

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
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Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-54773-1
Client Project/Site: Newberry System
Sampling Event: Newberry System

For:
SUEZ Water Environmental Services Inc
6310 Allentown Blvd
Suite 104
Harrisburg, Pennsylvania 17112

Attn: Penny Bumbarger



Authorized for release by:
9/24/2021 10:43:15 AM

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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 results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
 - 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 and/or isotope dilution analyte 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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Elizabeth Zanar
Project Manager
9/24/2021 10:43:15 AM



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Definitions/Glossary

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-54773-1

Qualifiers

LCMS

Qualifier	Qualifier Description
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.
α	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: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-54773-1

Job ID: 410-54773-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-54773-1

Receipt

The samples were received on 9/10/2021 5:07 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.1°C

PFAS

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

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Detection Summary

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-54773-1

Client Sample ID: 7670061 006 Eden Well

Lab Sample ID: 410-54773-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	6.0		1.7	0.43	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	4.2		1.7	0.43	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	9.1		1.7	0.43	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	6.5		1.7	0.43	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	5.5		1.7	0.43	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	10		1.7	0.43	ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: 7670061 006 Eden Well FB

Lab Sample ID: 410-54773-2

No Detections.

Client Sample ID: 7670061 007 Reeser Well 1

Lab Sample ID: 410-54773-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	2.0		1.7	0.43	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	4.1		1.7	0.43	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	4.7		1.7	0.43	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	3.2		1.7	0.43	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	4.4		1.7	0.43	ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: 7670061 007 Reeser Well 1 FB

Lab Sample ID: 410-54773-4

No Detections.

Client Sample ID: 7670061 008 Reeser Well 2

Lab Sample ID: 410-54773-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	2.1		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	4.0		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	4.0		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	3.3		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	4.7		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: 7670061 008 Reeser Well 2 FB

Lab Sample ID: 410-54773-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Client Sample Results

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-54773-1

Client Sample ID: 7670061 006 Eden Well

Lab Sample ID: 410-54773-1

Date Collected: 09/09/21 11:35

Matrix: Drinking Water

Date Received: 09/10/21 17:07

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	6.0		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:06	1
Perfluoroheptanoic acid	4.2		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:06	1
Perfluorooctanoic acid	9.1		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:06	1
Perfluorononanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:06	1
Perfluorodecanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:06	1
Perfluorotridecanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:06	1
Perfluorotetradecanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:06	1
Perfluorobutanesulfonic acid	6.5		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:06	1
Perfluorohexanesulfonic acid	5.5		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:06	1
Perfluorooctanesulfonic acid	10		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:06	1
NEtFOSAA	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:06	1
NMeFOSAA	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:06	1
Perfluoroundecanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:06	1
Perfluorododecanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	86		70 - 130				09/22/21 16:42	09/23/21 19:06	1
13C2 PFDA	90		70 - 130				09/22/21 16:42	09/23/21 19:06	1
13C2 PFHxA	72		70 - 130				09/22/21 16:42	09/23/21 19:06	1

Client Sample ID: 7670061 006 Eden Well FB

Lab Sample ID: 410-54773-2

Date Collected: 09/09/21 11:35

Matrix: Potable Water

Date Received: 09/10/21 17:07

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:18	1
Perfluoroheptanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:18	1
Perfluorooctanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:18	1
Perfluorononanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:18	1
Perfluorodecanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:18	1
Perfluorotridecanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:18	1
Perfluorotetradecanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:18	1
Perfluorobutanesulfonic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:18	1
Perfluorohexanesulfonic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:18	1
Perfluorooctanesulfonic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:18	1
NEtFOSAA	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:18	1
NMeFOSAA	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:18	1
Perfluoroundecanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:18	1
Perfluorododecanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	87		70 - 130				09/22/21 16:42	09/23/21 19:18	1
13C2 PFDA	88		70 - 130				09/22/21 16:42	09/23/21 19:18	1
13C2 PFHxA	94		70 - 130				09/22/21 16:42	09/23/21 19:18	1

Client Sample Results

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-54773-1

Client Sample ID: 7670061 007 Reeser Well 1

Lab Sample ID: 410-54773-3

Date Collected: 09/09/21 12:35

Matrix: Drinking Water

Date Received: 09/10/21 17:07

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	2.0		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:29	1
Perfluoroheptanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:29	1
Perfluorooctanoic acid	4.1		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:29	1
Perfluorononanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:29	1
Perfluorodecanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:29	1
Perfluorotridecanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:29	1
Perfluorotetradecanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:29	1
Perfluorobutanesulfonic acid	4.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:29	1
Perfluorohexanesulfonic acid	3.2		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:29	1
Perfluorooctanesulfonic acid	4.4		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:29	1
NEtFOSAA	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:29	1
NMeFOSAA	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:29	1
Perfluoroundecanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:29	1
Perfluorododecanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	86		70 - 130				09/22/21 16:42	09/23/21 19:29	1
13C2 PFDA	89		70 - 130				09/22/21 16:42	09/23/21 19:29	1
13C2 PFHxA	89		70 - 130				09/22/21 16:42	09/23/21 19:29	1

Client Sample ID: 7670061 007 Reeser Well 1 FB

Lab Sample ID: 410-54773-4

Date Collected: 09/09/21 12:35

Matrix: Potable Water

Date Received: 09/10/21 17:07

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:41	1
Perfluoroheptanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:41	1
Perfluorooctanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:41	1
Perfluorononanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:41	1
Perfluorodecanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:41	1
Perfluorotridecanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:41	1
Perfluorotetradecanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:41	1
Perfluorobutanesulfonic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:41	1
Perfluorohexanesulfonic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:41	1
Perfluorooctanesulfonic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:41	1
NEtFOSAA	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:41	1
NMeFOSAA	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:41	1
Perfluoroundecanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:41	1
Perfluorododecanoic acid	<1.7		1.7	0.43	ng/L		09/22/21 16:42	09/23/21 19:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	87		70 - 130				09/22/21 16:42	09/23/21 19:41	1
13C2 PFDA	85		70 - 130				09/22/21 16:42	09/23/21 19:41	1
13C2 PFHxA	94		70 - 130				09/22/21 16:42	09/23/21 19:41	1

Client Sample Results

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-54773-1

Client Sample ID: 7670061 008 Reeser Well 2

Lab Sample ID: 410-54773-5

Date Collected: 09/09/21 12:45

Matrix: Drinking Water

Date Received: 09/10/21 17:07

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	2.1		1.8	0.45	ng/L		09/22/21 16:42	09/23/21 19:52	1
Perfluoroheptanoic acid	<1.8		1.8	0.45	ng/L		09/22/21 16:42	09/23/21 19:52	1
Perfluorooctanoic acid	4.0		1.8	0.45	ng/L		09/22/21 16:42	09/23/21 19:52	1
Perfluorononanoic acid	<1.8		1.8	0.45	ng/L		09/22/21 16:42	09/23/21 19:52	1
Perfluorodecanoic acid	<1.8		1.8	0.45	ng/L		09/22/21 16:42	09/23/21 19:52	1
Perfluorotridecanoic acid	<1.8		1.8	0.45	ng/L		09/22/21 16:42	09/23/21 19:52	1
Perfluorotetradecanoic acid	<1.8		1.8	0.45	ng/L		09/22/21 16:42	09/23/21 19:52	1
Perfluorobutanesulfonic acid	4.0		1.8	0.45	ng/L		09/22/21 16:42	09/23/21 19:52	1
Perfluorohexanesulfonic acid	3.3		1.8	0.45	ng/L		09/22/21 16:42	09/23/21 19:52	1
Perfluorooctanesulfonic acid	4.7		1.8	0.45	ng/L		09/22/21 16:42	09/23/21 19:52	1
NEtFOSAA	<1.8		1.8	0.45	ng/L		09/22/21 16:42	09/23/21 19:52	1
NMeFOSAA	<1.8		1.8	0.45	ng/L		09/22/21 16:42	09/23/21 19:52	1
Perfluoroundecanoic acid	<1.8		1.8	0.45	ng/L		09/22/21 16:42	09/23/21 19:52	1
Perfluorododecanoic acid	<1.8		1.8	0.45	ng/L		09/22/21 16:42	09/23/21 19:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	88		70 - 130				09/22/21 16:42	09/23/21 19:52	1
13C2 PFDA	88		70 - 130				09/22/21 16:42	09/23/21 19:52	1
13C2 PFHxA	90		70 - 130				09/22/21 16:42	09/23/21 19:52	1

Client Sample ID: 7670061 008 Reeser Well 2 FB

Lab Sample ID: 410-54773-6

Date Collected: 09/09/21 12:45

Matrix: Potable Water

Date Received: 09/10/21 17:07

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.7		1.7	0.42	ng/L		09/22/21 16:42	09/23/21 20:04	1
Perfluoroheptanoic acid	<1.7		1.7	0.42	ng/L		09/22/21 16:42	09/23/21 20:04	1
Perfluorooctanoic acid	<1.7		1.7	0.42	ng/L		09/22/21 16:42	09/23/21 20:04	1
Perfluorononanoic acid	<1.7		1.7	0.42	ng/L		09/22/21 16:42	09/23/21 20:04	1
Perfluorodecanoic acid	<1.7		1.7	0.42	ng/L		09/22/21 16:42	09/23/21 20:04	1
Perfluorotridecanoic acid	<1.7		1.7	0.42	ng/L		09/22/21 16:42	09/23/21 20:04	1
Perfluorotetradecanoic acid	<1.7		1.7	0.42	ng/L		09/22/21 16:42	09/23/21 20:04	1
Perfluorobutanesulfonic acid	<1.7		1.7	0.42	ng/L		09/22/21 16:42	09/23/21 20:04	1
Perfluorohexanesulfonic acid	<1.7		1.7	0.42	ng/L		09/22/21 16:42	09/23/21 20:04	1
Perfluorooctanesulfonic acid	<1.7		1.7	0.42	ng/L		09/22/21 16:42	09/23/21 20:04	1
NEtFOSAA	<1.7		1.7	0.42	ng/L		09/22/21 16:42	09/23/21 20:04	1
NMeFOSAA	<1.7		1.7	0.42	ng/L		09/22/21 16:42	09/23/21 20:04	1
Perfluoroundecanoic acid	<1.7		1.7	0.42	ng/L		09/22/21 16:42	09/23/21 20:04	1
Perfluorododecanoic acid	<1.7		1.7	0.42	ng/L		09/22/21 16:42	09/23/21 20:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	89		70 - 130				09/22/21 16:42	09/23/21 20:04	1
13C2 PFDA	87		70 - 130				09/22/21 16:42	09/23/21 20:04	1
13C2 PFHxA	95		70 - 130				09/22/21 16:42	09/23/21 20:04	1

Surrogate Summary

Client: SUEZ Water Environmental Services Inc
 Project/Site: Newberry System

Job ID: 410-54773-1

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		d5NEFOS (70-130)	PFDA (70-130)	PFHxA (70-130)
410-54773-1	7670061 006 Eden Well	86	90	72
410-54773-3	7670061 007 Reeser Well 1	86	89	89
410-54773-5	7670061 008 Reeser Well 2	88	88	90
LCS 410-174298/2-A	Lab Control Sample	92	81	90
LCS D 410-174298/3-A	Lab Control Sample Dup	97	92	100
LLCS 410-174298/4-A	Lab Control Sample	90	82	94
MB 410-174298/1-A	Method Blank	98	90	101

Surrogate Legend
 d5NEFOS = d5-NEtFOSAA
 PFDA = 13C2 PFDA
 PFHxA = 13C2 PFHxA

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Matrix: Potable Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		d5NEFOS (70-130)	PFDA (70-130)	PFHxA (70-130)
410-54773-2	7670061 006 Eden Well FB	87	88	94
410-54773-4	7670061 007 Reeser Well 1 FB	87	85	94
410-54773-6	7670061 008 Reeser Well 2 FB	89	87	95

Surrogate Legend
 d5NEFOS = d5-NEtFOSAA
 PFDA = 13C2 PFDA
 PFHxA = 13C2 PFHxA

QC Sample Results

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-54773-1

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Lab Sample ID: MB 410-174298/1-A
Matrix: Drinking Water
Analysis Batch: 174606

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 174298

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanoic acid	<2.0		2.0	0.50	ng/L		09/22/21 16:42	09/23/21 16:11	1
Perfluoroheptanoic acid	<2.0		2.0	0.50	ng/L		09/22/21 16:42	09/23/21 16:11	1
Perfluorooctanoic acid	<2.0		2.0	0.50	ng/L		09/22/21 16:42	09/23/21 16:11	1
Perfluorononanoic acid	<2.0		2.0	0.50	ng/L		09/22/21 16:42	09/23/21 16:11	1
Perfluorodecanoic acid	<2.0		2.0	0.50	ng/L		09/22/21 16:42	09/23/21 16:11	1
Perfluorotridecanoic acid	<2.0		2.0	0.50	ng/L		09/22/21 16:42	09/23/21 16:11	1
Perfluorotetradecanoic acid	<2.0		2.0	0.50	ng/L		09/22/21 16:42	09/23/21 16:11	1
Perfluorobutanesulfonic acid	<2.0		2.0	0.50	ng/L		09/22/21 16:42	09/23/21 16:11	1
Perfluorohexanesulfonic acid	<2.0		2.0	0.50	ng/L		09/22/21 16:42	09/23/21 16:11	1
Perfluorooctanesulfonic acid	<2.0		2.0	0.50	ng/L		09/22/21 16:42	09/23/21 16:11	1
NEtFOSAA	<2.0		2.0	0.50	ng/L		09/22/21 16:42	09/23/21 16:11	1
NMeFOSAA	<2.0		2.0	0.50	ng/L		09/22/21 16:42	09/23/21 16:11	1
Perfluoroundecanoic acid	<2.0		2.0	0.50	ng/L		09/22/21 16:42	09/23/21 16:11	1
Perfluorododecanoic acid	<2.0		2.0	0.50	ng/L		09/22/21 16:42	09/23/21 16:11	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
d5-NEtFOSAA	98		70 - 130	09/22/21 16:42	09/23/21 16:11	1
13C2 PFDA	90		70 - 130	09/22/21 16:42	09/23/21 16:11	1
13C2 PFHxA	101		70 - 130	09/22/21 16:42	09/23/21 16:11	1

Lab Sample ID: LCS 410-174298/2-A
Matrix: Drinking Water
Analysis Batch: 174606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 174298

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Perfluorohexanoic acid	20.5	20.5		ng/L		100	70 - 130
Perfluoroheptanoic acid	20.5	20.4		ng/L		100	70 - 130
Perfluorooctanoic acid	20.5	19.7		ng/L		96	70 - 130
Perfluorononanoic acid	20.5	18.7		ng/L		91	70 - 130
Perfluorodecanoic acid	20.5	17.9		ng/L		87	70 - 130
Perfluorotridecanoic acid	20.5	16.8		ng/L		82	70 - 130
Perfluorotetradecanoic acid	20.5	17.1		ng/L		84	70 - 130
Perfluorobutanesulfonic acid	18.1	18.0		ng/L		99	70 - 130
Perfluorohexanesulfonic acid	18.7	18.3		ng/L		98	70 - 130
Perfluorooctanesulfonic acid	19.0	17.6		ng/L		93	70 - 130
NEtFOSAA	20.5	20.5		ng/L		100	70 - 130
NMeFOSAA	20.5	19.0		ng/L		93	70 - 130
Perfluoroundecanoic acid	20.5	17.7		ng/L		87	70 - 130
Perfluorododecanoic acid	20.5	17.3		ng/L		84	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	92		70 - 130
13C2 PFDA	81		70 - 130
13C2 PFHxA	90		70 - 130

QC Sample Results

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-54773-1

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

Lab Sample ID: LCSD 410-174298/3-A

Matrix: Drinking Water

Analysis Batch: 174606

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 174298

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Perfluorohexanoic acid	20.5	22.2		ng/L		108	70 - 130	8	30	
Perfluoroheptanoic acid	20.5	22.2		ng/L		108	70 - 130	8	30	
Perfluorooctanoic acid	20.5	21.7		ng/L		106	70 - 130	9	30	
Perfluorononanoic acid	20.5	20.1		ng/L		98	70 - 130	7	30	
Perfluorodecanoic acid	20.5	20.0		ng/L		98	70 - 130	11	30	
Perfluorotridecanoic acid	20.5	18.1		ng/L		88	70 - 130	7	30	
Perfluorotetradecanoic acid	20.5	18.8		ng/L		92	70 - 130	9	30	
Perfluorobutanesulfonic acid	18.1	18.7		ng/L		103	70 - 130	4	30	
Perfluorohexanesulfonic acid	18.7	19.0		ng/L		102	70 - 130	4	30	
Perfluorooctanesulfonic acid	19.0	18.3		ng/L		96	70 - 130	4	30	
NEtFOSAA	20.5	20.6		ng/L		101	70 - 130	1	30	
NMeFOSAA	20.5	20.1		ng/L		98	70 - 130	6	30	
Perfluoroundecanoic acid	20.5	19.1		ng/L		93	70 - 130	7	30	
Perfluorododecanoic acid	20.5	19.0		ng/L		93	70 - 130	9	30	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	97		70 - 130
13C2 PFDA	92		70 - 130
13C2 PFHxA	100		70 - 130

Lab Sample ID: LLCS 410-174298/4-A

Matrix: Drinking Water

Analysis Batch: 174606

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 174298

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Perfluorohexanoic acid	1.92	1.98	J	ng/L		103	50 - 150			
Perfluoroheptanoic acid	1.92	1.96	J	ng/L		102	50 - 150			
Perfluorooctanoic acid	1.92	2.03		ng/L		106	50 - 150			
Perfluorononanoic acid	1.92	1.79	J	ng/L		93	50 - 150			
Perfluorodecanoic acid	1.92	1.78	J	ng/L		93	50 - 150			
Perfluorotridecanoic acid	1.92	1.57	J	ng/L		82	50 - 150			
Perfluorotetradecanoic acid	1.92	1.57	J	ng/L		82	50 - 150			
Perfluorobutanesulfonic acid	1.70	1.70	J	ng/L		100	50 - 150			
Perfluorohexanesulfonic acid	1.75	1.74	J	ng/L		100	50 - 150			
Perfluorooctanesulfonic acid	1.78	1.73	J	ng/L		97	50 - 150			
NEtFOSAA	1.92	1.92	J	ng/L		100	50 - 150			
NMeFOSAA	1.92	1.80	J	ng/L		94	50 - 150			
Perfluoroundecanoic acid	1.92	1.70	J	ng/L		88	50 - 150			
Perfluorododecanoic acid	1.92	1.66	J	ng/L		86	50 - 150			

Surrogate	LLCS LLCS		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	90		70 - 130
13C2 PFDA	82		70 - 130
13C2 PFHxA	94		70 - 130

QC Association Summary

Client: SUEZ Water Environmental Services Inc
 Project/Site: Newberry System

Job ID: 410-54773-1

LCMS

Prep Batch: 174298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-54773-1	7670061 006 Eden Well	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-54773-2	7670061 006 Eden Well FB	Total/NA	Potable Water	EPA 537 Ver 1.1	
410-54773-3	7670061 007 Reeser Well 1	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-54773-4	7670061 007 Reeser Well 1 FB	Total/NA	Potable Water	EPA 537 Ver 1.1	
410-54773-5	7670061 008 Reeser Well 2	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-54773-6	7670061 008 Reeser Well 2 FB	Total/NA	Potable Water	EPA 537 Ver 1.1	
MB 410-174298/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-174298/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-174298/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LLCS 410-174298/4-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 174606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-54773-1	7670061 006 Eden Well	Total/NA	Drinking Water	EPA 537 Ver 1.1	174298
410-54773-2	7670061 006 Eden Well FB	Total/NA	Potable Water	EPA 537 Ver 1.1	174298
410-54773-3	7670061 007 Reeser Well 1	Total/NA	Drinking Water	EPA 537 Ver 1.1	174298
410-54773-4	7670061 007 Reeser Well 1 FB	Total/NA	Potable Water	EPA 537 Ver 1.1	174298
410-54773-5	7670061 008 Reeser Well 2	Total/NA	Drinking Water	EPA 537 Ver 1.1	174298
410-54773-6	7670061 008 Reeser Well 2 FB	Total/NA	Potable Water	EPA 537 Ver 1.1	174298
MB 410-174298/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	174298
LCS 410-174298/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	174298
LCSD 410-174298/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	174298
LLCS 410-174298/4-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	174298

Lab Chronicle

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-54773-1

Client Sample ID: 7670061 006 Eden Well

Lab Sample ID: 410-54773-1

Date Collected: 09/09/21 11:35

Matrix: Drinking Water

Date Received: 09/10/21 17:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			174298	09/22/21 16:42	AX9M	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	174606	09/23/21 19:06	Y6ZN	ELLE

Client Sample ID: 7670061 006 Eden Well FB

Lab Sample ID: 410-54773-2

Date Collected: 09/09/21 11:35

Matrix: Potable Water

Date Received: 09/10/21 17:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			174298	09/22/21 16:42	AX9M	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	174606	09/23/21 19:18	Y6ZN	ELLE

Client Sample ID: 7670061 007 Reeser Well 1

Lab Sample ID: 410-54773-3

Date Collected: 09/09/21 12:35

Matrix: Drinking Water

Date Received: 09/10/21 17:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			174298	09/22/21 16:42	AX9M	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	174606	09/23/21 19:29	Y6ZN	ELLE

Client Sample ID: 7670061 007 Reeser Well 1 FB

Lab Sample ID: 410-54773-4

Date Collected: 09/09/21 12:35

Matrix: Potable Water

Date Received: 09/10/21 17:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			174298	09/22/21 16:42	AX9M	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	174606	09/23/21 19:41	Y6ZN	ELLE

Client Sample ID: 7670061 008 Reeser Well 2

Lab Sample ID: 410-54773-5

Date Collected: 09/09/21 12:45

Matrix: Drinking Water

Date Received: 09/10/21 17:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			174298	09/22/21 16:42	AX9M	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	174606	09/23/21 19:52	Y6ZN	ELLE

Client Sample ID: 7670061 008 Reeser Well 2 FB

Lab Sample ID: 410-54773-6

Date Collected: 09/09/21 12:45

Matrix: Potable Water

Date Received: 09/10/21 17:07

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			174298	09/22/21 16:42	AX9M	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	174606	09/23/21 20:04	Y6ZN	ELLE

Laboratory References:

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

Accreditation/Certification Summary

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-54773-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-22

- 1
- 2
- 3
- 4
- 5
- 6
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- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-54773-1

Method	Method Description	Protocol	Laboratory
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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



Sample Summary

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-54773-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-54773-1	7670061 006 Eden Well	Drinking Water	09/09/21 11:35	09/10/21 17:07
410-54773-2	7670061 006 Eden Well FB	Potable Water	09/09/21 11:35	09/10/21 17:07
410-54773-3	7670061 007 Reeser Well 1	Drinking Water	09/09/21 12:35	09/10/21 17:07
410-54773-4	7670061 007 Reeser Well 1 FB	Potable Water	09/09/21 12:35	09/10/21 17:07
410-54773-5	7670061 008 Reeser Well 2	Drinking Water	09/09/21 12:45	09/10/21 17:07
410-54773-6	7670061 008 Reeser Well 2 FB	Potable Water	09/09/21 12:45	09/10/21 17:07

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Environmental Analysis Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 44297 Group #



410-54773 Chain of Custody

Client: SUEZ WATER PA				Matrix				For Lab Use Only																			
Project Name: Newberry System				<input type="checkbox"/> Tissue <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface				Preservation and Filtration Codes SF #: _____ SCR #: _____																			
Project Manager: Elizabeth Zanar				<input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Other: GAC Filtered Water				Total # of Containers PFAS (14) 537 v 1.1																			
Sampler: Penny Bumbarger				<input type="checkbox"/> Soil <input type="checkbox"/> Sediment																							
Phone #: 717-773-0185				Total # of Containers PFAS (14) 537 v 1.1				Preservation Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ P = H ₃ PO ₄ F = Field Filtered O = Other																			
State where samples were collected: PA		For Compliance: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Date Time Grab Composite				Remarks Quarterly Compliance																			
Sample Identification		Date		Time		Grab		Composite		Soil		Sediment		Tissue		Potable		NPDES		Other: GAC Filtered Water		Total # of Containers		PFAS (14) 537 v 1.1		Remarks	
006 Eden Well		9/9/21		1135		X																2		X			
FB - Eden Well		9/9/21		1135																		2		X			
007 Reeser Well 1		9/9/21		1235		X																2		X			
FB - Reeser Well 1		9/9/21		1235																		2		X			
008 Reeser Well 2		9/9/21		1245		X																2		X			
FB - Reeser Well 2		9/9/21		1245																		2		X			
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:		Date		Time		Received by:		Date		Time													
				Penny Bumbarger		9/10/21		1052		Lancaster Decker		9/10/21		1052													
Date results are needed:				Relinquished by:		Date		Time		Received by:		Date		Time													
Rush results requested by (please check): E-Mail <input checked="" type="checkbox"/> Phone <input type="checkbox"/>				Lancaster Decker		9/10/21		1707																			
E-mail Address: penny.bumbarger@suez.com				Relinquished by:		Date		Time		Received by:		Date		Time													
Phone: 717-773-0185																											
Data Package Options (please check if required) Type I (Validation/non-CLP) <input type="checkbox"/> MA MCP <input type="checkbox"/> Type III (Reduced non-CLP) <input type="checkbox"/> CT RCP <input type="checkbox"/> Type VI (Raw Data Only) <input type="checkbox"/> TX TRRP-13 <input type="checkbox"/> NJ DKQP <input type="checkbox"/> NYSDEC Category <input type="checkbox"/> A or <input type="checkbox"/> B				Relinquished by:		Date		Time		Received by:		Date		Time													
EDD Required? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, format: _____				Relinquished by Commercial Carrier:		Date		Time		Received by:		Date		Time													
										ICA		9/10/21		1707													
UPS _____ FedEx _____ Other _____				Temperature upon receipt		-1.1		°C																			

Not Frozen 7045
9/24/2021

Login Sample Receipt Checklist

Client: SUEZ Water Environmental Services Inc

Job Number: 410-54773-1

Login Number: 54773

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Cyms, Carolyn M

Question	Answer	Comment
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.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	

