


ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-64283-1
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:
12/2/2021 12:17:29 PM

Elizabeth Zanar, Project Manager
(717)556-7290
Elizabeth.Zanar@eurofinset.com

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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
12/2/2021 12:17:29 PM



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Definitions/Glossary

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

Job ID: 410-64283-1

Qualifiers

LCMS

Qualifier	Qualifier Description
E	Result exceeded calibration range.
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: 410-64283-1

Job ID: 410-64283-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-64283-1

Receipt

The samples were received on 11/19/2021 3:33 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 1.9°C

PFAS

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



Detection Summary

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

Job ID: 410-64283-1

Client Sample ID: 7670061 006 Eden Well

Lab Sample ID: 410-64283-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	6.9		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	4.7		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	10		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	5.5		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	4.9		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	10		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: 7670061 006 Eden Well FB

Lab Sample ID: 410-64283-2

No Detections.

Client Sample ID: 7670061 009 Susq Vill Well 1

Lab Sample ID: 410-64283-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	2.8		1.9	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	5.8		1.9	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	7.2		1.9	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	9.1		1.9	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: 7670061 009 Susq Vill Well 1 FB

Lab Sample ID: 410-64283-4

No Detections.

Client Sample ID: 7670061 010 Susq Vill Well 2

Lab Sample ID: 410-64283-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	2.5		1.9	0.47	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	4.9		1.9	0.47	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	6.1		1.9	0.47	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	7.5		1.9	0.47	ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: 7670061 010 Susq Vill Well 2 FB

Lab Sample ID: 410-64283-6

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: 410-64283-1

Client Sample ID: 7670061 006 Eden Well

Lab Sample ID: 410-64283-1

Date Collected: 11/16/21 10:40

Matrix: Drinking Water

Date Received: 11/19/21 15:33

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	6.9		1.8	0.45	ng/L		11/30/21 08:42	12/01/21 19:10	1
Perfluoroheptanoic acid	4.7		1.8	0.45	ng/L		11/30/21 08:42	12/01/21 19:10	1
Perfluorooctanoic acid	10		1.8	0.45	ng/L		11/30/21 08:42	12/01/21 19:10	1
Perfluorononanoic acid	<1.8		1.8	0.45	ng/L		11/30/21 08:42	12/01/21 19:10	1
Perfluorodecanoic acid	<1.8		1.8	0.45	ng/L		11/30/21 08:42	12/01/21 19:10	1
Perfluorotridecanoic acid	<1.8		1.8	0.45	ng/L		11/30/21 08:42	12/01/21 19:10	1
Perfluorotetradecanoic acid	<1.8		1.8	0.45	ng/L		11/30/21 08:42	12/01/21 19:10	1
Perfluorobutanesulfonic acid	5.5		1.8	0.45	ng/L		11/30/21 08:42	12/01/21 19:10	1
Perfluorohexanesulfonic acid	4.9		1.8	0.45	ng/L		11/30/21 08:42	12/01/21 19:10	1
Perfluorooctanesulfonic acid	10		1.8	0.45	ng/L		11/30/21 08:42	12/01/21 19:10	1
NEtFOSAA	<1.8		1.8	0.45	ng/L		11/30/21 08:42	12/01/21 19:10	1
NMeFOSAA	<1.8		1.8	0.45	ng/L		11/30/21 08:42	12/01/21 19:10	1
Perfluoroundecanoic acid	<1.8		1.8	0.45	ng/L		11/30/21 08:42	12/01/21 19:10	1
Perfluorododecanoic acid	<1.8		1.8	0.45	ng/L		11/30/21 08:42	12/01/21 19:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	97		70 - 130				11/30/21 08:42	12/01/21 19:10	1
13C2 PFDA	106		70 - 130				11/30/21 08:42	12/01/21 19:10	1
13C2 PFHxA	83		70 - 130				11/30/21 08:42	12/01/21 19:10	1

Client Sample ID: 7670061 006 Eden Well FB

Lab Sample ID: 410-64283-2

Date Collected: 11/16/21 10:40

Matrix: Potable Water

Date Received: 11/19/21 15:33

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 19:22	1
Perfluoroheptanoic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 19:22	1
Perfluorooctanoic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 19:22	1
Perfluorononanoic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 19:22	1
Perfluorodecanoic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 19:22	1
Perfluorotridecanoic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 19:22	1
Perfluorotetradecanoic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 19:22	1
Perfluorobutanesulfonic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 19:22	1
Perfluorohexanesulfonic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 19:22	1
Perfluorooctanesulfonic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 19:22	1
NEtFOSAA	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 19:22	1
NMeFOSAA	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 19:22	1
Perfluoroundecanoic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 19:22	1
Perfluorododecanoic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	102		70 - 130				11/30/21 08:42	12/01/21 19:22	1
13C2 PFDA	98		70 - 130				11/30/21 08:42	12/01/21 19:22	1
13C2 PFHxA	97		70 - 130				11/30/21 08:42	12/01/21 19:22	1

Client Sample Results

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

Job ID: 410-64283-1

Client Sample ID: 7670061 009 Susq Vill Well 1

Lab Sample ID: 410-64283-3

Date Collected: 11/16/21 11:15

Matrix: Drinking Water

Date Received: 11/19/21 15:33

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	2.8		1.9	0.46	ng/L		11/30/21 08:42	12/01/21 19:33	1
Perfluoroheptanoic acid	<1.9		1.9	0.46	ng/L		11/30/21 08:42	12/01/21 19:33	1
Perfluorooctanoic acid	5.8		1.9	0.46	ng/L		11/30/21 08:42	12/01/21 19:33	1
Perfluorononanoic acid	<1.9		1.9	0.46	ng/L		11/30/21 08:42	12/01/21 19:33	1
Perfluorodecanoic acid	<1.9		1.9	0.46	ng/L		11/30/21 08:42	12/01/21 19:33	1
Perfluorotridecanoic acid	<1.9		1.9	0.46	ng/L		11/30/21 08:42	12/01/21 19:33	1
Perfluorotetradecanoic acid	<1.9		1.9	0.46	ng/L		11/30/21 08:42	12/01/21 19:33	1
Perfluorobutanesulfonic acid	7.2		1.9	0.46	ng/L		11/30/21 08:42	12/01/21 19:33	1
Perfluorohexanesulfonic acid	<1.9		1.9	0.46	ng/L		11/30/21 08:42	12/01/21 19:33	1
Perfluorooctanesulfonic acid	9.1		1.9	0.46	ng/L		11/30/21 08:42	12/01/21 19:33	1
NEtFOSAA	<1.9		1.9	0.46	ng/L		11/30/21 08:42	12/01/21 19:33	1
NMeFOSAA	<1.9		1.9	0.46	ng/L		11/30/21 08:42	12/01/21 19:33	1
Perfluoroundecanoic acid	<1.9		1.9	0.46	ng/L		11/30/21 08:42	12/01/21 19:33	1
Perfluorododecanoic acid	<1.9		1.9	0.46	ng/L		11/30/21 08:42	12/01/21 19:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	85		70 - 130				11/30/21 08:42	12/01/21 19:33	1
13C2 PFDA	92		70 - 130				11/30/21 08:42	12/01/21 19:33	1
13C2 PFHxA	93		70 - 130				11/30/21 08:42	12/01/21 19:33	1

Client Sample ID: 7670061 009 Susq Vill Well 1 FB

Lab Sample ID: 410-64283-4

Date Collected: 11/16/21 11:15

Matrix: Potable Water

Date Received: 11/19/21 15:33

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		11/30/21 08:42	12/01/21 19:46	1
Perfluoroheptanoic acid	<1.7		1.7	0.43	ng/L		11/30/21 08:42	12/01/21 19:46	1
Perfluorooctanoic acid	<1.7		1.7	0.43	ng/L		11/30/21 08:42	12/01/21 19:46	1
Perfluorononanoic acid	<1.7		1.7	0.43	ng/L		11/30/21 08:42	12/01/21 19:46	1
Perfluorodecanoic acid	<1.7		1.7	0.43	ng/L		11/30/21 08:42	12/01/21 19:46	1
Perfluorotridecanoic acid	<1.7		1.7	0.43	ng/L		11/30/21 08:42	12/01/21 19:46	1
Perfluorotetradecanoic acid	<1.7		1.7	0.43	ng/L		11/30/21 08:42	12/01/21 19:46	1
Perfluorobutanesulfonic acid	<1.7		1.7	0.43	ng/L		11/30/21 08:42	12/01/21 19:46	1
Perfluorohexanesulfonic acid	<1.7		1.7	0.43	ng/L		11/30/21 08:42	12/01/21 19:46	1
Perfluorooctanesulfonic acid	<1.7		1.7	0.43	ng/L		11/30/21 08:42	12/01/21 19:46	1
NEtFOSAA	<1.7		1.7	0.43	ng/L		11/30/21 08:42	12/01/21 19:46	1
NMeFOSAA	<1.7		1.7	0.43	ng/L		11/30/21 08:42	12/01/21 19:46	1
Perfluoroundecanoic acid	<1.7		1.7	0.43	ng/L		11/30/21 08:42	12/01/21 19:46	1
Perfluorododecanoic acid	<1.7		1.7	0.43	ng/L		11/30/21 08:42	12/01/21 19:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	109		70 - 130				11/30/21 08:42	12/01/21 19:46	1
13C2 PFDA	103		70 - 130				11/30/21 08:42	12/01/21 19:46	1
13C2 PFHxA	101		70 - 130				11/30/21 08:42	12/01/21 19:46	1

Client Sample Results

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

Job ID: 410-64283-1

Client Sample ID: 7670061 010 Susq Vill Well 2

Lab Sample ID: 410-64283-5

Date Collected: 11/16/21 11:00

Matrix: Drinking Water

Date Received: 11/19/21 15:33

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	2.5		1.9	0.47	ng/L		11/30/21 08:42	12/01/21 19:57	1
Perfluoroheptanoic acid	<1.9		1.9	0.47	ng/L		11/30/21 08:42	12/01/21 19:57	1
Perfluorooctanoic acid	4.9		1.9	0.47	ng/L		11/30/21 08:42	12/01/21 19:57	1
Perfluorononanoic acid	<1.9		1.9	0.47	ng/L		11/30/21 08:42	12/01/21 19:57	1
Perfluorodecanoic acid	<1.9		1.9	0.47	ng/L		11/30/21 08:42	12/01/21 19:57	1
Perfluorotridecanoic acid	<1.9		1.9	0.47	ng/L		11/30/21 08:42	12/01/21 19:57	1
Perfluorotetradecanoic acid	<1.9		1.9	0.47	ng/L		11/30/21 08:42	12/01/21 19:57	1
Perfluorobutanesulfonic acid	6.1		1.9	0.47	ng/L		11/30/21 08:42	12/01/21 19:57	1
Perfluorohexanesulfonic acid	<1.9		1.9	0.47	ng/L		11/30/21 08:42	12/01/21 19:57	1
Perfluorooctanesulfonic acid	7.5		1.9	0.47	ng/L		11/30/21 08:42	12/01/21 19:57	1
NEtFOSAA	<1.9		1.9	0.47	ng/L		11/30/21 08:42	12/01/21 19:57	1
NMeFOSAA	<1.9		1.9	0.47	ng/L		11/30/21 08:42	12/01/21 19:57	1
Perfluoroundecanoic acid	<1.9		1.9	0.47	ng/L		11/30/21 08:42	12/01/21 19:57	1
Perfluorododecanoic acid	<1.9		1.9	0.47	ng/L		11/30/21 08:42	12/01/21 19:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	82		70 - 130				11/30/21 08:42	12/01/21 19:57	1
13C2 PFDA	88		70 - 130				11/30/21 08:42	12/01/21 19:57	1
13C2 PFHxA	90		70 - 130				11/30/21 08:42	12/01/21 19:57	1

Client Sample ID: 7670061 010 Susq Vill Well 2 FB

Lab Sample ID: 410-64283-6

Date Collected: 11/16/21 11:00

Matrix: Potable Water

Date Received: 11/19/21 15:33

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 20:09	1
Perfluoroheptanoic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 20:09	1
Perfluorooctanoic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 20:09	1
Perfluorononanoic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 20:09	1
Perfluorodecanoic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 20:09	1
Perfluorotridecanoic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 20:09	1
Perfluorotetradecanoic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 20:09	1
Perfluorobutanesulfonic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 20:09	1
Perfluorohexanesulfonic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 20:09	1
Perfluorooctanesulfonic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 20:09	1
NEtFOSAA	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 20:09	1
NMeFOSAA	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 20:09	1
Perfluoroundecanoic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 20:09	1
Perfluorododecanoic acid	<1.8		1.8	0.44	ng/L		11/30/21 08:42	12/01/21 20:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	105		70 - 130				11/30/21 08:42	12/01/21 20:09	1
13C2 PFDA	107		70 - 130				11/30/21 08:42	12/01/21 20:09	1
13C2 PFHxA	105		70 - 130				11/30/21 08:42	12/01/21 20:09	1

Surrogate Summary

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

Job ID: 410-64283-1

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)
410-64283-1	7670061 006 Eden Well	97	106	83
410-64283-3	7670061 009 Susq Vill Well 1	85	92	93
410-64283-5	7670061 010 Susq Vill Well 2	82	88	90
LCS 410-199549/2-A	Lab Control Sample	101	104	103
LCS 410-199549/3-A	Lab Control Sample Dup	102	106	103
LLCS 410-199549/4-A	Lab Control Sample	100	98	99
MB 410-199549/1-A	Method Blank	109	108	105

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)
410-64283-2	7670061 006 Eden Well FB	102	98	97
410-64283-4	7670061 009 Susq Vill Well 1 FB	109	103	101
410-64283-6	7670061 010 Susq Vill Well 2 FB	105	107	105

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: 410-64283-1

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Lab Sample ID: MB 410-199549/1-A

Matrix: Drinking Water

Analysis Batch: 200198

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 199549

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanoic acid	<2.0		2.0	0.50	ng/L		11/30/21 08:42	12/01/21 18:24	1
Perfluoroheptanoic acid	<2.0		2.0	0.50	ng/L		11/30/21 08:42	12/01/21 18:24	1
Perfluorooctanoic acid	<2.0		2.0	0.50	ng/L		11/30/21 08:42	12/01/21 18:24	1
Perfluorononanoic acid	<2.0		2.0	0.50	ng/L		11/30/21 08:42	12/01/21 18:24	1
Perfluorodecanoic acid	<2.0		2.0	0.50	ng/L		11/30/21 08:42	12/01/21 18:24	1
Perfluorotridecanoic acid	<2.0		2.0	0.50	ng/L		11/30/21 08:42	12/01/21 18:24	1
Perfluorotetradecanoic acid	<2.0		2.0	0.50	ng/L		11/30/21 08:42	12/01/21 18:24	1
Perfluorobutanesulfonic acid	<2.0		2.0	0.50	ng/L		11/30/21 08:42	12/01/21 18:24	1
Perfluorohexanesulfonic acid	<2.0		2.0	0.50	ng/L		11/30/21 08:42	12/01/21 18:24	1
Perfluorooctanesulfonic acid	<2.0		2.0	0.50	ng/L		11/30/21 08:42	12/01/21 18:24	1
NEtFOSAA	<2.0		2.0	0.50	ng/L		11/30/21 08:42	12/01/21 18:24	1
NMeFOSAA	<2.0		2.0	0.50	ng/L		11/30/21 08:42	12/01/21 18:24	1
Perfluoroundecanoic acid	<2.0		2.0	0.50	ng/L		11/30/21 08:42	12/01/21 18:24	1
Perfluorododecanoic acid	<2.0		2.0	0.50	ng/L		11/30/21 08:42	12/01/21 18:24	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
d5-NEtFOSAA	109		70 - 130	11/30/21 08:42	12/01/21 18:24	1
13C2 PFDA	108		70 - 130	11/30/21 08:42	12/01/21 18:24	1
13C2 PFHxA	105		70 - 130	11/30/21 08:42	12/01/21 18:24	1

Lab Sample ID: LCS 410-199549/2-A

Matrix: Drinking Water

Analysis Batch: 200198

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 199549

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Perfluorohexanoic acid	80.0	77.0		ng/L		96	70 - 130
Perfluoroheptanoic acid	80.0	81.6	E	ng/L		102	70 - 130
Perfluorooctanoic acid	80.0	81.8	E	ng/L		102	70 - 130
Perfluorononanoic acid	80.0	78.8		ng/L		98	70 - 130
Perfluorodecanoic acid	80.0	78.5		ng/L		98	70 - 130
Perfluorotridecanoic acid	80.0	80.9	E	ng/L		101	70 - 130
Perfluorotetradecanoic acid	80.0	80.0	E	ng/L		100	70 - 130
Perfluorobutanesulfonic acid	70.8	73.8	E	ng/L		104	70 - 130
Perfluorohexanesulfonic acid	73.0	78.8	E	ng/L		108	70 - 130
Perfluorooctanesulfonic acid	74.0	72.8		ng/L		98	70 - 130
NEtFOSAA	80.0	77.8		ng/L		97	70 - 130
NMeFOSAA	80.0	75.4		ng/L		94	70 - 130
Perfluoroundecanoic acid	80.0	77.6		ng/L		97	70 - 130
Perfluorododecanoic acid	80.0	79.4		ng/L		99	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	101		70 - 130
13C2 PFDA	104		70 - 130
13C2 PFHxA	103		70 - 130

QC Sample Results

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

Job ID: 410-64283-1

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

Lab Sample ID: LCSD 410-199549/3-A

Matrix: Drinking Water

Analysis Batch: 200198

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 199549

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid	80.0	79.2		ng/L		99	70 - 130	3	30
Perfluoroheptanoic acid	80.0	81.6	E	ng/L		102	70 - 130	0	30
Perfluorooctanoic acid	80.0	83.7	E	ng/L		105	70 - 130	2	30
Perfluorononanoic acid	80.0	79.8		ng/L		100	70 - 130	1	30
Perfluorodecanoic acid	80.0	79.6		ng/L		100	70 - 130	1	30
Perfluorotridecanoic acid	80.0	83.2	E	ng/L		104	70 - 130	3	30
Perfluorotetradecanoic acid	80.0	83.5	E	ng/L		104	70 - 130	4	30
Perfluorobutanesulfonic acid	70.8	76.1	E	ng/L		108	70 - 130	3	30
Perfluorohexanesulfonic acid	73.0	80.7	E	ng/L		111	70 - 130	2	30
Perfluorooctanesulfonic acid	74.0	55.8		ng/L		75	70 - 130	27	30
NEtFOSAA	80.0	80.3	E	ng/L		100	70 - 130	3	30
NMeFOSAA	80.0	78.4		ng/L		98	70 - 130	4	30
Perfluoroundecanoic acid	80.0	79.8		ng/L		100	70 - 130	3	30
Perfluorododecanoic acid	80.0	83.0	E	ng/L		104	70 - 130	4	30

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	102		70 - 130
13C2 PFDA	106		70 - 130
13C2 PFHxA	103		70 - 130

Lab Sample ID: LLCS 410-199549/4-A

Matrix: Drinking Water

Analysis Batch: 200198

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 199549

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid	1.92	1.59	J	ng/L		83	50 - 150		
Perfluoroheptanoic acid	1.92	1.69	J	ng/L		88	50 - 150		
Perfluorooctanoic acid	1.92	1.87	J	ng/L		97	50 - 150		
Perfluorononanoic acid	1.92	1.62	J	ng/L		84	50 - 150		
Perfluorodecanoic acid	1.92	1.53	J	ng/L		80	50 - 150		
Perfluorotridecanoic acid	1.92	1.61	J	ng/L		84	50 - 150		
Perfluorotetradecanoic acid	1.92	1.48	J	ng/L		77	50 - 150		
Perfluorobutanesulfonic acid	1.70	1.45	J	ng/L		85	50 - 150		
Perfluorohexanesulfonic acid	1.75	1.53	J	ng/L		87	50 - 150		
Perfluorooctanesulfonic acid	1.78	1.47	J	ng/L		83	50 - 150		
NEtFOSAA	1.92	1.56	J	ng/L		81	50 - 150		
NMeFOSAA	1.92	1.56	J	ng/L		81	50 - 150		
Perfluoroundecanoic acid	1.92	1.63	J	ng/L		85	50 - 150		
Perfluorododecanoic acid	1.92	1.56	J	ng/L		81	50 - 150		

Surrogate	LLCS LLCS		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	100		70 - 130
13C2 PFDA	98		70 - 130
13C2 PFHxA	99		70 - 130

QC Association Summary

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

Job ID: 410-64283-1

LCMS

Prep Batch: 199549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-64283-1	7670061 006 Eden Well	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-64283-2	7670061 006 Eden Well FB	Total/NA	Potable Water	EPA 537 Ver 1.1	
410-64283-3	7670061 009 Susq Vill Well 1	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-64283-4	7670061 009 Susq Vill Well 1 FB	Total/NA	Potable Water	EPA 537 Ver 1.1	
410-64283-5	7670061 010 Susq Vill Well 2	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-64283-6	7670061 010 Susq Vill Well 2 FB	Total/NA	Potable Water	EPA 537 Ver 1.1	
MB 410-199549/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-199549/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-199549/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LLCS 410-199549/4-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 200198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-64283-1	7670061 006 Eden Well	Total/NA	Drinking Water	EPA 537 Ver 1.1	199549
410-64283-2	7670061 006 Eden Well FB	Total/NA	Potable Water	EPA 537 Ver 1.1	199549
410-64283-3	7670061 009 Susq Vill Well 1	Total/NA	Drinking Water	EPA 537 Ver 1.1	199549
410-64283-4	7670061 009 Susq Vill Well 1 FB	Total/NA	Potable Water	EPA 537 Ver 1.1	199549
410-64283-5	7670061 010 Susq Vill Well 2	Total/NA	Drinking Water	EPA 537 Ver 1.1	199549
410-64283-6	7670061 010 Susq Vill Well 2 FB	Total/NA	Potable Water	EPA 537 Ver 1.1	199549
MB 410-199549/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	199549
LCS 410-199549/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	199549
LCSD 410-199549/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	199549
LLCS 410-199549/4-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	199549



Lab Chronicle

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

Job ID: 410-64283-1

Client Sample ID: 7670061 006 Eden Well

Lab Sample ID: 410-64283-1

Date Collected: 11/16/21 10:40

Matrix: Drinking Water

Date Received: 11/19/21 15:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			199549	11/30/21 08:42	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	200198	12/01/21 19:10	VK3G	ELLE

Client Sample ID: 7670061 006 Eden Well FB

Lab Sample ID: 410-64283-2

Date Collected: 11/16/21 10:40

Matrix: Potable Water

Date Received: 11/19/21 15:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			199549	11/30/21 08:42	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	200198	12/01/21 19:22	VK3G	ELLE

Client Sample ID: 7670061 009 Susq Vill Well 1

Lab Sample ID: 410-64283-3

Date Collected: 11/16/21 11:15

Matrix: Drinking Water

Date Received: 11/19/21 15:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			199549	11/30/21 08:42	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	200198	12/01/21 19:33	VK3G	ELLE

Client Sample ID: 7670061 009 Susq Vill Well 1 FB

Lab Sample ID: 410-64283-4

Date Collected: 11/16/21 11:15

Matrix: Potable Water

Date Received: 11/19/21 15:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			199549	11/30/21 08:42	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	200198	12/01/21 19:46	VK3G	ELLE

Client Sample ID: 7670061 010 Susq Vill Well 2

Lab Sample ID: 410-64283-5

Date Collected: 11/16/21 11:00

Matrix: Drinking Water

Date Received: 11/19/21 15:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			199549	11/30/21 08:42	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	200198	12/01/21 19:57	VK3G	ELLE

Client Sample ID: 7670061 010 Susq Vill Well 2 FB

Lab Sample ID: 410-64283-6

Date Collected: 11/16/21 11:00

Matrix: Potable Water

Date Received: 11/19/21 15:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			199549	11/30/21 08:42	RDL8	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	200198	12/01/21 20:09	VK3G	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: 410-64283-1

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

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Method Summary

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

Job ID: 410-64283-1

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: 410-64283-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-64283-1	7670061 006 Eden Well	Drinking Water	11/16/21 10:40	11/19/21 15:33
410-64283-2	7670061 006 Eden Well FB	Potable Water	11/16/21 10:40	11/19/21 15:33
410-64283-3	7670061 009 Susq Vill Well 1	Drinking Water	11/16/21 11:15	11/19/21 15:33
410-64283-4	7670061 009 Susq Vill Well 1 FB	Potable Water	11/16/21 11:15	11/19/21 15:33
410-64283-5	7670061 010 Susq Vill Well 2	Drinking Water	11/16/21 11:00	11/19/21 15:33
410-64283-6	7670061 010 Susq Vill Well 2 FB	Potable Water	11/16/21 11:00	11/19/21 15:33

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Lancaster Laboratories Environmental

Enviro



410-64283 Chain of Custody

Request/Chain of Custody

Acct. # 4420

Sample #

Client: SUEZ WATER PA		Matrix		Analyses Requested						For Lab Use Only		
Project Name: Newberry System		Site ID #:		Preservation and Filtration Codes						SF #: _____		
Project Manager: Elizabeth Zonar		P.O. #:		<input type="checkbox"/> Tissue <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Water <input type="checkbox"/> Other: GAC Filtered Water						SCR #: _____		
Sampler: Penny Bumbarger		PWSID #: 7670061								O		Preservation Codes
Phone #: 717-773-0185		Quote #: 219948A		Total # of Containers PFAS (14) 537 v 1.1						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"/>								Remarks		
Sample Identification		Collection		Grab		Composite		Quarterly Compliance				
		Date	Time									
006 Eden Well		11/16/21	1040	X								
FB - Eden Well		11/16/21	1040									
009 Susq Vill Well 1		11/16/21	1115	X		X	2	X				
FB - Susq Vill Well		11/16/21	1115				2	X				
010 Susq Vill Well 2		11/16/21	1100	X		X	2	X				
FB - Susq Vill Well 2		11/16/21	1100				2	X				
Turnaround Time Requested (TAT) (please check):				Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Relinquished by:		Date	Time	Received by:	Date	Time
(Rush TAT is subject to laboratory approval and surcharges.)						Penny Bumbarger		11/19/21	1144	[Signature]	11/19/21	1148
Date results are needed:				Rush results requested by (please check):		Relinquished by:		Date	Time	Received by:	Date	Time
				E-Mail <input checked="" type="checkbox"/> Phone <input type="checkbox"/>		Linda Dreck		11/19/21	1431			
E-mail Address: penny.bumbarger@suez.com				Phone: 717-773-0185		Relinquished by:		Date	Time	Received by:	Date	Time
Data Package Options (please check if required)						Relinquished by:		Date	Time	Received by:	Date	Time
Type I (Validation/non-CLP) <input type="checkbox"/>		MA MCP <input type="checkbox"/>				Relinquished by:		Date	Time	Received by:	Date	Time
Type III (Reduced non-CLP) <input type="checkbox"/>		CT RCP <input type="checkbox"/>				Relinquished by:		Date	Time	Received by:	Date	Time
Type VI (Raw Data Only) <input type="checkbox"/>		TX TRRP-13 <input type="checkbox"/>				Relinquished by:		Date	Time	Received by:	Date	Time
NJ DKQP <input type="checkbox"/>		NYSDEC Category <input type="checkbox"/> A or <input type="checkbox"/> B				Relinquished by Commercial Carrier:				[Signature]	11/19/21	1533
EDD Required? Yes <input type="checkbox"/> No <input type="checkbox"/>				If yes, format: _____		UPS _____ FedEx _____ Other _____				Temperature upon receipt 1.9 °C		

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Login Sample Receipt Checklist

Client: SUEZ Water Environmental Services Inc

Job Number: 410-64283-1

Login Number: 64283

List Source: Eurofins Lancaster Laboratories Env, LLC

List Number: 1

Creator: Slagle, Vaiyanna

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	