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ANALYTICAL REPORT

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

Laboratory Job ID: 410-32321-1
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

Elizabeth M. Zanar

Authorized for release by:
3/24/2021 6:42:27 AM

Elizabeth Zanar, Project Manager
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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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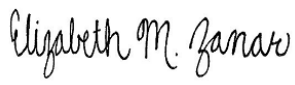

Elizabeth Zanar
Project Manager
3/24/2021 6:42:27 AM

Table of Contents

Definitions/Glossary

Client: SUEZ Water Environmental Services Inc
Job ID: 410-32321-1
Project/Site: Newberry System

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.
¤	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

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

Job ID: 410-32321-1

Job ID: 410-32321-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-32321-1

Receipt

The samples were received on 3/12/2021 11:30 AM. 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 0.9°C

LCMS

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: 410-32321-1

Client Sample ID: 7670061 009 Susq Vill Well 1 — Lab Sample ID: 410-32321-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	2.8		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	4.9		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	4.9		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	7.8		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: 7670061 009 Susq Vill Well 1 FB — Lab Sample ID: 410-32321-2

No Detections.

Client Sample ID: 7670061 010 Susq Vill Well 2 — Lab Sample ID: 410-32321-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	2.8		1.8	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	4.8		1.8	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	4.8		1.8	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	7.7		1.8	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA

Client Sample ID: 7670061 010 Susq Vill Well 2 FB — Lab Sample ID: 410-32321-4

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: 7670061 009 Susq Vill Well 1

Lab Sample ID: 410-32321-1

Date Collected: 03/11/21 10:40

Matrix: Drinking Water

Date Received: 03/12/21 11:30

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**		1.8	0.45	ng/L		03/22/21 07:21	03/23/21 14:09	1
Perfluoroheptanoic acid	<1.8		1.8	0.45	ng/L		03/22/21 07:21	03/23/21 14:09	1
Perfluorooctanoic acid	**4.9**		1.8	0.45	ng/L		03/22/21 07:21	03/23/21 14:09	1
Perfluorononanoic acid	<1.8		1.8	0.45	ng/L		03/22/21 07:21	03/23/21 14:09	1
Perfluorodecanoic acid	<1.8		1.8	0.45	ng/L		03/22/21 07:21	03/23/21 14:09	1
Perfluorotridecanoic acid	<1.8		1.8	0.45	ng/L		03/22/21 07:21	03/23/21 14:09	1
Perfluorotetradecanoic acid	<1.8		1.8	0.45	ng/L		03/22/21 07:21	03/23/21 14:09	1
Perfluorobutanesulfonic acid	**4.9**		1.8	0.45	ng/L		03/22/21 07:21	03/23/21 14:09	1
Perfluorohexanesulfonic acid	<1.8		1.8	0.45	ng/L		03/22/21 07:21	03/23/21 14:09	1
Perfluorooctanesulfonic acid	**7.8**		1.8	0.45	ng/L		03/22/21 07:21	03/23/21 14:09	1
NEtFOSAA	<1.8		1.8	0.45	ng/L		03/22/21 07:21	03/23/21 14:09	1
NMeFOSAA	<1.8		1.8	0.45	ng/L		03/22/21 07:21	03/23/21 14:09	1
Perfluoroundecanoic acid	<1.8		1.8	0.45	ng/L		03/22/21 07:21	03/23/21 14:09	1
Perfluorododecanoic acid	<1.8		1.8	0.45	ng/L		03/22/21 07:21	03/23/21 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*92*		*70 - 130*	*03/22/21 07:21*	*03/23/21 14:09*	*1*
13C2 PFDA	*93*		*70 - 130*	*03/22/21 07:21*	*03/23/21 14:09*	*1*
13C2 PFHxA	*86*		*70 - 130*	*03/22/21 07:21*	*03/23/21 14:09*	*1*

Client Sample ID: 7670061 009 Susq Vill Well 1 FB

Lab Sample ID: 410-32321-2

Date Collected: 03/11/21 10:40

Matrix: Potable Water

Date Received: 03/12/21 11:30

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	0.46	ng/L		03/22/21 07:21	03/23/21 14:21	1
Perfluoroheptanoic acid	<1.8		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:21	1
Perfluorooctanoic acid	<1.8		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:21	1
Perfluorononanoic acid	<1.8		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:21	1
Perfluorodecanoic acid	<1.8		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:21	1
Perfluorotridecanoic acid	<1.8		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:21	1
Perfluorotetradecanoic acid	<1.8		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:21	1
Perfluorobutanesulfonic acid	<1.8		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:21	1
Perfluorohexanesulfonic acid	<1.8		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:21	1
Perfluorooctanesulfonic acid	<1.8		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:21	1
NEtFOSAA	<1.8		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:21	1
NMeFOSAA	<1.8		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:21	1
Perfluoroundecanoic acid	<1.8		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:21	1
Perfluorododecanoic acid	<1.8		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*84*		*70 - 130*	*03/22/21 07:21*	*03/23/21 14:21*	*1*
13C2 PFDA	*84*		*70 - 130*	*03/22/21 07:21*	*03/23/21 14:21*	*1*
13C2 PFHxA	*87*		*70 - 130*	*03/22/21 07:21*	*03/23/21 14:21*	*1*

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

Job ID: 410-32321-1

Client Sample ID: 7670061 010 Susq Vill Well 2

Lab Sample ID: 410-32321-3

Date Collected: 03/11/21 10:30
Date Received: 03/12/21 11:30

Matrix: Drinking Water

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**		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:32	1
Perfluoroheptanoic acid	<1.8		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:32	1
Perfluorooctanoic acid	**4.8**		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:32	1
Perfluorononanoic acid	<1.8		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:32	1
Perfluorodecanoic acid	<1.8		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:32	1
Perfluorotridecanoic acid	<1.8		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:32	1
Perfluorotetradecanoic acid	<1.8		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:32	1
Perfluorobutanesulfonic acid	**4.8**		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:32	1
Perfluorohexanesulfonic acid	<1.8		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:32	1
Perfluorooctanesulfonic acid	**7.7**		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:32	1
NEtFOSAA	<1.8		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:32	1
NMeFOSAA	<1.8		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:32	1
Perfluoroundecanoic acid	<1.8		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:32	1
Perfluorododecanoic acid	<1.8		1.8	0.46	ng/L		03/22/21 07:21	03/23/21 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*96*		*70 - 130*	*03/22/21 07:21*	*03/23/21 14:32*	*1*
13C2 PFDA	*92*		*70 - 130*	*03/22/21 07:21*	*03/23/21 14:32*	*1*
13C2 PFHxA	*86*		*70 - 130*	*03/22/21 07:21*	*03/23/21 14:32*	*1*

Client Sample ID: 7670061 010 Susq Vill Well 2 FB

Lab Sample ID: 410-32321-4

Date Collected: 03/11/21 10:30
Date Received: 03/12/21 11:30

Matrix: Potable Water

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.9		1.9	0.46	ng/L		03/22/21 07:21	03/23/21 14:44	1
Perfluoroheptanoic acid	<1.9		1.9	0.46	ng/L		03/22/21 07:21	03/23/21 14:44	1
Perfluorooctanoic acid	<1.9		1.9	0.46	ng/L		03/22/21 07:21	03/23/21 14:44	1
Perfluorononanoic acid	<1.9		1.9	0.46	ng/L		03/22/21 07:21	03/23/21 14:44	1
Perfluorodecanoic acid	<1.9		1.9	0.46	ng/L		03/22/21 07:21	03/23/21 14:44	1
Perfluorotridecanoic acid	<1.9		1.9	0.46	ng/L		03/22/21 07:21	03/23/21 14:44	1
Perfluorotetradecanoic acid	<1.9		1.9	0.46	ng/L		03/22/21 07:21	03/23/21 14:44	1
Perfluorobutanesulfonic acid	<1.9		1.9	0.46	ng/L		03/22/21 07:21	03/23/21 14:44	1
Perfluorohexanesulfonic acid	<1.9		1.9	0.46	ng/L		03/22/21 07:21	03/23/21 14:44	1
Perfluorooctanesulfonic acid	<1.9		1.9	0.46	ng/L		03/22/21 07:21	03/23/21 14:44	1
NEtFOSAA	<1.9		1.9	0.46	ng/L		03/22/21 07:21	03/23/21 14:44	1
NMeFOSAA	<1.9		1.9	0.46	ng/L		03/22/21 07:21	03/23/21 14:44	1
Perfluoroundecanoic acid	<1.9		1.9	0.46	ng/L		03/22/21 07:21	03/23/21 14:44	1
Perfluorododecanoic acid	<1.9		1.9	0.46	ng/L		03/22/21 07:21	03/23/21 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*87*		*70 - 130*	*03/22/21 07:21*	*03/23/21 14:44*	*1*
13C2 PFDA	*83*		*70 - 130*	*03/22/21 07:21*	*03/23/21 14:44*	*1*
13C2 PFHxA	*88*		*70 - 130*	*03/22/21 07:21*	*03/23/21 14:44*	*1*

Surrogate Summary

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

Job ID: 410-32321-1

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		d5NEFOS	PFDA	PFHxA
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
410-32321-1	7670061 009 Susq Vill Well 1	92	93	86
410-32321-3	7670061 010 Susq Vill Well 2	96	92	86
LCS 410-105505/2-A	Lab Control Sample	88	81	90
LCSD 410-105505/3-A	Lab Control Sample Dup	89	87	93
LLCS 410-105505/4-A	Lab Control Sample	84	83	92
MB 410-105505/1-A	Method Blank	83	79	83

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

		Percent Surrogate Recovery (Acceptance Limits)		
		d5NEFOS	PFDA	PFHxA
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
410-32321-2	7670061 009 Susq Vill Well 1 FB	84	84	87
410-32321-4	7670061 010 Susq Vill Well 2 FB	87	83	88

Surrogate Legend

d5NEFOS = d5-NEtFOSAA

PFDA = 13C2 PFDA

PFHxA = 13C2 PFHxA

Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Lab Sample ID: MB 410-105505/1-A
Matrix: Drinking Water
Analysis Batch: 106118

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 105505

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0	0.50	ng/L		03/22/21 07:21	03/23/21 12:38	1
Perfluoroheptanoic acid	<2.0		2.0	0.50	ng/L		03/22/21 07:21	03/23/21 12:38	1
Perfluorooctanoic acid	<2.0		2.0	0.50	ng/L		03/22/21 07:21	03/23/21 12:38	1
Perfluorononanoic acid	<2.0		2.0	0.50	ng/L		03/22/21 07:21	03/23/21 12:38	1
Perfluorodecanoic acid	<2.0		2.0	0.50	ng/L		03/22/21 07:21	03/23/21 12:38	1
Perfluorotridecanoic acid	<2.0		2.0	0.50	ng/L		03/22/21 07:21	03/23/21 12:38	1
Perfluorotetradecanoic acid	<2.0		2.0	0.50	ng/L		03/22/21 07:21	03/23/21 12:38	1
Perfluorobutanesulfonic acid	<2.0		2.0	0.50	ng/L		03/22/21 07:21	03/23/21 12:38	1
Perfluorohexanesulfonic acid	<2.0		2.0	0.50	ng/L		03/22/21 07:21	03/23/21 12:38	1
Perfluorooctanesulfonic acid	<2.0		2.0	0.50	ng/L		03/22/21 07:21	03/23/21 12:38	1
NEtFOSAA	<2.0		2.0	0.50	ng/L		03/22/21 07:21	03/23/21 12:38	1
NMeFOSAA	<2.0		2.0	0.50	ng/L		03/22/21 07:21	03/23/21 12:38	1
Perfluoroundecanoic acid	<2.0		2.0	0.50	ng/L		03/22/21 07:21	03/23/21 12:38	1
Perfluorododecanoic acid	<2.0		2.0	0.50	ng/L		03/22/21 07:21	03/23/21 12:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*83*		*70 - 130*	*03/22/21 07:21*	*03/23/21 12:38*	*1*
13C2 PFDA	*79*		*70 - 130*	*03/22/21 07:21*	*03/23/21 12:38*	*1*
13C2 PFHxA	*83*		*70 - 130*	*03/22/21 07:21*	*03/23/21 12:38*	*1*

Lab Sample ID: LCS 410-105505/2-A
Matrix: Drinking Water
Analysis Batch: 106118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	20.5	17.0		ng/L		83	70 - 130
Perfluoroheptanoic acid	20.5	16.4		ng/L		80	70 - 130
Perfluorooctanoic acid	20.5	15.8		ng/L		77	70 - 130
Perfluorononanoic acid	20.5	15.9		ng/L		78	70 - 130
Perfluorodecanoic acid	20.5	15.5		ng/L		76	70 - 130
Perfluorotridecanoic acid	20.5	14.7		ng/L		72	70 - 130
Perfluorotetradecanoic acid	20.5	15.4		ng/L		75	70 - 130
Perfluorobutanesulfonic acid	18.1	16.4		ng/L		91	70 - 130
Perfluorohexanesulfonic acid	18.7	16.4		ng/L		88	70 - 130
Perfluorooctanesulfonic acid	19.0	16.0		ng/L		85	70 - 130
NEtFOSAA	20.5	17.8		ng/L		87	70 - 130
NMeFOSAA	20.5	16.9		ng/L		83	70 - 130
Perfluoroundecanoic acid	20.5	14.7		ng/L		72	70 - 130
Perfluorododecanoic acid	20.5	15.1		ng/L		74	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*88*		*70 - 130*
13C2 PFDA	*81*		*70 - 130*
13C2 PFHxA	*90*		*70 - 130*

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

Lab Sample ID: LCSD 410-105505/3-A
Matrix: Drinking Water
Analysis Batch: 106118

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 105505

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			20.5	18.2		ng/L		89	70 - 130	7	30
Perfluoroheptanoic acid			20.5	17.4		ng/L		85	70 - 130	6	30
Perfluorooctanoic acid			20.5	17.3		ng/L		84	70 - 130	9	30
Perfluorononanoic acid			20.5	17.1		ng/L		84	70 - 130	7	30
Perfluorodecanoic acid			20.5	16.6		ng/L		81	70 - 130	7	30
Perfluorotridecanoic acid			20.5	15.8		ng/L		77	70 - 130	7	30
Perfluorotetradecanoic acid			20.5	15.7		ng/L		77	70 - 130	2	30
Perfluorobutanesulfonic acid			18.1	15.3		ng/L		85	70 - 130	7	30
Perfluorohexanesulfonic acid			18.7	15.4		ng/L		82	70 - 130	6	30
Perfluorooctanesulfonic acid			19.0	16.0		ng/L		84	70 - 130	0	30
NEtFOSAA			20.5	17.8		ng/L		87	70 - 130	0	30
NMeFOSAA			20.5	16.9		ng/L		82	70 - 130	0	30
Perfluoroundecanoic acid			20.5	16.1		ng/L		79	70 - 130	10	30
Perfluorododecanoic acid			20.5	15.4		ng/L		75	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*89*		*70 - 130*
13C2 PFDA	*87*		*70 - 130*
13C2 PFHxA	*93*		*70 - 130*

Lab Sample ID: LLCS 410-105505/4-A
Matrix: Drinking Water
Analysis Batch: 106118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 105505

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid			1.92	1.65	J	ng/L		86	50 - 150
Perfluoroheptanoic acid			1.92	1.50	J	ng/L		78	50 - 150
Perfluorooctanoic acid			1.92	1.53	J	ng/L		80	50 - 150
Perfluorononanoic acid			1.92	1.46	J	ng/L		76	50 - 150
Perfluorodecanoic acid			1.92	1.54	J	ng/L		80	50 - 150
Perfluorotridecanoic acid			1.92	1.34	J	ng/L		70	50 - 150
Perfluorotetradecanoic acid			1.92	1.34	J	ng/L		70	50 - 150
Perfluorobutanesulfonic acid			1.70	1.47	J	ng/L		87	50 - 150
Perfluorohexanesulfonic acid			1.75	1.44	J	ng/L		82	50 - 150
Perfluorooctanesulfonic acid			1.78	1.49	J	ng/L		84	50 - 150
NEtFOSAA			1.92	1.66	J	ng/L		87	50 - 150
NMeFOSAA			1.92	1.49	J	ng/L		78	50 - 150
Perfluoroundecanoic acid			1.92	1.42	J	ng/L		74	50 - 150
Perfluorododecanoic acid			1.92	1.29	J	ng/L		67	50 - 150

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
d5-NEtFOSAA	*84*		*70 - 130*
13C2 PFDA	*83*		*70 - 130*
13C2 PFHxA	*92*		*70 - 130*

QC Association Summary

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

Job ID: 410-32321-1

LCMS

Prep Batch: 105505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-32321-1	7670061 009 Susq Vill Well 1	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-32321-2	7670061 009 Susq Vill Well 1 FB	Total/NA	Potable Water	EPA 537 Ver 1.1	
410-32321-3	7670061 010 Susq Vill Well 2	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-32321-4	7670061 010 Susq Vill Well 2 FB	Total/NA	Potable Water	EPA 537 Ver 1.1	
MB 410-105505/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-105505/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-105505/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LLCS 410-105505/4-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	

Analysis Batch: 106118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-32321-1	7670061 009 Susq Vill Well 1	Total/NA	Drinking Water	EPA 537 Ver 1.1	105505
410-32321-2	7670061 009 Susq Vill Well 1 FB	Total/NA	Potable Water	EPA 537 Ver 1.1	105505
410-32321-3	7670061 010 Susq Vill Well 2	Total/NA	Drinking Water	EPA 537 Ver 1.1	105505
410-32321-4	7670061 010 Susq Vill Well 2 FB	Total/NA	Potable Water	EPA 537 Ver 1.1	105505
MB 410-105505/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	105505
LCS 410-105505/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	105505
LCSD 410-105505/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	105505
LLCS 410-105505/4-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	105505

Lab Chronicle

Client: SUEZ Water Environmental Services Inc
Job ID: 410-32321-1
Project/Site: Newberry System

Client Sample ID: 7670061 009 Susq Vill Well 1
Lab Sample ID: 410-32321-1
Date Collected: 03/11/21 10:40
Matrix: Drinking Water
Date Received: 03/12/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			105505	03/22/21 07:21	W5MU	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	106118	03/23/21 14:09	PY4D	ELLE

Client Sample ID: 7670061 009 Susq Vill Well 1 FB
Lab Sample ID: 410-32321-2
Date Collected: 03/11/21 10:40
Matrix: Potable Water
Date Received: 03/12/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			105505	03/22/21 07:21	W5MU	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	106118	03/23/21 14:21	PY4D	ELLE

Client Sample ID: 7670061 010 Susq Vill Well 2
Lab Sample ID: 410-32321-3
Date Collected: 03/11/21 10:30
Matrix: Drinking Water
Date Received: 03/12/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			105505	03/22/21 07:21	W5MU	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	106118	03/23/21 14:32	PY4D	ELLE

Client Sample ID: 7670061 010 Susq Vill Well 2 FB
Lab Sample ID: 410-32321-4
Date Collected: 03/11/21 10:30
Matrix: Potable Water
Date Received: 03/12/21 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			105505	03/22/21 07:21	W5MU	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	106118	03/23/21 14:44	PY4D	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
Job ID: 410-32321-1
Project/Site: Newberry System

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

Method Summary

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

Job ID: 410-32321-1

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: 410-32321-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-32321-1	7670061 009 Susq Vill Well 1	Drinking Water	03/11/21 10:40	03/12/21 11:30	
410-32321-2	7670061 009 Susq Vill Well 1 FB	Potable Water	03/11/21 10:40	03/12/21 11:30	
410-32321-3	7670061 010 Susq Vill Well 2	Drinking Water	03/11/21 10:30	03/12/21 11:30	
410-32321-4	7670061 010 Susq Vill Well 2 FB	Potable Water	03/11/21 10:30	03/12/21 11:30	

Environmental Analysis Requ[...]ody

410-32321 Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 44297 Group # ____ Sample # ____

Client: **SUEZ WATER PA**		
Project Name: Newberry System	Site ID #:	
Project Manager: Elizabeth Zanar	P.O. #:	
Sampler: Penny Bumbarger	PWSID #: 7670061	
Phone #: 717-773-0185	Quote #: 219948A	
State where samples were collected: **PA**	For Compliance: Yes ☑ No ☐	

Matrix: Soil ☐ Sediment ☐ Tissue ☐ | Water: Potable ☐ Ground ☑ NPDES ☐ Surface ☐ | Other: GAC Filtered Water

Analyses Requested — Preservation and Filtration Codes: O

For Lab Use Only: SF #: ____ SCR #: ____

Preservation Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, P = H_3PO_4, F = Field Filtered, O = Other

Sample Identification	Date	Time	Grab	Composite	Soil	Water	Other:	Total # of Containers	PFAS (14) 537 v 1.1	Remarks
009 Susq Vill Well 1	3/11/21	1040	X			X		2	X	Quarterly Compliance
FB - Susq Vill Well	3/11/21	1040						2	X	
Batch QC - Susq Vill Well 1	3/11/21	1040	X			X		1	X	
010 Susq Vill Well 2	3/11/21	1030	X			X		2	X	
FB - Susq Vill Well 2	3/11/21	1030						2	X	
Batch QC - Susq Vill Well 2	3/11/21	1030	X			X		1	X	

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: penny.bumbarger@suez.com

Phone: 717-773-0185

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category	☐ A or ☐ B

EDD Required? Yes ☐ No ☐ If yes, format: ____

Relinquished by:	Date	Time	Received by:	Date	Time
Penny Bumbarger	3/12/2021	0950	[signature]	3-12-21	0950
[signature]	3/12/21	1109			
			Julissa R	3/12/21	11:30

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other X

Temperature upon receipt 0.9 °C

Login Sample Receipt Checklist

Client: SUEZ Water Environmental Services Inc

Job Number: 410-32321-1

Login Number: 32321

List Source: Eurofins Lancaster Laboratories Env

List Number: 1

Creator: Jeremiah, Cory T

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	N/A	