeFOSE-M, d5-NEtFOSAA, d3-NMeFOSAA and M2-8:2 FTS are outside the QC acceptance limits in the closing continuing calibration verification standard. Since the recovery for the labeled isotope is within QC limits in the following sample(s): 410-16652-A-10-B, 410-16652-A-8-B, and 16652-A-9-B, the data is reported.

Method PFC\_IDA: The LCS/LCSD labeled isotope(s) recovery associated with samples: Oyster (410-16652-8), Crab (410-16652-9) and Stripped Bass (410-16652-10) is outside the QC acceptance limits. Since the recovery for target analytes is within the limits, the data is reported.

Method PFC\_IDA: The recovery for the labeled isotope(s) in the following sample: Crab (410-16652-9) is outside the QC acceptance limits. Since the recovery is high and the associated native analyte is not detected in the sample, the data is reported.

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: St Mary's

Job ID: 410-16652-1

## Client Sample ID: Water St Ingoes Creek

Lab Sample ID: 410-16652-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	2.0		1.8	0.44	ng/L	1		537 IDA	Total/NA
Perfluoroheptanoic acid	1.1	J	1.8	0.44	ng/L	1		537 IDA	Total/NA
Perfluorooctanoic acid	1.6	J	1.8	0.44	ng/L	1		537 IDA	Total/NA
Perfluorononanoic acid	0.80	J	1.8	0.44	ng/L	1		537 IDA	Total/NA
Perfluorobutanesulfonic acid	0.82	J	1.8	0.44	ng/L	1		537 IDA	Total/NA
Perfluorohexanesulfonic acid	0.73	J	1.8	0.44	ng/L	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	2.6		1.8	0.44	ng/L	1		537 IDA	Total/NA
Perfluorobutanoic acid	1.9	J	4.4	1.8	ng/L	1		537 IDA	Total/NA
Perfluoropentanoic acid	2.0		1.8	0.44	ng/L	1		537 IDA	Total/NA

## Client Sample ID: Fish Knife

Lab Sample ID: 410-16652-4

No Detections.

## Client Sample ID: Crab Knife

Lab Sample ID: 410-16652-5

No Detections.

## Client Sample ID: Field Blank

Lab Sample ID: 410-16652-6

No Detections.

## Client Sample ID: Oyster

Lab Sample ID: 410-16652-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorotridecanoic acid	0.27	J	0.60	0.20	ng/g	1		537 IDA	Total/NA
Perfluorotetradecanoic acid	0.21	J	0.60	0.20	ng/g	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	0.22	J	0.60	0.20	ng/g	1		537 IDA	Total/NA
Perfluorooctanesulfonamide	0.27	J	0.60	0.20	ng/g	1		537 IDA	Total/NA
Perfluoropentanoic acid	1.1		0.60	0.20	ng/g	1		537 IDA	Total/NA

## Client Sample ID: Crab

Lab Sample ID: 410-16652-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorodecanoic acid	0.20	J	0.55	0.18	ng/g	1		537 IDA	Total/NA
Perfluorotridecanoic acid	1.9		0.55	0.18	ng/g	1		537 IDA	Total/NA
Perfluorotetradecanoic acid	0.88		0.55	0.18	ng/g	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	1.2	I	0.55	0.18	ng/g	1		537 IDA	Total/NA
Perfluorodecanesulfonic acid	0.29	J	0.55	0.18	ng/g	1		537 IDA	Total/NA
Perfluorobutanoic acid	0.80	J	1.8	0.73	ng/g	1		537 IDA	Total/NA
Perfluorododecanoic acid	0.77		0.55	0.18	ng/g	1		537 IDA	Total/NA
Perfluoroundecanoic acid	0.61		0.55	0.18	ng/g	1		537 IDA	Total/NA

## Client Sample ID: Stripped Bass

Lab Sample ID: 410-16652-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorononanoic acid	0.37	J	0.55	0.18	ng/g	1		537 IDA	Total/NA
Perfluorodecanoic acid	1.6		0.55	0.18	ng/g	1		537 IDA	Total/NA
Perfluorotridecanoic acid	1.0		0.55	0.18	ng/g	1		537 IDA	Total/NA
Perfluorotetradecanoic acid	0.46	J	0.55	0.18	ng/g	1		537 IDA	Total/NA
Perfluorooctanesulfonic acid	15		0.55	0.18	ng/g	1		537 IDA	Total/NA
Perfluorodecanesulfonic acid	0.61		0.55	0.18	ng/g	1		537 IDA	Total/NA
Perfluorooctanesulfonamide	0.36	J	0.55	0.18	ng/g	1		537 IDA	Total/NA
Perfluorododecanoic acid	1.0		0.55	0.18	ng/g	1		537 IDA	Total/NA
Perfluoroundecanoic acid	2.7		0.55	0.18	ng/g	1		537 IDA	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

# Detection Summary

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

**Client Sample ID: Oyster Shuck**

**Lab Sample ID: 410-16652-11**

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

# Client Sample Results

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

**Client Sample ID: Water St Inigoes Creek**

**Lab Sample ID: 410-16652-3**

Date Collected: 10/07/20 16:00

Matrix: Water

Date Received: 10/08/20 17:02

**Method: 537 IDA - EPA 537 Isotope Dilution**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	2.0		1.8	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
Perfluoroheptanoic acid	1.1	J	1.8	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
Perfluorooctanoic acid	1.6	J	1.8	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
Perfluorononanoic acid	0.80	J	1.8	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
Perfluorodecanoic acid	ND		1.8	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
Perfluorotridecanoic acid	ND		1.8	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
Perfluorotetradecanoic acid	ND		1.8	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
Perfluorobutanesulfonic acid	0.82	J	1.8	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
Perfluorohexanesulfonic acid	0.73	J	1.8	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
Perfluorooctanesulfonic acid	2.6		1.8	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
NEtFOSAA	ND		2.7	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
NMeFOSAA	ND		1.8	0.53	ng/L		10/13/20 09:52	10/20/20 10:06	1
10:2 FTS	ND		4.4	0.89	ng/L		10/13/20 09:52	10/20/20 10:06	1
Perfluoropentanesulfonic acid	ND		1.8	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
Perfluoroheptanesulfonic acid	ND		1.8	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
Perfluorononanesulfonic acid	ND		1.8	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
Perfluorodecanesulfonic acid	ND		1.8	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.7	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
Perfluorooctanesulfonamide	ND		1.8	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
Perfluorohexadecanoic acid	ND		2.7	0.89	ng/L		10/13/20 09:52	10/20/20 10:06	1
Perfluorooctadecanoic acid	ND		2.7	0.89	ng/L		10/13/20 09:52	10/20/20 10:06	1
Perfluorobutanoic acid	1.9	J	4.4	1.8	ng/L		10/13/20 09:52	10/20/20 10:06	1
Perfluoropentanoic acid	2.0		1.8	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
NMeFOSE	ND		2.7	0.89	ng/L		10/13/20 09:52	10/20/20 10:06	1
NMeFOSA	ND		2.7	0.89	ng/L		10/13/20 09:52	10/20/20 10:06	1
NEtFOSE	ND		2.7	0.89	ng/L		10/13/20 09:52	10/20/20 10:06	1
NEtFOSA	ND		4.4	0.89	ng/L		10/13/20 09:52	10/20/20 10:06	1
HFPODA	ND		2.7	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
DONA	ND		1.8	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
9Cl-PF3ONS	ND		1.8	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
11Cl-PF3OUdS	ND		1.8	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
Perfluorododecanoic acid	ND		1.8	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
4:2 Fluorotelomer sulfonic acid	ND		1.8	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
Perfluoroundecanoic acid	ND		1.8	0.44	ng/L		10/13/20 09:52	10/20/20 10:06	1
6:2 Fluorotelomer sulfonic acid	ND		4.4	1.8	ng/L		10/13/20 09:52	10/20/20 10:06	1
8:2 Fluorotelomer sulfonic acid	ND		2.7	0.89	ng/L		10/13/20 09:52	10/20/20 10:06	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	138		20 - 187	10/13/20 09:52	10/20/20 10:06	1
M2-8:2 FTS	114		34 - 182	10/13/20 09:52	10/20/20 10:06	1
M2-6:2 FTS	132		29 - 189	10/13/20 09:52	10/20/20 10:06	1
13C5 PFHxA	76		31 - 142	10/13/20 09:52	10/20/20 10:06	1
13C4 PFHpA	79		30 - 144	10/13/20 09:52	10/20/20 10:06	1
13C8 PFOA	87		49 - 127	10/13/20 09:52	10/20/20 10:06	1
13C9 PFNA	102		47 - 136	10/13/20 09:52	10/20/20 10:06	1
13C6 PFDA	88		47 - 128	10/13/20 09:52	10/20/20 10:06	1
13C7 PFUnA	88		40 - 135	10/13/20 09:52	10/20/20 10:06	1
13C2-PFDoDA	83		28 - 136	10/13/20 09:52	10/20/20 10:06	1
13C2 PFTeDA	61		10 - 144	10/13/20 09:52	10/20/20 10:06	1



# Client Sample Results

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

**Client Sample ID: Water St Inigoes Creek**

**Lab Sample ID: 410-16652-3**

Date Collected: 10/07/20 16:00

Matrix: Water

Date Received: 10/08/20 17:02

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	131		19 - 178	10/13/20 09:52	10/20/20 10:06	1
13C3 PFHxS	73		32 - 145	10/13/20 09:52	10/20/20 10:06	1
13C8 PFOS	81		49 - 126	10/13/20 09:52	10/20/20 10:06	1
d3-NMeFOSAA	85		32 - 151	10/13/20 09:52	10/20/20 10:06	1
d5-NEtFOSAA	87		37 - 164	10/13/20 09:52	10/20/20 10:06	1
13C8 FOSA	51		10 - 143	10/13/20 09:52	10/20/20 10:06	1
13C4 PFBA	78		41 - 132	10/13/20 09:52	10/20/20 10:06	1
13C5 PFPeA	132		33 - 155	10/13/20 09:52	10/20/20 10:06	1
d7-N-MeFOSE-M	25		10 - 143	10/13/20 09:52	10/20/20 10:06	1
d3-NMePFOSA	5 *5		10 - 107	10/13/20 09:52	10/20/20 10:06	1
d9-N-EtFOSE-M	24		10 - 142	10/13/20 09:52	10/20/20 10:06	1
d5-NEtPFOSA	4 *5		10 - 108	10/13/20 09:52	10/20/20 10:06	1
13C3 HFPO-DA	68		20 - 153	10/13/20 09:52	10/20/20 10:06	1

**Client Sample ID: Fish Knife**

**Lab Sample ID: 410-16652-4**

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 17:02

**Method: 537 IDA - EPA 537 Isotope Dilution**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
Perfluoroheptanoic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
Perfluorooctanoic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
Perfluorononanoic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
Perfluorodecanoic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
Perfluorotridecanoic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
Perfluorotetradecanoic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
Perfluorobutanesulfonic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
Perfluorohexanesulfonic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
Perfluorooctanesulfonic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
NEtFOSAA	ND		8.8	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
NMeFOSAA	ND		5.9	1.8	ng/L		10/13/20 09:52	10/20/20 10:17	1
10:2 FTS	ND		15	2.9	ng/L		10/13/20 09:52	10/20/20 10:17	1
Perfluoropentanesulfonic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
Perfluoroheptanesulfonic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
Perfluorononanesulfonic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
Perfluorodecanesulfonic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
Perfluorododecanesulfonic acid (PFDoS)	ND		8.8	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
Perfluorooctanesulfonamide	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
Perfluorohexadecanoic acid	ND		8.8	2.9	ng/L		10/13/20 09:52	10/20/20 10:17	1
Perfluorooctadecanoic acid	ND		8.8	2.9	ng/L		10/13/20 09:52	10/20/20 10:17	1
Perfluorobutanoic acid	ND		15	5.9	ng/L		10/13/20 09:52	10/20/20 10:17	1
Perfluoropentanoic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
NMeFOSE	ND		8.8	2.9	ng/L		10/13/20 09:52	10/20/20 10:17	1
NMeFOSA	ND		8.8	2.9	ng/L		10/13/20 09:52	10/20/20 10:17	1
NEtFOSE	ND		8.8	2.9	ng/L		10/13/20 09:52	10/20/20 10:17	1
NEtFOSA	ND		15	2.9	ng/L		10/13/20 09:52	10/20/20 10:17	1
HFPODA	ND		8.8	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
DONA	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1

Eurofins Lancaster Laboratories Env, LLC

# Client Sample Results

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

**Client Sample ID: Fish Knife**

**Lab Sample ID: 410-16652-4**

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 17:02

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
9CI-PF3ONS	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
11CI-PF3OUdS	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
Perfluorododecanoic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
4:2 Fluorotelomer sulfonic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
Perfluoroundecanoic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:17	1
6:2 Fluorotelomer sulfonic acid	ND		15	5.9	ng/L		10/13/20 09:52	10/20/20 10:17	1
8:2 Fluorotelomer sulfonic acid	ND		8.8	2.9	ng/L		10/13/20 09:52	10/20/20 10:17	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	107		20 - 187	10/13/20 09:52	10/20/20 10:17	1
M2-8:2 FTS	115		34 - 182	10/13/20 09:52	10/20/20 10:17	1
M2-6:2 FTS	118		29 - 189	10/13/20 09:52	10/20/20 10:17	1
13C5 PFHxA	107		31 - 142	10/13/20 09:52	10/20/20 10:17	1
13C4 PFHpA	97		30 - 144	10/13/20 09:52	10/20/20 10:17	1
13C8 PFOA	106		49 - 127	10/13/20 09:52	10/20/20 10:17	1
13C9 PFNA	95		47 - 136	10/13/20 09:52	10/20/20 10:17	1
13C6 PFDA	95		47 - 128	10/13/20 09:52	10/20/20 10:17	1
13C7 PFUnA	104		40 - 135	10/13/20 09:52	10/20/20 10:17	1
13C2-PFDoDA	97		28 - 136	10/13/20 09:52	10/20/20 10:17	1
13C2 PFTeDA	92		10 - 144	10/13/20 09:52	10/20/20 10:17	1
13C3 PFBS	91		19 - 178	10/13/20 09:52	10/20/20 10:17	1
13C3 PFHxS	99		32 - 145	10/13/20 09:52	10/20/20 10:17	1
13C8 PFOS	88		49 - 126	10/13/20 09:52	10/20/20 10:17	1
d3-NMeFOSAA	107		32 - 151	10/13/20 09:52	10/20/20 10:17	1
d5-NEtFOSAA	112		37 - 164	10/13/20 09:52	10/20/20 10:17	1
13C8 FOSA	87		10 - 143	10/13/20 09:52	10/20/20 10:17	1
13C4 PFBA	98		41 - 132	10/13/20 09:52	10/20/20 10:17	1
13C5 PFPeA	100		33 - 155	10/13/20 09:52	10/20/20 10:17	1
d7-N-MeFOSE-M	78		10 - 143	10/13/20 09:52	10/20/20 10:17	1
d3-NMePFOSA	57		10 - 107	10/13/20 09:52	10/20/20 10:17	1
d9-N-EtFOSE-M	86		10 - 142	10/13/20 09:52	10/20/20 10:17	1
d5-NEtPFOSA	62		10 - 108	10/13/20 09:52	10/20/20 10:17	1
13C3 HFPO-DA	93		20 - 153	10/13/20 09:52	10/20/20 10:17	1

**Client Sample ID: Crab Knife**

**Lab Sample ID: 410-16652-5**

Date Collected: 10/07/20 15:00

Matrix: Water

Date Received: 10/08/20 17:02

**Method: 537 IDA - EPA 537 Isotope Dilution**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
Perfluoroheptanoic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
Perfluorooctanoic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
Perfluorononanoic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
Perfluorodecanoic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
Perfluorotridecanoic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
Perfluorotetradecanoic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
Perfluorobutanesulfonic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
Perfluorohexanesulfonic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
Perfluorooctanesulfonic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
NEtFOSAA	ND		8.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1

Eurofins Lancaster Laboratories Env, LLC

# Client Sample Results

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

**Client Sample ID: Crab Knife**

**Lab Sample ID: 410-16652-5**

Date Collected: 10/07/20 15:00

Matrix: Water

Date Received: 10/08/20 17:02

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMeFOSAA	ND		5.9	1.8	ng/L		10/13/20 09:52	10/20/20 10:27	1
10:2 FTS	ND		15	3.0	ng/L		10/13/20 09:52	10/20/20 10:27	1
Perfluoropentanesulfonic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
Perfluoroheptanesulfonic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
Perfluorononanesulfonic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
Perfluorodecanesulfonic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
Perfluorododecanesulfonic acid (PFDoS)	ND		8.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
Perfluorooctanesulfonamide	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
Perfluorohexadecanoic acid	ND		8.9	3.0	ng/L		10/13/20 09:52	10/20/20 10:27	1
Perfluorooctadecanoic acid	ND		8.9	3.0	ng/L		10/13/20 09:52	10/20/20 10:27	1
Perfluorobutanoic acid	ND		15	5.9	ng/L		10/13/20 09:52	10/20/20 10:27	1
Perfluoropentanoic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
NMeFOSE	ND		8.9	3.0	ng/L		10/13/20 09:52	10/20/20 10:27	1
NMeFOSA	ND		8.9	3.0	ng/L		10/13/20 09:52	10/20/20 10:27	1
NEtFOSE	ND		8.9	3.0	ng/L		10/13/20 09:52	10/20/20 10:27	1
NEtFOSA	ND		15	3.0	ng/L		10/13/20 09:52	10/20/20 10:27	1
HFPODA	ND		8.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
DONA	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
9Cl-PF3ONS	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
11Cl-PF3OUdS	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
Perfluorododecanoic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
4:2 Fluorotelomer sulfonic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
Perfluoroundecanoic acid	ND		5.9	1.5	ng/L		10/13/20 09:52	10/20/20 10:27	1
6:2 Fluorotelomer sulfonic acid	ND		15	5.9	ng/L		10/13/20 09:52	10/20/20 10:27	1
8:2 Fluorotelomer sulfonic acid	ND		8.9	3.0	ng/L		10/13/20 09:52	10/20/20 10:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	109		20 - 187	10/13/20 09:52	10/20/20 10:27	1
M2-8:2 FTS	111		34 - 182	10/13/20 09:52	10/20/20 10:27	1
M2-6:2 FTS	123		29 - 189	10/13/20 09:52	10/20/20 10:27	1
13C5 PFHxA	105		31 - 142	10/13/20 09:52	10/20/20 10:27	1
13C4 PFHpA	107		30 - 144	10/13/20 09:52	10/20/20 10:27	1
13C8 PFOA	111		49 - 127	10/13/20 09:52	10/20/20 10:27	1
13C9 PFNA	105		47 - 136	10/13/20 09:52	10/20/20 10:27	1
13C6 PFDA	100		47 - 128	10/13/20 09:52	10/20/20 10:27	1
13C7 PFUnA	104		40 - 135	10/13/20 09:52	10/20/20 10:27	1
13C2-PFDoDA	98		28 - 136	10/13/20 09:52	10/20/20 10:27	1
13C2 PFTeDA	93		10 - 144	10/13/20 09:52	10/20/20 10:27	1
13C3 PFBS	98		19 - 178	10/13/20 09:52	10/20/20 10:27	1
13C3 PFHxS	102		32 - 145	10/13/20 09:52	10/20/20 10:27	1
13C8 PFOS	93		49 - 126	10/13/20 09:52	10/20/20 10:27	1
d3-NMeFOSAA	111		32 - 151	10/13/20 09:52	10/20/20 10:27	1
d5-NEtFOSAA	116		37 - 164	10/13/20 09:52	10/20/20 10:27	1
13C8 FOSA	96		10 - 143	10/13/20 09:52	10/20/20 10:27	1
13C4 PFBA	104		41 - 132	10/13/20 09:52	10/20/20 10:27	1
13C5 PFPeA	107		33 - 155	10/13/20 09:52	10/20/20 10:27	1
d7-N-MeFOSE-M	85		10 - 143	10/13/20 09:52	10/20/20 10:27	1
d3-NMePFOSA	54		10 - 107	10/13/20 09:52	10/20/20 10:27	1
d9-N-EtFOSE-M	90		10 - 142	10/13/20 09:52	10/20/20 10:27	1

# Client Sample Results

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

## Client Sample ID: Crab Knife

Lab Sample ID: 410-16652-5

Date Collected: 10/07/20 15:00

Matrix: Water

Date Received: 10/08/20 17:02

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtPFOSA	57		10 - 108	10/13/20 09:52	10/20/20 10:27	1
13C3 HFPO-DA	98		20 - 153	10/13/20 09:52	10/20/20 10:27	1

## Client Sample ID: Field Blank

Lab Sample ID: 410-16652-6

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 17:02

### Method: 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		5.6	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
Perfluoroheptanoic acid	ND		5.6	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
Perfluorooctanoic acid	ND		5.6	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
Perfluorononanoic acid	ND		5.6	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
Perfluorodecanoic acid	ND		5.6	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
Perfluorotridecanoic acid	ND		5.6	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
Perfluorotetradecanoic acid	ND		5.6	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
Perfluorobutanesulfonic acid	ND		5.6	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
Perfluorohexanesulfonic acid	ND		5.6	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
Perfluorooctanesulfonic acid	ND		5.6	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
NEtFOSAA	ND		8.5	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
NMeFOSAA	ND		5.6	1.7	ng/L		10/13/20 09:52	10/20/20 10:38	1
10:2 FTS	ND		14	2.8	ng/L		10/13/20 09:52	10/20/20 10:38	1
Perfluoropentanesulfonic acid	ND		5.6	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
Perfluoroheptanesulfonic acid	ND		5.6	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
Perfluorononanesulfonic acid	ND		5.6	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
Perfluorodecanesulfonic acid	ND		5.6	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
Perfluorododecanesulfonic acid (PFDoS)	ND		8.5	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
Perfluorooctanesulfonamide	ND		5.6	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
Perfluorohexadecanoic acid	ND		8.5	2.8	ng/L		10/13/20 09:52	10/20/20 10:38	1
Perfluorooctadecanoic acid	ND		8.5	2.8	ng/L		10/13/20 09:52	10/20/20 10:38	1
Perfluorobutanoic acid	ND		14	5.6	ng/L		10/13/20 09:52	10/20/20 10:38	1
Perfluoropentanoic acid	ND		5.6	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
NMeFOSE	ND		8.5	2.8	ng/L		10/13/20 09:52	10/20/20 10:38	1
NMeFOSA	ND		8.5	2.8	ng/L		10/13/20 09:52	10/20/20 10:38	1
NEtFOSE	ND		8.5	2.8	ng/L		10/13/20 09:52	10/20/20 10:38	1
NEtFOSA	ND		14	2.8	ng/L		10/13/20 09:52	10/20/20 10:38	1
HFPODA	ND		8.5	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
DONA	ND		5.6	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
9CI-PF3ONS	ND		5.6	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
11CI-PF3OUdS	ND		5.6	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
Perfluorododecanoic acid	ND		5.6	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
4:2 Fluorotelomer sulfonic acid	ND		5.6	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
Perfluoroundecanoic acid	ND		5.6	1.4	ng/L		10/13/20 09:52	10/20/20 10:38	1
6:2 Fluorotelomer sulfonic acid	ND		14	5.6	ng/L		10/13/20 09:52	10/20/20 10:38	1
8:2 Fluorotelomer sulfonic acid	ND		8.5	2.8	ng/L		10/13/20 09:52	10/20/20 10:38	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
M2-4:2 FTS	106		20 - 187	10/13/20 09:52	10/20/20 10:38	1			
M2-8:2 FTS	120		34 - 182	10/13/20 09:52	10/20/20 10:38	1			
M2-6:2 FTS	120		29 - 189	10/13/20 09:52	10/20/20 10:38	1			

Eurofins Lancaster Laboratories Env, LLC

# Client Sample Results

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

**Client Sample ID: Field Blank**

**Lab Sample ID: 410-16652-6**

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 17:02

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	101		31 - 142	10/13/20 09:52	10/20/20 10:38	1
13C4 PFHpA	105		30 - 144	10/13/20 09:52	10/20/20 10:38	1
13C8 PFOA	110		49 - 127	10/13/20 09:52	10/20/20 10:38	1
13C9 PFNA	99		47 - 136	10/13/20 09:52	10/20/20 10:38	1
13C6 PFDA	101		47 - 128	10/13/20 09:52	10/20/20 10:38	1
13C7 PFUnA	107		40 - 135	10/13/20 09:52	10/20/20 10:38	1
13C2-PFDoDA	100		28 - 136	10/13/20 09:52	10/20/20 10:38	1
13C2 PFTeDA	95		10 - 144	10/13/20 09:52	10/20/20 10:38	1
13C3 PFBS	93		19 - 178	10/13/20 09:52	10/20/20 10:38	1
13C3 PFHxS	98		32 - 145	10/13/20 09:52	10/20/20 10:38	1
13C8 PFOS	96		49 - 126	10/13/20 09:52	10/20/20 10:38	1
d3-NMeFOSAA	112		32 - 151	10/13/20 09:52	10/20/20 10:38	1
d5-NEtFOSAA	118		37 - 164	10/13/20 09:52	10/20/20 10:38	1
13C8 FOSA	97		10 - 143	10/13/20 09:52	10/20/20 10:38	1
13C4 PFBA	99		41 - 132	10/13/20 09:52	10/20/20 10:38	1
13C5 PFPeA	102		33 - 155	10/13/20 09:52	10/20/20 10:38	1
d7-N-MeFOSE-M	90		10 - 143	10/13/20 09:52	10/20/20 10:38	1
d3-NMePFOSA	54		10 - 107	10/13/20 09:52	10/20/20 10:38	1
d9-N-EtFOSE-M	86		10 - 142	10/13/20 09:52	10/20/20 10:38	1
d5-NEtPFOSA	53		10 - 108	10/13/20 09:52	10/20/20 10:38	1
13C3 HFPO-DA	104		20 - 153	10/13/20 09:52	10/20/20 10:38	1

**Client Sample ID: Oyster**

**Lab Sample ID: 410-16652-8**

Date Collected: 10/07/20 15:30

Matrix: Solid

Date Received: 10/08/20 17:02

**Method: 537 IDA - EPA 537 Isotope Dilution**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
Perfluoroheptanoic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
Perfluorooctanoic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
Perfluorononanoic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
Perfluorodecanoic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
<b>Perfluorotridecanoic acid</b>	<b>0.27</b>	<b>J</b>	0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
<b>Perfluorotetradecanoic acid</b>	<b>0.21</b>	<b>J</b>	0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
Perfluorobutanesulfonic acid	ND		2.0	0.40	ng/g		10/12/20 08:46	10/12/20 21:49	1
Perfluorohexanesulfonic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
<b>Perfluorooctanesulfonic acid</b>	<b>0.22</b>	<b>J</b>	0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
NEtFOSAA	ND		2.0	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
NMeFOSAA	ND		2.0	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
10:2 FTS	ND		2.0	0.60	ng/g		10/12/20 08:46	10/12/20 21:49	1
Perfluoropentanesulfonic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
Perfluoroheptanesulfonic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
Perfluorononanesulfonic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
Perfluorodecanesulfonic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
<b>Perfluorooctanesulfonamide</b>	<b>0.27</b>	<b>J</b>	0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
Perfluorohexadecanoic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
Perfluorooctadecanoic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1

Eurofins Lancaster Laboratories Env, LLC

# Client Sample Results

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

**Client Sample ID: Oyster**

**Lab Sample ID: 410-16652-8**

Date Collected: 10/07/20 15:30

Matrix: Solid

Date Received: 10/08/20 17:02

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid	ND		2.0	0.80	ng/g		10/12/20 08:46	10/12/20 21:49	1
<b>Perfluoropentanoic acid</b>	<b>1.1</b>		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
NMeFOSE	ND		2.0	0.50	ng/g		10/12/20 08:46	10/12/20 21:49	1
NMeFOSA	ND		2.0	0.50	ng/g		10/12/20 08:46	10/12/20 21:49	1
NEtFOSE	ND		2.0	0.50	ng/g		10/12/20 08:46	10/12/20 21:49	1
NEtFOSA	ND		2.0	0.50	ng/g		10/12/20 08:46	10/12/20 21:49	1
HFPODA	ND		2.0	0.40	ng/g		10/12/20 08:46	10/12/20 21:49	1
DONA	ND		3.0	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
9CI-PF3ONS	ND		2.0	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
11CI-PF3OUdS	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
Perfluorododecanoic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
4:2 Fluorotelomer sulfonic acid	ND		2.0	0.60	ng/g		10/12/20 08:46	10/12/20 21:49	1
Perfluoroundecanoic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:49	1
6:2 Fluorotelomer sulfonic acid	ND		2.0	0.60	ng/g		10/12/20 08:46	10/12/20 21:49	1
8:2 Fluorotelomer sulfonic acid	ND		3.0	0.60	ng/g		10/12/20 08:46	10/12/20 21:49	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	77		10 - 169				10/12/20 08:46	10/12/20 21:49	1
M2-8:2 FTS	85		10 - 178				10/12/20 08:46	10/12/20 21:49	1
M2-6:2 FTS	83		10 - 182				10/12/20 08:46	10/12/20 21:49	1
13C5 PFHxA	76		11 - 138				10/12/20 08:46	10/12/20 21:49	1
13C4 PFHpA	73		15 - 139				10/12/20 08:46	10/12/20 21:49	1
13C8 PFOA	75		21 - 133				10/12/20 08:46	10/12/20 21:49	1
13C9 PFNA	80		15 - 145				10/12/20 08:46	10/12/20 21:49	1
13C6 PFDA	74		21 - 134				10/12/20 08:46	10/12/20 21:49	1
13C7 PFUnA	78		15 - 138				10/12/20 08:46	10/12/20 21:49	1
13C2-PFDoDA	77		28 - 126				10/12/20 08:46	10/12/20 21:49	1
13C2 PFTeDA	78		10 - 138				10/12/20 08:46	10/12/20 21:49	1
13C3 PFBS	70		23 - 130				10/12/20 08:46	10/12/20 21:49	1
13C3 PFHxS	73		24 - 136				10/12/20 08:46	10/12/20 21:49	1
13C8 PFOS	75		31 - 130				10/12/20 08:46	10/12/20 21:49	1
d3-NMeFOSAA	70		10 - 172				10/12/20 08:46	10/12/20 21:49	1
d5-NEtFOSAA	70		10 - 176				10/12/20 08:46	10/12/20 21:49	1
13C8 FOSA	58		25 - 135				10/12/20 08:46	10/12/20 21:49	1
13C4 PFBA	73		12 - 137				10/12/20 08:46	10/12/20 21:49	1
13C5 PFPeA	72		12 - 135				10/12/20 08:46	10/12/20 21:49	1
d7-N-MeFOSE-M	68		10 - 152				10/12/20 08:46	10/12/20 21:49	1
d3-NMePFOSA	62		10 - 148				10/12/20 08:46	10/12/20 21:49	1
d9-N-EtFOSE-M	70		10 - 157				10/12/20 08:46	10/12/20 21:49	1
d5-NEtPFOSA	66		10 - 151				10/12/20 08:46	10/12/20 21:49	1
13C3 HFPO-DA	66		10 - 152				10/12/20 08:46	10/12/20 21:49	1

**Client Sample ID: Crab**

**Lab Sample ID: 410-16652-9**

Date Collected: 10/07/20 15:30

Matrix: Solid

Date Received: 10/08/20 17:02

**Method: 537 IDA - EPA 537 Isotope Dilution**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
Perfluoroheptanoic acid	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
Perfluorooctanoic acid	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1

Eurofins Lancaster Laboratories Env, LLC

# Client Sample Results

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

**Client Sample ID: Crab**

**Lab Sample ID: 410-16652-9**

Date Collected: 10/07/20 15:30

Matrix: Solid

Date Received: 10/08/20 17:02

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorononanoic acid	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
<b>Perfluorodecanoic acid</b>	<b>0.20</b>	<b>J</b>	0.55	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
<b>Perfluorotridecanoic acid</b>	<b>1.9</b>		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
<b>Perfluorotetradecanoic acid</b>	<b>0.88</b>		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
Perfluorobutanesulfonic acid	ND		1.8	0.36	ng/g		10/12/20 08:46	10/12/20 21:59	1
Perfluorohexanesulfonic acid	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
<b>Perfluorooctanesulfonic acid</b>	<b>1.2</b>	<b>I</b>	0.55	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
NEtFOSAA	ND		1.8	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
NMeFOSAA	ND		1.8	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
10:2 FTS	ND		1.8	0.55	ng/g		10/12/20 08:46	10/12/20 21:59	1
Perfluoropentanesulfonic acid	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
Perfluoroheptanesulfonic acid	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
Perfluorononanesulfonic acid	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
<b>Perfluorodecanesulfonic acid</b>	<b>0.29</b>	<b>J</b>	0.55	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
Perfluorooctanesulfonamide	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
Perfluorohexadecanoic acid	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
Perfluorooctadecanoic acid	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
<b>Perfluorobutanoic acid</b>	<b>0.80</b>	<b>J</b>	1.8	0.73	ng/g		10/12/20 08:46	10/12/20 21:59	1
Perfluoropentanoic acid	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
NMeFOSE	ND		1.8	0.45	ng/g		10/12/20 08:46	10/12/20 21:59	1
NMeFOSA	ND		1.8	0.45	ng/g		10/12/20 08:46	10/12/20 21:59	1
NEtFOSE	ND		1.8	0.45	ng/g		10/12/20 08:46	10/12/20 21:59	1
NEtFOSA	ND		1.8	0.45	ng/g		10/12/20 08:46	10/12/20 21:59	1
HFPODA	ND		1.8	0.36	ng/g		10/12/20 08:46	10/12/20 21:59	1
DONA	ND		2.7	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
9Cl-PF3ONS	ND		1.8	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
11Cl-PF3OUdS	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
<b>Perfluorododecanoic acid</b>	<b>0.77</b>		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
4:2 Fluorotelomer sulfonic acid	ND		1.8	0.55	ng/g		10/12/20 08:46	10/12/20 21:59	1
<b>Perfluoroundecanoic acid</b>	<b>0.61</b>		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 21:59	1
6:2 Fluorotelomer sulfonic acid	ND		1.8	0.55	ng/g		10/12/20 08:46	10/12/20 21:59	1
8:2 Fluorotelomer sulfonic acid	ND		2.7	0.55	ng/g		10/12/20 08:46	10/12/20 21:59	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	119		10 - 169	10/12/20 08:46	10/12/20 21:59	1
M2-8:2 FTS	117		10 - 178	10/12/20 08:46	10/12/20 21:59	1
M2-6:2 FTS	105		10 - 182	10/12/20 08:46	10/12/20 21:59	1
13C5 PFHxA	86		11 - 138	10/12/20 08:46	10/12/20 21:59	1
13C4 PFHpA	29		15 - 139	10/12/20 08:46	10/12/20 21:59	1
13C8 PFOA	84		21 - 133	10/12/20 08:46	10/12/20 21:59	1
13C9 PFNA	91		15 - 145	10/12/20 08:46	10/12/20 21:59	1
13C6 PFDA	84		21 - 134	10/12/20 08:46	10/12/20 21:59	1
13C7 PFUnA	89		15 - 138	10/12/20 08:46	10/12/20 21:59	1
13C2-PFDoDA	86		28 - 126	10/12/20 08:46	10/12/20 21:59	1
13C2 PFTeDA	92		10 - 138	10/12/20 08:46	10/12/20 21:59	1
13C3 PFBS	161	*5	23 - 130	10/12/20 08:46	10/12/20 21:59	1
13C3 PFHxS	44		24 - 136	10/12/20 08:46	10/12/20 21:59	1
13C8 PFOS	86		31 - 130	10/12/20 08:46	10/12/20 21:59	1

# Client Sample Results

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

**Client Sample ID: Crab**

**Lab Sample ID: 410-16652-9**

Date Collected: 10/07/20 15:30

Matrix: Solid

Date Received: 10/08/20 17:02

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	82		10 - 172	10/12/20 08:46	10/12/20 21:59	1
d5-NEtFOSAA	93		10 - 176	10/12/20 08:46	10/12/20 21:59	1
13C8 FOSA	74		25 - 135	10/12/20 08:46	10/12/20 21:59	1
13C4 PFBA	81		12 - 137	10/12/20 08:46	10/12/20 21:59	1
13C5 PFPeA	141	*5	12 - 135	10/12/20 08:46	10/12/20 21:59	1
d7-N-MeFOSE-M	82		10 - 152	10/12/20 08:46	10/12/20 21:59	1
d3-NMePFOSA	74		10 - 148	10/12/20 08:46	10/12/20 21:59	1
d9-N-EtFOSE-M	86		10 - 157	10/12/20 08:46	10/12/20 21:59	1
d5-NEtPFOSA	73		10 - 151	10/12/20 08:46	10/12/20 21:59	1
13C3 HFPO-DA	70		10 - 152	10/12/20 08:46	10/12/20 21:59	1

**Client Sample ID: Stripped Bass**

**Lab Sample ID: 410-16652-10**

Date Collected: 10/07/20 15:00

Matrix: Solid

Date Received: 10/08/20 17:02

**Method: 537 IDA - EPA 537 Isotope Dilution**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
Perfluoroheptanoic acid	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
Perfluorooctanoic acid	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
<b>Perfluorononanoic acid</b>	<b>0.37</b>	<b>J</b>	0.55	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
<b>Perfluorodecanoic acid</b>	<b>1.6</b>		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
<b>Perfluorotridecanoic acid</b>	<b>1.0</b>		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
<b>Perfluorotetradecanoic acid</b>	<b>0.46</b>	<b>J</b>	0.55	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
Perfluorobutanesulfonic acid	ND		1.8	0.37	ng/g		10/12/20 08:46	10/12/20 22:09	1
Perfluorohexanesulfonic acid	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
<b>Perfluorooctanesulfonic acid</b>	<b>15</b>		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
NEtFOSAA	ND		1.8	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
NMeFOSAA	ND		1.8	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
10:2 FTS	ND		1.8	0.55	ng/g		10/12/20 08:46	10/12/20 22:09	1
Perfluoropentanesulfonic acid	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
Perfluoroheptanesulfonic acid	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
Perfluorononanesulfonic acid	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
<b>Perfluorodecanesulfonic acid</b>	<b>0.61</b>		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
Perfluorododecanesulfonic acid (PFDoS)	ND		1.8	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
<b>Perfluorooctanesulfonamide</b>	<b>0.36</b>	<b>J</b>	0.55	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
Perfluorohexadecanoic acid	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
Perfluorooctadecanoic acid	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
Perfluorobutanoic acid	ND		1.8	0.73	ng/g		10/12/20 08:46	10/12/20 22:09	1
Perfluoropentanoic acid	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
NMeFOSE	ND		1.8	0.46	ng/g		10/12/20 08:46	10/12/20 22:09	1
NMeFOSA	ND		1.8	0.46	ng/g		10/12/20 08:46	10/12/20 22:09	1
NEtFOSE	ND		1.8	0.46	ng/g		10/12/20 08:46	10/12/20 22:09	1
NEtFOSA	ND		1.8	0.46	ng/g		10/12/20 08:46	10/12/20 22:09	1
HFPODA	ND		1.8	0.37	ng/g		10/12/20 08:46	10/12/20 22:09	1
DONA	ND		2.8	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
9Cl-PF3ONS	ND		1.8	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
11Cl-PF3OUdS	ND		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
<b>Perfluorododecanoic acid</b>	<b>1.0</b>		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1

Eurofins Lancaster Laboratories Env, LLC



# Client Sample Results

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

**Client Sample ID: Stripped Bass**

**Lab Sample ID: 410-16652-10**

Date Collected: 10/07/20 15:00

Matrix: Solid

Date Received: 10/08/20 17:02

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4:2 Fluorotelomer sulfonic acid	ND		1.8	0.55	ng/g		10/12/20 08:46	10/12/20 22:09	1
<b>Perfluoroundecanoic acid</b>	<b>2.7</b>		0.55	0.18	ng/g		10/12/20 08:46	10/12/20 22:09	1
6:2 Fluorotelomer sulfonic acid	ND		1.8	0.55	ng/g		10/12/20 08:46	10/12/20 22:09	1
8:2 Fluorotelomer sulfonic acid	ND		2.8	0.55	ng/g		10/12/20 08:46	10/12/20 22:09	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
M2-4:2 FTS	94		10 - 169				10/12/20 08:46	10/12/20 22:09	1
M2-8:2 FTS	126		10 - 178				10/12/20 08:46	10/12/20 22:09	1
M2-6:2 FTS	97		10 - 182				10/12/20 08:46	10/12/20 22:09	1
13C5 PFHxA	84		11 - 138				10/12/20 08:46	10/12/20 22:09	1
13C4 PFHpA	83		15 - 139				10/12/20 08:46	10/12/20 22:09	1
13C8 PFOA	80		21 - 133				10/12/20 08:46	10/12/20 22:09	1
13C9 PFNA	86		15 - 145				10/12/20 08:46	10/12/20 22:09	1
13C6 PFDA	77		21 - 134				10/12/20 08:46	10/12/20 22:09	1
13C7 PFUnA	81		15 - 138				10/12/20 08:46	10/12/20 22:09	1
13C2-PFDoDA	73		28 - 126				10/12/20 08:46	10/12/20 22:09	1
13C2 PFTeDA	69		10 - 138				10/12/20 08:46	10/12/20 22:09	1
13C3 PFBS	80		23 - 130				10/12/20 08:46	10/12/20 22:09	1
13C3 PFHxS	79		24 - 136				10/12/20 08:46	10/12/20 22:09	1
13C8 PFOS	80		31 - 130				10/12/20 08:46	10/12/20 22:09	1
d3-NMeFOSAA	96		10 - 172				10/12/20 08:46	10/12/20 22:09	1
d5-NEtFOSAA	123		10 - 176				10/12/20 08:46	10/12/20 22:09	1
13C8 FOSA	67		25 - 135				10/12/20 08:46	10/12/20 22:09	1
13C4 PFBA	81		12 - 137				10/12/20 08:46	10/12/20 22:09	1
13C5 PFPeA	81		12 - 135				10/12/20 08:46	10/12/20 22:09	1
d7-N-MeFOSE-M	89		10 - 152				10/12/20 08:46	10/12/20 22:09	1
d3-NMePFOSA	60		10 - 148				10/12/20 08:46	10/12/20 22:09	1
d9-N-EtFOSE-M	85		10 - 157				10/12/20 08:46	10/12/20 22:09	1
d5-NEtPFOSA	49		10 - 151				10/12/20 08:46	10/12/20 22:09	1
13C3 HFPO-DA	70		10 - 152				10/12/20 08:46	10/12/20 22:09	1

**Client Sample ID: Oyster Shuck**

**Lab Sample ID: 410-16652-11**

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 17:02

**Method: 537 IDA - EPA 537 Isotope Dilution**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	ND		4.5	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
Perfluoroheptanoic acid	ND		4.5	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
Perfluorooctanoic acid	ND		4.5	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
Perfluorononanoic acid	ND		4.5	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
Perfluorodecanoic acid	ND		4.5	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
Perfluorotridecanoic acid	ND		4.5	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
Perfluorotetradecanoic acid	ND		4.5	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
Perfluorobutanesulfonic acid	ND		4.5	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
Perfluorohexanesulfonic acid	ND		4.5	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
Perfluorooctanesulfonic acid	ND		4.5	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
NEtFOSAA	ND		6.8	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
NMeFOSAA	ND		4.5	1.4	ng/L		10/13/20 09:52	10/21/20 07:05	1
10:2 FTS	ND		11	2.3	ng/L		10/13/20 09:52	10/21/20 07:05	1
Perfluoropentanesulfonic acid	ND		4.5	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1

Euofins Lancaster Laboratories Env, LLC

# Client Sample Results

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

**Client Sample ID: Oyster Shuck**

**Lab Sample ID: 410-16652-11**

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 17:02

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid	ND		4.5	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
Perfluorononanesulfonic acid	ND		4.5	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
Perfluorodecanesulfonic acid	ND		4.5	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
Perfluorododecanesulfonic acid (PFDoS)	ND		6.8	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
Perfluorooctanesulfonamide	ND		4.5	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
Perfluorohexadecanoic acid	ND		6.8	2.3	ng/L		10/13/20 09:52	10/21/20 07:05	1
Perfluorooctadecanoic acid	ND		6.8	2.3	ng/L		10/13/20 09:52	10/21/20 07:05	1
Perfluorobutanoic acid	ND		11	4.5	ng/L		10/13/20 09:52	10/21/20 07:05	1
Perfluoropentanoic acid	ND		4.5	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
NMeFOSE	ND		6.8	2.3	ng/L		10/13/20 09:52	10/21/20 07:05	1
NMeFOSA	ND		6.8	2.3	ng/L		10/13/20 09:52	10/21/20 07:05	1
NEtFOSE	ND		6.8	2.3	ng/L		10/13/20 09:52	10/21/20 07:05	1
NEtFOSA	ND		11	2.3	ng/L		10/13/20 09:52	10/21/20 07:05	1
HFPODA	ND		6.8	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
DONA	ND		4.5	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
9Cl-PF3ONS	ND		4.5	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
11Cl-PF3OUdS	ND		4.5	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
Perfluorododecanoic acid	ND		4.5	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
4:2 Fluorotelomer sulfonic acid	ND		4.5	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
Perfluoroundecanoic acid	ND		4.5	1.1	ng/L		10/13/20 09:52	10/21/20 07:05	1
6:2 Fluorotelomer sulfonic acid	ND		11	4.5	ng/L		10/13/20 09:52	10/21/20 07:05	1
8:2 Fluorotelomer sulfonic acid	ND		6.8	2.3	ng/L		10/13/20 09:52	10/21/20 07:05	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-4:2 FTS	100		20 - 187	10/13/20 09:52	10/21/20 07:05	1
M2-8:2 FTS	103		34 - 182	10/13/20 09:52	10/21/20 07:05	1
M2-6:2 FTS	111		29 - 189	10/13/20 09:52	10/21/20 07:05	1
13C5 PFHxA	98		31 - 142	10/13/20 09:52	10/21/20 07:05	1
13C4 PFHpA	98		30 - 144	10/13/20 09:52	10/21/20 07:05	1
13C8 PFOA	99		49 - 127	10/13/20 09:52	10/21/20 07:05	1
13C9 PFNA	95		47 - 136	10/13/20 09:52	10/21/20 07:05	1
13C6 PFDA	92		47 - 128	10/13/20 09:52	10/21/20 07:05	1
13C7 PFUnA	108		40 - 135	10/13/20 09:52	10/21/20 07:05	1
13C2-PFDoDA	98		28 - 136	10/13/20 09:52	10/21/20 07:05	1
13C2 PFTeDA	85		10 - 144	10/13/20 09:52	10/21/20 07:05	1
13C3 PFBS	89		19 - 178	10/13/20 09:52	10/21/20 07:05	1
13C3 PFHxS	96		32 - 145	10/13/20 09:52	10/21/20 07:05	1
13C8 PFOS	90		49 - 126	10/13/20 09:52	10/21/20 07:05	1
d3-NMeFOSAA	108		32 - 151	10/13/20 09:52	10/21/20 07:05	1
d5-NEtFOSAA	123		37 - 164	10/13/20 09:52	10/21/20 07:05	1
13C8 FOSA	92		10 - 143	10/13/20 09:52	10/21/20 07:05	1
13C4 PFBA	96		41 - 132	10/13/20 09:52	10/21/20 07:05	1
13C5 PFPeA	101		33 - 155	10/13/20 09:52	10/21/20 07:05	1
d7-N-MeFOSE-M	82		10 - 143	10/13/20 09:52	10/21/20 07:05	1
d3-NMePFOSA	55		10 - 107	10/13/20 09:52	10/21/20 07:05	1
d9-N-EtFOSE-M	80		10 - 142	10/13/20 09:52	10/21/20 07:05	1
d5-NEtPFOSA	54		10 - 108	10/13/20 09:52	10/21/20 07:05	1
13C3 HFPO-DA	94		20 - 153	10/13/20 09:52	10/21/20 07:05	1

# Isotope Dilution Summary

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

## Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M242FTS (10-169)	M282FTS (10-178)	M262FTS (10-182)	13C5PHA (11-138)	C4PFHA (15-139)	C8PFOA (21-133)	C9PFNA (15-145)	C6PFDA (21-134)
410-16652-8	Oyster	77	85	83	76	73	75	80	74
410-16652-9	Crab	119	117	105	86	29	84	91	84
410-16652-10	Stripped Bass	94	126	97	84	83	80	86	77
LCS 410-53181/2-B	Lab Control Sample	76	76	76	77	75	79	83	79
LCSD 410-53181/3-B	Lab Control Sample Dup	158	147	159	156 *5	161 *5	151 *5	161 *5	152 *5
MB 410-53181/1-B	Method Blank	79	89	87	83	78	81	93	89

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	13C7PUA (15-138)	PFDODA (28-126)	PFTDA (10-138)	C3PFBS (23-130)	C3PFHS (24-136)	C8PFOS (31-130)	d3NMFOS (10-172)	d5NEFOS (10-176)
410-16652-8	Oyster	78	77	78	70	73	75	70	70
410-16652-9	Crab	89	86	92	161 *5	44	86	82	93
410-16652-10	Stripped Bass	81	73	69	80	79	80	96	123
LCS 410-53181/2-B	Lab Control Sample	78	76	76	70	71	78	76	77
LCSD 410-53181/3-B	Lab Control Sample Dup	151 *5	153 *5	149 *5	139 *5	154 *5	149 *5	151	151
MB 410-53181/1-B	Method Blank	91	89	85	76	71	84	86	89

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (25-135)	PFBA (12-137)	PFPeA (12-135)	NMFM (10-152)	d3NMFSA (10-148)	NEFM (10-157)	d5NPFSA (10-151)	HFPODA (10-152)
410-16652-8	Oyster	58	73	72	68	62	70	66	66
410-16652-9	Crab	74	81	141 *5	82	74	86	73	70
410-16652-10	Stripped Bass	67	81	81	89	60	85	49	70
LCS 410-53181/2-B	Lab Control Sample	69	76	76	82	73	81	73	66
LCSD 410-53181/3-B	Lab Control Sample Dup	139 *5	151 *5	150 *5	157 *5	141	158 *5	145	142
MB 410-53181/1-B	Method Blank	77	84	83	87	68	85	73	75

### 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  
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

# Isotope Dilution Summary

Client: PEER  
 Project/Site: St Mary's  
 HFPODA = 13C3 HFPO-DA

Job ID: 410-16652-1

## 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)
410-16652-3	Water St Inigoes Creek	138	114	132	76	79	87	102	88
410-16652-4	Fish Knife	107	115	118	107	97	106	95	95
410-16652-5	Crab Knife	109	111	123	105	107	111	105	100
410-16652-6	Field Blank	106	120	120	101	105	110	99	101
410-16652-11	Oyster Shuck	100	103	111	98	98	99	95	92
LCS 410-53739/2-A	Lab Control Sample	101	101	113	108	102	108	104	98
LCSD 410-53739/3-A	Lab Control Sample Dup	101	108	114	103	103	108	105	100
MB 410-53739/1-A	Method Blank	108	108	121	105	108	110	105	101

### 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)
410-16652-3	Water St Inigoes Creek	88	83	61	131	73	81	85	87
410-16652-4	Fish Knife	104	97	92	91	99	88	107	112
410-16652-5	Crab Knife	104	98	93	98	102	93	111	116
410-16652-6	Field Blank	107	100	95	93	98	96	112	118
410-16652-11	Oyster Shuck	108	98	85	89	96	90	108	123
LCS 410-53739/2-A	Lab Control Sample	97	98	93	97	98	94	120	109
LCSD 410-53739/3-A	Lab Control Sample Dup	104	101	86	99	100	100	111	112
MB 410-53739/1-A	Method Blank	101	93	91	96	100	98	108	109

### 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)
410-16652-3	Water St Inigoes Creek	51	78	132	25	5 *5	24	4 *5	68
410-16652-4	Fish Knife	87	98	100	78	57	86	62	93
410-16652-5	Crab Knife	96	104	107	85	54	90	57	98
410-16652-6	Field Blank	97	99	102	90	54	86	53	104
410-16652-11	Oyster Shuck	92	96	101	82	55	80	54	94
LCS 410-53739/2-A	Lab Control Sample	95	104	108	82	66	85	63	93
LCSD 410-53739/3-A	Lab Control Sample Dup	95	102	107	83	53	82	52	99
MB 410-53739/1-A	Method Blank	93	99	101	83	55	82	60	94

#### 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
- 13C7PUA = 13C7 PFUnA
- PFDODA = 13C2-PFDODA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- C3PFHS = 13C3 PFHxS
- C8PFOS = 13C8 PFOS
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA

# Isotope Dilution Summary

Job ID: 410-16652-1

Client: PEER

Project/Site: St Mary's

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

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# QC Sample Results

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

## Method: 537 IDA - EPA 537 Isotope Dilution

**Lab Sample ID: MB 410-53181/1-B**  
**Matrix: Solid**  
**Analysis Batch: 53328**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 53181**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanoic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
Perfluoroheptanoic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
Perfluorooctanoic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
Perfluorononanoic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
Perfluorodecanoic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
Perfluorotridecanoic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
Perfluorotetradecanoic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
Perfluorobutanesulfonic acid	ND		2.0	0.40	ng/g		10/12/20 08:46	10/12/20 21:20	1
Perfluorohexanesulfonic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
Perfluorooctanesulfonic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
NEtFOSAA	ND		2.0	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
NMeFOSAA	ND		2.0	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
10:2 FTS	ND		2.0	0.60	ng/g		10/12/20 08:46	10/12/20 21:20	1
Perfluoropentanesulfonic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
Perfluoroheptanesulfonic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
Perfluorononanesulfonic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
Perfluorodecanesulfonic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
Perfluorododecanesulfonic acid (PFDoS)	ND		2.0	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
Perfluorooctanesulfonamide	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
Perfluorohexadecanoic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
Perfluorooctadecanoic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
Perfluorobutanoic acid	ND		2.0	0.80	ng/g		10/12/20 08:46	10/12/20 21:20	1
Perfluoropentanoic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
NMeFOSE	ND		2.0	0.50	ng/g		10/12/20 08:46	10/12/20 21:20	1
NMeFOSA	ND		2.0	0.50	ng/g		10/12/20 08:46	10/12/20 21:20	1
NEtFOSE	ND		2.0	0.50	ng/g		10/12/20 08:46	10/12/20 21:20	1
NEtFOSA	ND		2.0	0.50	ng/g		10/12/20 08:46	10/12/20 21:20	1
HFPODA	ND		2.0	0.40	ng/g		10/12/20 08:46	10/12/20 21:20	1
DONA	ND		3.0	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
9CI-PF3ONS	ND		2.0	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
11CI-PF3OUdS	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
Perfluorododecanoic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
4:2 Fluorotelomer sulfonic acid	ND		2.0	0.60	ng/g		10/12/20 08:46	10/12/20 21:20	1
Perfluoroundecanoic acid	ND		0.60	0.20	ng/g		10/12/20 08:46	10/12/20 21:20	1
6:2 Fluorotelomer sulfonic acid	ND		2.0	0.60	ng/g		10/12/20 08:46	10/12/20 21:20	1
8:2 Fluorotelomer sulfonic acid	ND		3.0	0.60	ng/g		10/12/20 08:46	10/12/20 21:20	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
M2-4:2 FTS	79		10 - 169	10/12/20 08:46	10/12/20 21:20	1
M2-8:2 FTS	89		10 - 178	10/12/20 08:46	10/12/20 21:20	1
M2-6:2 FTS	87		10 - 182	10/12/20 08:46	10/12/20 21:20	1
13C5 PFHxA	83		11 - 138	10/12/20 08:46	10/12/20 21:20	1
13C4 PFHpA	78		15 - 139	10/12/20 08:46	10/12/20 21:20	1
13C8 PFOA	81		21 - 133	10/12/20 08:46	10/12/20 21:20	1
13C9 PFNA	93		15 - 145	10/12/20 08:46	10/12/20 21:20	1
13C6 PFDA	89		21 - 134	10/12/20 08:46	10/12/20 21:20	1
13C7 PFUnA	91		15 - 138	10/12/20 08:46	10/12/20 21:20	1
13C2-PFDoDA	89		28 - 126	10/12/20 08:46	10/12/20 21:20	1

Eurofins Lancaster Laboratories Env, LLC

# QC Sample Results

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

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

**Lab Sample ID: MB 410-53181/1-B**  
**Matrix: Solid**  
**Analysis Batch: 53328**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 53181**

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFTeDA	85		10 - 138	10/12/20 08:46	10/12/20 21:20	1
13C3 PFBS	76		23 - 130	10/12/20 08:46	10/12/20 21:20	1
13C3 PFHxS	71		24 - 136	10/12/20 08:46	10/12/20 21:20	1
13C8 PFOS	84		31 - 130	10/12/20 08:46	10/12/20 21:20	1
d3-NMeFOSAA	86		10 - 172	10/12/20 08:46	10/12/20 21:20	1
d5-NEtFOSAA	89		10 - 176	10/12/20 08:46	10/12/20 21:20	1
13C8 FOSA	77		25 - 135	10/12/20 08:46	10/12/20 21:20	1
13C4 PFBA	84		12 - 137	10/12/20 08:46	10/12/20 21:20	1
13C5 PFPeA	83		12 - 135	10/12/20 08:46	10/12/20 21:20	1
d7-N-MeFOSE-M	87		10 - 152	10/12/20 08:46	10/12/20 21:20	1
d3-NMePFOSA	68		10 - 148	10/12/20 08:46	10/12/20 21:20	1
d9-N-EtFOSE-M	85		10 - 157	10/12/20 08:46	10/12/20 21:20	1
d5-NEtPFOSA	73		10 - 151	10/12/20 08:46	10/12/20 21:20	1
13C3 HFPO-DA	75		10 - 152	10/12/20 08:46	10/12/20 21:20	1

**Lab Sample ID: LCS 410-53181/2-B**  
**Matrix: Solid**  
**Analysis Batch: 53328**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 53181**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Perfluorohexanoic acid	25.0	24.8		ng/g		99	61 - 147
Perfluoroheptanoic acid	25.0	28.8		ng/g		115	61 - 151
Perfluorooctanoic acid	25.0	24.7		ng/g		99	62 - 144
Perfluorononanoic acid	25.0	25.7		ng/g		103	62 - 148
Perfluorodecanoic acid	25.0	24.9		ng/g		100	62 - 142
Perfluorotridecanoic acid	25.0	28.1		ng/g		112	57 - 152
Perfluorotetradecanoic acid	25.0	27.3		ng/g		109	60 - 147
Perfluorobutanesulfonic acid	22.1	22.3		ng/g		101	62 - 137
Perfluorohexanesulfonic acid	23.6	23.2		ng/g		98	57 - 135
Perfluorooctanesulfonic acid	23.9	21.6		ng/g		90	48 - 134
NEtFOSAA	25.0	27.4		ng/g		109	50 - 140
NMeFOSAA	25.0	27.4		ng/g		109	53 - 149
10:2 FTS	24.1	25.8		ng/g		107	42 - 142
Perfluoropentanesulfonic acid	23.5	25.7		ng/g		110	65 - 145
Perfluoroheptanesulfonic acid	23.8	24.5		ng/g		103	67 - 138
Perfluorononanesulfonic acid	24.0	24.7		ng/g		103	63 - 143
Perfluorodecanesulfonic acid	24.1	24.1		ng/g		100	60 - 142
Perfluorododecanesulfonic acid (PFDoS)	24.2	24.1		ng/g		100	52 - 145
Perfluorooctanesulfonamide	25.0	25.0		ng/g		100	52 - 132
Perfluorohexadecanoic acid	25.0	29.5		ng/g		118	44 - 161
Perfluorooctadecanoic acid	25.0	25.8		ng/g		103	16 - 175
Perfluorobutanoic acid	25.0	25.3		ng/g		101	50 - 185
Perfluoropentanoic acid	25.0	27.2		ng/g		109	69 - 144
NMeFOSE	25.0	24.9		ng/g		100	47 - 138
NMeFOSA	25.0	26.7		ng/g		107	43 - 134
NEtFOSE	25.0	25.2		ng/g		101	46 - 134
NEtFOSA	25.0	25.3		ng/g		101	48 - 130
HFPODA	25.0	25.1		ng/g		100	29 - 162

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# QC Sample Results

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

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

**Lab Sample ID: LCS 410-53181/2-B**  
**Matrix: Solid**  
**Analysis Batch: 53328**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 53181**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
DONA	23.6	22.9		ng/g		97	48 - 155
9CI-PF3ONS	23.3	23.4		ng/g		100	48 - 146
11CI-PF3OUdS	23.6	23.1		ng/g		98	45 - 145
Perfluorododecanoic acid	25.0	27.0		ng/g		108	60 - 147
4:2 Fluorotelomer sulfonic acid	23.4	21.1		ng/g		91	55 - 132
Perfluoroundecanoic acid	25.0	25.1		ng/g		101	62 - 144
6:2 Fluorotelomer sulfonic acid	23.7	24.4		ng/g		103	53 - 137
8:2 Fluorotelomer sulfonic acid	24.0	24.6		ng/g		103	50 - 147

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
M2-4:2 FTS	76		10 - 169
M2-8:2 FTS	76		10 - 178
M2-6:2 FTS	76		10 - 182
13C5 PFHxA	77		11 - 138
13C4 PFHpA	75		15 - 139
13C8 PFOA	79		21 - 133
13C9 PFNA	83		15 - 145
13C6 PFDA	79		21 - 134
13C7 PFUnA	78		15 - 138
13C2-PFDoDA	76		28 - 126
13C2 PFTeDA	76		10 - 138
13C3 PFBS	70		23 - 130
13C3 PFHxS	71		24 - 136
13C8 PFOS	78		31 - 130
d3-NMeFOSAA	76		10 - 172
d5-NEtFOSAA	77		10 - 176
13C8 FOSA	69		25 - 135
13C4 PFBA	76		12 - 137
13C5 PFPeA	76		12 - 135
d7-N-MeFOSE-M	82		10 - 152
d3-NMePFOSA	73		10 - 148
d9-N-EtFOSE-M	81		10 - 157
d5-NEtPFOSA	73		10 - 151
13C3 HFPO-DA	66		10 - 152

**Lab Sample ID: LCSD 410-53181/3-B**  
**Matrix: Solid**  
**Analysis Batch: 53328**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 53181**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Perfluorohexanoic acid	25.0	25.4		ng/g		102	61 - 147	2	30
Perfluoroheptanoic acid	25.0	26.2		ng/g		105	61 - 151	10	30
Perfluorooctanoic acid	25.0	25.9		ng/g		104	62 - 144	5	30
Perfluorononanoic acid	25.0	24.5		ng/g		98	62 - 148	5	30
Perfluorodecanoic acid	25.0	25.7		ng/g		103	62 - 142	3	30
Perfluorotridecanoic acid	25.0	27.1		ng/g		108	57 - 152	4	30
Perfluorotetradecanoic acid	25.0	27.3		ng/g		109	60 - 147	0	30
Perfluorobutanesulfonic acid	22.1	22.7		ng/g		103	62 - 137	2	30
Perfluorohexanesulfonic acid	23.6	21.9		ng/g		93	57 - 135	6	30

Eurofins Lancaster Laboratories Env, LLC



# QC Sample Results

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

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

Lab Sample ID: LCSD 410-53181/3-B  
Matrix: Solid  
Analysis Batch: 53328

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 53181

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid	23.9	20.9		ng/g		87	48 - 134	3	30
NEtFOSAA	25.0	28.3		ng/g		113	50 - 140	3	30
NMeFOSAA	25.0	27.2		ng/g		109	53 - 149	1	30
10:2 FTS	24.1	26.2		ng/g		109	42 - 142	2	30
Perfluoropentanesulfonic acid	23.5	25.2		ng/g		108	65 - 145	2	30
Perfluoroheptanesulfonic acid	23.8	23.3		ng/g		98	67 - 138	5	30
Perfluorononanesulfonic acid	24.0	24.4		ng/g		102	63 - 143	1	30
Perfluorodecanesulfonic acid	24.1	24.1		ng/g		100	60 - 142	0	30
Perfluorododecanesulfonic acid (PFDoS)	24.2	24.4		ng/g		101	52 - 145	1	30
Perfluorooctanesulfonamide	25.0	25.2		ng/g		101	52 - 132	1	30
Perfluorohexadecanoic acid	25.0	27.4		ng/g		110	44 - 161	7	30
Perfluorooctadecanoic acid	25.0	27.7		ng/g		111	16 - 175	7	30
Perfluorobutanoic acid	25.0	24.7		ng/g		99	50 - 185	2	30
Perfluoropentanoic acid	25.0	26.9		ng/g		108	69 - 144	1	30
NMeFOSE	25.0	25.5		ng/g		102	47 - 138	2	30
NMeFOSA	25.0	26.5		ng/g		106	43 - 134	1	30
NEtFOSE	25.0	24.9		ng/g		99	46 - 134	1	30
NEtFOSA	25.0	25.3		ng/g		101	48 - 130	0	30
HFPODA	25.0	24.1		ng/g		96	29 - 162	4	30
DONA	23.6	22.4		ng/g		95	48 - 155	2	30
9CI-PF3ONS	23.3	24.1		ng/g		103	48 - 146	3	30
11CI-PF3OUdS	23.6	23.5		ng/g		100	45 - 145	1	30
Perfluorododecanoic acid	25.0	26.7		ng/g		107	60 - 147	1	30
4:2 Fluorotelomer sulfonic acid	23.4	20.5		ng/g		88	55 - 132	3	30
Perfluoroundecanoic acid	25.0	25.7		ng/g		103	62 - 144	2	30
6:2 Fluorotelomer sulfonic acid	23.7	23.9		ng/g		101	53 - 137	2	30
8:2 Fluorotelomer sulfonic acid	24.0	25.7		ng/g		107	50 - 147	4	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	158		10 - 169
M2-8:2 FTS	147		10 - 178
M2-6:2 FTS	159		10 - 182
13C5 PFHxA	156	*5	11 - 138
13C4 PFHpA	161	*5	15 - 139
13C8 PFOA	151	*5	21 - 133
13C9 PFNA	161	*5	15 - 145
13C6 PFDA	152	*5	21 - 134
13C7 PFUnA	151	*5	15 - 138
13C2-PFDoDA	153	*5	28 - 126
13C2 PFTeDA	149	*5	10 - 138
13C3 PFBS	139	*5	23 - 130
13C3 PFHxS	154	*5	24 - 136
13C8 PFOS	149	*5	31 - 130
d3-NMeFOSAA	151		10 - 172
d5-NEtFOSAA	151		10 - 176
13C8 FOSA	139	*5	25 - 135
13C4 PFBA	151	*5	12 - 137
13C5 PFPeA	150	*5	12 - 135

# QC Sample Results

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

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

**Lab Sample ID: LCSD 410-53181/3-B**  
**Matrix: Solid**  
**Analysis Batch: 53328**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 53181**

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
d7-N-MeFOSE-M	157	*5	10 - 152
d3-NMePFOSA	141		10 - 148
d9-N-EtFOSE-M	158	*5	10 - 157
d5-NEtPFOSA	145		10 - 151
13C3 HFPO-DA	142		10 - 152

**Lab Sample ID: MB 410-53739/1-A**  
**Matrix: Water**  
**Analysis Batch: 56250**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 53739**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanoic acid	ND		2.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
Perfluoroheptanoic acid	ND		2.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
Perfluorooctanoic acid	ND		2.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
Perfluorononanoic acid	ND		2.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
Perfluorodecanoic acid	ND		2.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
Perfluorotridecanoic acid	ND		2.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
Perfluorotetradecanoic acid	ND		2.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
Perfluorobutanesulfonic acid	ND		2.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
Perfluorohexanesulfonic acid	ND		2.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
Perfluorooctanesulfonic acid	ND		2.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
NEtFOSAA	ND		3.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
NMeFOSAA	ND		2.0	0.60	ng/L		10/13/20 09:52	10/20/20 09:34	1
10:2 FTS	ND		5.0	1.0	ng/L		10/13/20 09:52	10/20/20 09:34	1
Perfluoropentanesulfonic acid	ND		2.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
Perfluoroheptanesulfonic acid	ND		2.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
Perfluorononanesulfonic acid	ND		2.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
Perfluorodecanesulfonic acid	ND		2.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
Perfluorododecanesulfonic acid (PFDoS)	ND		3.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
Perfluorooctanesulfonamide	ND		2.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
Perfluorohexadecanoic acid	ND		3.0	1.0	ng/L		10/13/20 09:52	10/20/20 09:34	1
Perfluorooctadecanoic acid	ND		3.0	1.0	ng/L		10/13/20 09:52	10/20/20 09:34	1
Perfluorobutanoic acid	ND		5.0	2.0	ng/L		10/13/20 09:52	10/20/20 09:34	1
Perfluoropentanoic acid	ND		2.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
NMeFOSE	ND		3.0	1.0	ng/L		10/13/20 09:52	10/20/20 09:34	1
NMeFOSA	ND		3.0	1.0	ng/L		10/13/20 09:52	10/20/20 09:34	1
NEtFOSE	ND		3.0	1.0	ng/L		10/13/20 09:52	10/20/20 09:34	1
NEtFOSA	ND		5.0	1.0	ng/L		10/13/20 09:52	10/20/20 09:34	1
HFPODA	ND		3.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
DONA	ND		2.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
9Cl-PF3ONS	ND		2.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
11Cl-PF3OUdS	ND		2.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
Perfluorododecanoic acid	ND		2.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
4:2 Fluorotelomer sulfonic acid	ND		2.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
Perfluoroundecanoic acid	ND		2.0	0.50	ng/L		10/13/20 09:52	10/20/20 09:34	1
6:2 Fluorotelomer sulfonic acid	ND		5.0	2.0	ng/L		10/13/20 09:52	10/20/20 09:34	1
8:2 Fluorotelomer sulfonic acid	ND		3.0	1.0	ng/L		10/13/20 09:52	10/20/20 09:34	1

# QC Sample Results

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

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

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
M2-4:2 FTS	108		20 - 187	10/13/20 09:52	10/20/20 09:34	1
M2-8:2 FTS	108		34 - 182	10/13/20 09:52	10/20/20 09:34	1
M2-6:2 FTS	121		29 - 189	10/13/20 09:52	10/20/20 09:34	1
13C5 PFHxA	105		31 - 142	10/13/20 09:52	10/20/20 09:34	1
13C4 PFHpA	108		30 - 144	10/13/20 09:52	10/20/20 09:34	1
13C8 PFOA	110		49 - 127	10/13/20 09:52	10/20/20 09:34	1
13C9 PFNA	105		47 - 136	10/13/20 09:52	10/20/20 09:34	1
13C6 PFDA	101		47 - 128	10/13/20 09:52	10/20/20 09:34	1
13C7 PFUnA	101		40 - 135	10/13/20 09:52	10/20/20 09:34	1
13C2-PFDoDA	93		28 - 136	10/13/20 09:52	10/20/20 09:34	1
13C2 PFTeDA	91		10 - 144	10/13/20 09:52	10/20/20 09:34	1
13C3 PFBS	96		19 - 178	10/13/20 09:52	10/20/20 09:34	1
13C3 PFHxS	100		32 - 145	10/13/20 09:52	10/20/20 09:34	1
13C8 PFOS	98		49 - 126	10/13/20 09:52	10/20/20 09:34	1
d3-NMeFOSAA	108		32 - 151	10/13/20 09:52	10/20/20 09:34	1
d5-NEtFOSAA	109		37 - 164	10/13/20 09:52	10/20/20 09:34	1
13C8 FOSA	93		10 - 143	10/13/20 09:52	10/20/20 09:34	1
13C4 PFBA	99		41 - 132	10/13/20 09:52	10/20/20 09:34	1
13C5 PFPeA	101		33 - 155	10/13/20 09:52	10/20/20 09:34	1
d7-N-MeFOSE-M	83		10 - 143	10/13/20 09:52	10/20/20 09:34	1
d3-NMePFOSA	55		10 - 107	10/13/20 09:52	10/20/20 09:34	1
d9-N-EtFOSE-M	82		10 - 142	10/13/20 09:52	10/20/20 09:34	1
d5-NEtPFOSA	60		10 - 108	10/13/20 09:52	10/20/20 09:34	1
13C3 HFPO-DA	94		20 - 153	10/13/20 09:52	10/20/20 09:34	1

**Lab Sample ID: LCS 410-53739/2-A**  
**Matrix: Water**  
**Analysis Batch: 56250**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 53739**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Perfluorohexanoic acid	25.6	27.5		ng/L		107	66 - 137
Perfluoroheptanoic acid	25.6	30.2		ng/L		118	66 - 141
Perfluorooctanoic acid	25.6	24.3		ng/L		95	65 - 136
Perfluorononanoic acid	25.6	27.0		ng/L		105	65 - 140
Perfluorodecanoic acid	25.6	26.1		ng/L		102	63 - 137
Perfluorotridecanoic acid	25.6	31.6		ng/L		123	58 - 146
Perfluorotetradecanoic acid	25.6	27.3		ng/L		106	64 - 141
Perfluorobutanesulfonic acid	22.6	23.2		ng/L		103	65 - 132
Perfluorohexanesulfonic acid	24.2	21.7		ng/L		90	60 - 128
Perfluorooctanesulfonic acid	24.5	20.3		ng/L		83	51 - 126
NEtFOSAA	25.6	27.0		ng/L		105	54 - 134
NMeFOSAA	25.6	26.5		ng/L		103	58 - 143
10:2 FTS	24.7	23.5		ng/L		95	44 - 141
Perfluoropentanesulfonic acid	24.0	26.3		ng/L		110	71 - 136
Perfluoroheptanesulfonic acid	24.4	25.9		ng/L		106	67 - 135
Perfluorononanesulfonic acid	24.6	29.1		ng/L		118	67 - 137
Perfluorodecanesulfonic acid	24.7	28.3		ng/L		115	61 - 134
Perfluorododecanesulfonic acid (PFDoS)	24.8	25.7		ng/L		104	54 - 136
Perfluorooctanesulfonamide	25.6	26.1		ng/L		102	55 - 130
Perfluorohexadecanoic acid	25.6	32.6		ng/L		127	52 - 149
Perfluorooctadecanoic acid	25.6	25.7		ng/L		100	32 - 167

# QC Sample Results

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

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

**Lab Sample ID: LCS 410-53739/2-A**  
**Matrix: Water**  
**Analysis Batch: 56250**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 53739**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid	25.6	28.7		ng/L		112	62 - 156
Perfluoropentanoic acid	25.6	27.7		ng/L		108	72 - 139
NMeFOSE	25.6	25.6		ng/L		100	52 - 131
NMeFOSA	25.6	27.1		ng/L		106	49 - 141
NEtFOSE	25.6	22.1		ng/L		86	49 - 128
NEtFOSA	25.6	25.7		ng/L		100	50 - 136
HFPODA	25.6	25.9		ng/L		101	37 - 147
DONA	24.1	27.6		ng/L		115	49 - 158
9CI-PF3ONS	23.9	23.0		ng/L		96	52 - 135
11CI-PF3OUdS	24.1	24.3		ng/L		101	45 - 134
Perfluorododecanoic acid	25.6	27.4		ng/L		107	63 - 140
4:2 Fluorotelomer sulfonic acid	23.9	25.9		ng/L		108	59 - 130
Perfluoroundecanoic acid	25.6	28.9		ng/L		113	62 - 138
6:2 Fluorotelomer sulfonic acid	24.3	26.5		ng/L		109	57 - 137
8:2 Fluorotelomer sulfonic acid	24.5	26.5		ng/L		108	56 - 140

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	101		20 - 187
M2-8:2 FTS	101		34 - 182
M2-6:2 FTS	113		29 - 189
13C5 PFHxA	108		31 - 142
13C4 PFHpA	102		30 - 144
13C8 PFOA	108		49 - 127
13C9 PFNA	104		47 - 136
13C6 PFDA	98		47 - 128
13C7 PFUnA	97		40 - 135
13C2-PFDoDA	98		28 - 136
13C2 PFTeDA	93		10 - 144
13C3 PFBS	97		19 - 178
13C3 PFHxS	98		32 - 145
13C8 PFOS	94		49 - 126
d3-NMeFOSAA	120		32 - 151
d5-NEtFOSAA	109		37 - 164
13C8 FOSA	95		10 - 143
13C4 PFBA	104		41 - 132
13C5 PFPeA	108		33 - 155
d7-N-MeFOSE-M	82		10 - 143
d3-NMePFOSA	66		10 - 107
d9-N-EtFOSE-M	85		10 - 142
d5-NEtPFOSA	63		10 - 108
13C3 HFPO-DA	93		20 - 153

**Lab Sample ID: LCSD 410-53739/3-A**  
**Matrix: Water**  
**Analysis Batch: 56250**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 53739**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Perfluorohexanoic acid	25.6	29.7		ng/L		116	66 - 137	8	30
Perfluoroheptanoic acid	25.6	29.6		ng/L		116	66 - 141	2	30

Eurofins Lancaster Laboratories Env, LLC

# QC Sample Results

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

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

Lab Sample ID: LCSD 410-53739/3-A

Matrix: Water

Analysis Batch: 56250

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 53739

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanoic acid	25.6	24.6		ng/L		96	65 - 136	1	30
Perfluorononanoic acid	25.6	27.9		ng/L		109	65 - 140	3	30
Perfluorodecanoic acid	25.6	25.9		ng/L		101	63 - 137	1	30
Perfluorotridecanoic acid	25.6	35.3		ng/L		138	58 - 146	11	30
Perfluorotetradecanoic acid	25.6	29.2		ng/L		114	64 - 141	7	30
Perfluorobutanesulfonic acid	22.6	22.8		ng/L		101	65 - 132	2	30
Perfluorohexanesulfonic acid	24.2	21.8		ng/L		90	60 - 128	0	30
Perfluorooctanesulfonic acid	24.5	20.5		ng/L		84	51 - 126	1	30
NEtFOSAA	25.6	26.7		ng/L		104	54 - 134	1	30
NMeFOSAA	25.6	29.7		ng/L		116	58 - 143	12	30
10:2 FTS	24.7	22.1		ng/L		90	44 - 141	6	30
Perfluoropentanesulfonic acid	24.0	26.0		ng/L		108	71 - 136	1	30
Perfluoroheptanesulfonic acid	24.4	24.6		ng/L		101	67 - 135	5	30
Perfluorononanesulfonic acid	24.6	27.2		ng/L		111	67 - 137	7	30
Perfluorodecanesulfonic acid	24.7	27.6		ng/L		112	61 - 134	3	30
Perfluorododecanesulfonic acid (PFDoS)	24.8	25.4		ng/L		102	54 - 136	1	30
Perfluorooctanesulfonamide	25.6	26.2		ng/L		102	55 - 130	0	30
Perfluorohexadecanoic acid	25.6	36.4		ng/L		142	52 - 149	11	30
Perfluorooctadecanoic acid	25.6	32.2		ng/L		126	32 - 167	22	30
Perfluorobutanoic acid	25.6	29.4		ng/L		115	62 - 156	2	30
Perfluoropentanoic acid	25.6	27.9		ng/L		109	72 - 139	1	30
NMeFOSE	25.6	23.3		ng/L		91	52 - 131	10	30
NMeFOSA	25.6	27.4		ng/L		107	49 - 141	1	30
NEtFOSE	25.6	23.1		ng/L		90	49 - 128	4	30
NEtFOSA	25.6	26.6		ng/L		104	50 - 136	4	30
HFPODA	25.6	24.2		ng/L		94	37 - 147	7	30
DONA	24.1	28.2		ng/L		117	49 - 158	2	30
9Cl-PF3ONS	23.9	23.0		ng/L		97	52 - 135	0	30
11Cl-PF3OUdS	24.1	23.8		ng/L		98	45 - 134	2	30
Perfluorododecanoic acid	25.6	27.4		ng/L		107	63 - 140	0	30
4:2 Fluorotelomer sulfonic acid	23.9	26.0		ng/L		109	59 - 130	0	30
Perfluoroundecanoic acid	25.6	26.3		ng/L		103	62 - 138	10	30
6:2 Fluorotelomer sulfonic acid	24.3	23.8		ng/L		98	57 - 137	11	30
8:2 Fluorotelomer sulfonic acid	24.5	24.1		ng/L		98	56 - 140	9	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
M2-4:2 FTS	101		20 - 187
M2-8:2 FTS	108		34 - 182
M2-6:2 FTS	114		29 - 189
13C5 PFHxA	103		31 - 142
13C4 PFHpA	103		30 - 144
13C8 PFOA	108		49 - 127
13C9 PFNA	105		47 - 136
13C6 PFDA	100		47 - 128
13C7 PFUnA	104		40 - 135
13C2-PFDoDA	101		28 - 136
13C2 PFTeDA	86		10 - 144
13C3 PFBS	99		19 - 178

# QC Sample Results

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

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

Lab Sample ID: LCSD 410-53739/3-A  
Matrix: Water  
Analysis Batch: 56250

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 53739

<i>Isotope Dilution</i>	<i>LCSD LCSD</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C3 PFHxS	100		32 - 145
13C8 PFOS	100		49 - 126
d3-NMeFOSAA	111		32 - 151
d5-NEtFOSAA	112		37 - 164
13C8 FOSA	95		10 - 143
13C4 PFBA	102		41 - 132
13C5 PFPeA	107		33 - 155
d7-N-MeFOSE-M	83		10 - 143
d3-NMePFOSA	53		10 - 107
d9-N-EtFOSE-M	82		10 - 142
d5-NEtPFOSA	52		10 - 108
13C3 HFPO-DA	99		20 - 153



# QC Association Summary

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

## LCMS

### Prep Batch: 53181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16652-8	Oyster	Total/NA	Solid	537 (mod)	
410-16652-9	Crab	Total/NA	Solid	537 (mod)	
410-16652-10	Stripped Bass	Total/NA	Solid	537 (mod)	
MB 410-53181/1-B	Method Blank	Total/NA	Solid	537 (mod)	
LCS 410-53181/2-B	Lab Control Sample	Total/NA	Solid	537 (mod)	
LCSD 410-53181/3-B	Lab Control Sample Dup	Total/NA	Solid	537 (mod)	

### Cleanup Batch: 53187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16652-8	Oyster	Total/NA	Solid	Extract Aliquot	53181
410-16652-9	Crab	Total/NA	Solid	Extract Aliquot	53181
410-16652-10	Stripped Bass	Total/NA	Solid	Extract Aliquot	53181
MB 410-53181/1-B	Method Blank	Total/NA	Solid	Extract Aliquot	53181
LCS 410-53181/2-B	Lab Control Sample	Total/NA	Solid	Extract Aliquot	53181
LCSD 410-53181/3-B	Lab Control Sample Dup	Total/NA	Solid	Extract Aliquot	53181

### Analysis Batch: 53328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16652-8	Oyster	Total/NA	Solid	537 IDA	53187
410-16652-9	Crab	Total/NA	Solid	537 IDA	53187
410-16652-10	Stripped Bass	Total/NA	Solid	537 IDA	53187
MB 410-53181/1-B	Method Blank	Total/NA	Solid	537 IDA	53187
LCS 410-53181/2-B	Lab Control Sample	Total/NA	Solid	537 IDA	53187
LCSD 410-53181/3-B	Lab Control Sample Dup	Total/NA	Solid	537 IDA	53187

### Prep Batch: 53739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16652-3	Water St Inigoes Creek	Total/NA	Water	537 IDA	
410-16652-4	Fish Knife	Total/NA	Water	537 IDA	
410-16652-5	Crab Knife	Total/NA	Water	537 IDA	
410-16652-6	Field Blank	Total/NA	Water	537 IDA	
410-16652-11	Oyster Shuck	Total/NA	Water	537 IDA	
MB 410-53739/1-A	Method Blank	Total/NA	Water	537 IDA	
LCS 410-53739/2-A	Lab Control Sample	Total/NA	Water	537 IDA	
LCSD 410-53739/3-A	Lab Control Sample Dup	Total/NA	Water	537 IDA	

### Analysis Batch: 56250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-16652-3	Water St Inigoes Creek	Total/NA	Water	537 IDA	53739
410-16652-4	Fish Knife	Total/NA	Water	537 IDA	53739
410-16652-5	Crab Knife	Total/NA	Water	537 IDA	53739
410-16652-6	Field Blank	Total/NA	Water	537 IDA	53739
410-16652-11	Oyster Shuck	Total/NA	Water	537 IDA	53739
MB 410-53739/1-A	Method Blank	Total/NA	Water	537 IDA	53739
LCS 410-53739/2-A	Lab Control Sample	Total/NA	Water	537 IDA	53739
LCSD 410-53739/3-A	Lab Control Sample Dup	Total/NA	Water	537 IDA	53739

# Lab Chronicle

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

## Client Sample ID: Water St Inigoes Creek

Date Collected: 10/07/20 16:00

Date Received: 10/08/20 17:02

Lab Sample ID: 410-16652-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 IDA			53739	10/13/20 09:52	S7AC	ELLE
Total/NA	Analysis	537 IDA		1	56250	10/20/20 10:06	MT26	ELLE

## Client Sample ID: Fish Knife

Date Collected: 10/07/20 14:00

Date Received: 10/08/20 17:02

Lab Sample ID: 410-16652-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 IDA			53739	10/13/20 09:52	S7AC	ELLE
Total/NA	Analysis	537 IDA		1	56250	10/20/20 10:17	MT26	ELLE

## Client Sample ID: Crab Knife

Date Collected: 10/07/20 15:00

Date Received: 10/08/20 17:02

Lab Sample ID: 410-16652-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 IDA			53739	10/13/20 09:52	S7AC	ELLE
Total/NA	Analysis	537 IDA		1	56250	10/20/20 10:27	MT26	ELLE

## Client Sample ID: Field Blank

Date Collected: 10/07/20 14:00

Date Received: 10/08/20 17:02

Lab Sample ID: 410-16652-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 IDA			53739	10/13/20 09:52	S7AC	ELLE
Total/NA	Analysis	537 IDA		1	56250	10/20/20 10:38	MT26	ELLE

## Client Sample ID: Oyster

Date Collected: 10/07/20 15:30

Date Received: 10/08/20 17:02

Lab Sample ID: 410-16652-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			53181	10/12/20 08:46	Q5YX	ELLE
Total/NA	Cleanup	Extract Aliquot			53187	10/12/20 08:54	Q5YX	ELLE
Total/NA	Analysis	537 IDA		1	53328	10/12/20 21:49	OLN7	ELLE

## Client Sample ID: Crab

Date Collected: 10/07/20 15:30

Date Received: 10/08/20 17:02

Lab Sample ID: 410-16652-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			53181	10/12/20 08:46	Q5YX	ELLE
Total/NA	Cleanup	Extract Aliquot			53187	10/12/20 08:54	Q5YX	ELLE
Total/NA	Analysis	537 IDA		1	53328	10/12/20 21:59	OLN7	ELLE



# Lab Chronicle

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

## Client Sample ID: Stripped Bass

Lab Sample ID: 410-16652-10

Date Collected: 10/07/20 15:00

Matrix: Solid

Date Received: 10/08/20 17:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 (mod)			53181	10/12/20 08:46	Q5YX	ELLE
Total/NA	Cleanup	Extract Aliquot			53187	10/12/20 08:54	Q5YX	ELLE
Total/NA	Analysis	537 IDA		1	53328	10/12/20 22:09	OLN7	ELLE

## Client Sample ID: Oyster Shuck

Lab Sample ID: 410-16652-11

Date Collected: 10/07/20 14:00

Matrix: Water

Date Received: 10/08/20 17:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 IDA			53739	10/13/20 09:52	S7AC	ELLE
Total/NA	Analysis	537 IDA		1	56250	10/21/20 07:05	MT26	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: St Mary's

Job ID: 410-16652-1

## 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	06-30-21

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

# Accreditation/Certification Summary

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

## 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	06-30-21
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

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 (mod)	Solid	10:2 FTS
537 IDA	537 (mod)	Solid	11CI-PF3OUdS
537 IDA	537 (mod)	Solid	4:2 Fluorotelomer sulfonic acid
537 IDA	537 (mod)	Solid	6:2 Fluorotelomer sulfonic acid
537 IDA	537 (mod)	Solid	8:2 Fluorotelomer sulfonic acid
537 IDA	537 (mod)	Solid	9CI-PF3ONS
537 IDA	537 (mod)	Solid	DONA
537 IDA	537 (mod)	Solid	HFPODA
537 IDA	537 (mod)	Solid	NEtFOSA
537 IDA	537 (mod)	Solid	NEtFOSAA
537 IDA	537 (mod)	Solid	NEtFOSE
537 IDA	537 (mod)	Solid	NMeFOSA
537 IDA	537 (mod)	Solid	NMeFOSAA
537 IDA	537 (mod)	Solid	NMeFOSE
537 IDA	537 (mod)	Solid	Perfluorobutanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorobutanoic acid
537 IDA	537 (mod)	Solid	Perfluorodecanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorodecanoic acid

# Accreditation/Certification Summary

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

## 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	537 (mod)	Solid	Perfluorododecanesulfonic acid (PFDoS)
537 IDA	537 (mod)	Solid	Perfluorododecanoic acid
537 IDA	537 (mod)	Solid	Perfluoroheptanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluoroheptanoic acid
537 IDA	537 (mod)	Solid	Perfluorohexadecanoic acid
537 IDA	537 (mod)	Solid	Perfluorohexanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorohexanoic acid
537 IDA	537 (mod)	Solid	Perfluorononanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorononanoic acid
537 IDA	537 (mod)	Solid	Perfluorooctadecanoic acid
537 IDA	537 (mod)	Solid	Perfluorooctanesulfonamide
537 IDA	537 (mod)	Solid	Perfluorooctanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluorooctanoic acid
537 IDA	537 (mod)	Solid	Perfluoropentanesulfonic acid
537 IDA	537 (mod)	Solid	Perfluoropentanoic acid
537 IDA	537 (mod)	Solid	Perfluorotetradecanoic acid
537 IDA	537 (mod)	Solid	Perfluorotridecanoic acid
537 IDA	537 (mod)	Solid	Perfluoroundecanoic acid
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

# Accreditation/Certification Summary

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

## Laboratory: Eurofins Lancaster Laboratories Env, LLC (Continued)

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

<u>Authority</u>	<u>Program</u>	<u>Identification Number</u>	<u>Expiration Date</u>
New York	NELAP	10670	04-01-21
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

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# Method Summary

Client: PEER  
Project/Site: St Mary's

Job ID: 410-16652-1

Method	Method Description	Protocol	Laboratory
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
537 (mod)	EPA 537 Isotope Dilution	EPA	ELLE
537 IDA	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: St Mary's

Job ID: 410-16652-1

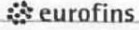
Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-16652-3	Water St Inigoes Creek	Water	10/07/20 16:00	10/08/20 17:02	
410-16652-4	Fish Knife	Water	10/07/20 14:00	10/08/20 17:02	
410-16652-5	Crab Knife	Water	10/07/20 15:00	10/08/20 17:02	
410-16652-6	Field Blank	Water	10/07/20 14:00	10/08/20 17:02	
410-16652-8	Oyster	Solid	10/07/20 15:30	10/08/20 17:02	
410-16652-9	Crab	Solid	10/07/20 15:30	10/08/20 17:02	
410-16652-10	Stripped Bass	Solid	10/07/20 15:00	10/08/20 17:02	
410-16652-11	Oyster Shuck	Water	10/07/20 14:00	10/08/20 17:02	

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410-16652 Chain of Custody

# Environmental Analysis Request/Chain of Custody



Lancaster Laboratories Environmental

Acct. # \_\_\_\_\_ Group # \_\_\_\_\_ Sample # \_\_\_\_\_

Client: <u>PEER</u>		Site ID #:		Matrix		Analyses Requested		For Lab Use Only	
Project Name #: <u>St Mary's</u>		Site ID #:		Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Tissue <input type="checkbox"/>		Preservation and Filtration Codes		SF #:	
Project Manager: <u>Tim Whitehorn</u>		P.O. #:		Potable <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/>				SCR #:	
Sampler: <u>Tim Whitehorn</u>		PWSID #:		Water <input type="checkbox"/> NPDES <input type="checkbox"/>				Preservation Codes	
Phone #:		Quote #:		Other: _____				H = HCl      T = Thiosulfate	
State where samples were collected: _____		For Compliance: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Total # of Containers				N = HNO <sub>3</sub> B = NaOH	
								S = H <sub>2</sub> SO <sub>4</sub> P = H <sub>3</sub> PO <sub>4</sub>	
								F = Field Filtered      O = Other	
Sample Identification		Collection		Grab		Composite		Remarks	
		Date		Time					
<u>WATER QC - DOCK STIN</u>									
<u>WATER QC DOCK STIN</u>									
<u>WATER STINGIRO CREEK</u>									
<u>Fish Knife</u>									
<u>Crab Knife</u>									
<u>FIELD Blank</u>									
<u>Oyster Shuck</u>									
<u>Oyster</u>									
<u>Crab</u>									
<u>STRIPPED BASS</u>									
Turnaround Time Requested (TAT) (please check): Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		(Rush TAT is subject to laboratory approval and surcharges.)		Relinquished by: <u>Whitehorn</u>		Date: <u>10/8</u>		Time: <u>11:35</u>	
Date results are needed:				Relinquished by: <u>Whitehorn</u>		Date: <u>10/8</u>		Time: <u>16:40</u>	
Rush results requested by (please check): E-Mail <input type="checkbox"/> Phone <input type="checkbox"/>				Relinquished by: _____		Date: _____		Time: _____	
E-mail Address:				Relinquished by: _____		Date: _____		Time: _____	
Phone:				Relinquished by: _____		Date: _____		Time: _____	
Data Package Options (please check if required)				Relinquished by: _____		Date: _____		Time: _____	
Type I (Validation/non-CLP) <input type="checkbox"/> MA MCP <input type="checkbox"/>				Relinquished by: _____		Date: _____		Time: _____	
Type III (Reduced non-CLP) <input type="checkbox"/> CT RCP <input type="checkbox"/>				Relinquished by: _____		Date: _____		Time: _____	
Type VI (Raw Data Only) <input type="checkbox"/> TX TRRP-13 <input type="checkbox"/>				Relinquished by: _____		Date: _____		Time: _____	
NJ DKQP <input type="checkbox"/> NYSDEC Category <input type="checkbox"/> A or <input type="checkbox"/> B				Relinquished by Commercial Carrier:		Date: <u>10/8/20</u>		Time: <u>17:02</u>	
EDD Required? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, format: _____				UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other <input checked="" type="checkbox"/>		Temperature upon receipt: <u>1.9</u> °C			

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## Login Sample Receipt Checklist

Client: PEER

Job Number: 410-16652-1

**Login Number: 16652**

**List Source: Eurofins Lancaster Laboratories Env**

**List Number: 1**

**Creator: Rivera-Santa, Julissa**

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).	True	
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.	False	No date or time on COC or containers.
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.	False	Limited volume received.
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	