



## ANALYSIS REPORT

Prepared by:

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Prepared for:

Suez Water Pennsylvania  
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Harrisburg PA 17112

Report Date: January 21, 2020 15:17

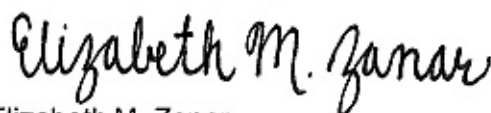
### Project: Newberry System

Account #: 44297  
Group Number: 2080541  
State of Sample Origin: PA

Electronic Copy To Suez Water Pennsylvania  
Electronic Copy To Suez Water Pennsylvania

Attn: Penny Bumbarger  
Attn: Shawn Wiley

Respectfully Submitted,



Elizabeth M. Zanar  
Project Manager

(717) 556-7290

To view our laboratory's current scopes of accreditation please go to <https://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/certifications-and-accreditations-eurofins-lancaster-laboratories-environmental/> . Historical copies may be requested through your project manager.



## SAMPLE INFORMATION

<u>Client Sample Description</u>	<u>Sample Collection Date/Time</u>	<u>ELLE#</u>
7670061 001 Playground Well	12/19/2019 10:55	1229024
7670061 001 Playground Well FB	12/19/2019 10:55	1229025
7670061 005 Conley Well Grab Water	12/19/2019 11:00	1229026
7670061 005 Conley Well FB Grab Water	12/19/2019 11:00	1229027
7670061 301s Conley betw Lead & Lag	12/19/2019 10:45	1229028
7670061 301s Conley betw Lead & Lag FB	12/19/2019 10:45	1229029
7670061 301s Conley Lead Vessel 1/2 Way Port	12/19/2019 10:50	1229030
7670061 301s Conley Lead Vessel 1/2 Way Port FB	12/19/2019 10:50	1229031
7670061 301s Conley After Lag Vessel	12/19/2019 10:40	1229032
7670061 301s Conley After Lag Vessel FB	12/19/2019 10:40	1229033
7670061 002 Coppersmith Well	12/19/2019 09:40	1229034
7670061 002 Coppersmith Well FB	12/19/2019 09:40	1229035
7670061 003 DuPont Well	12/19/2019 10:15	1229036
7670061 003 DuPont Well FB	12/19/2019 10:15	1229037
7670061 302s DuPont betw Lead & Lag	12/19/2019 10:05	1229038
7670061 302s DuPont betw Lead & Lag FB	12/19/2019 10:05	1229039
7670061 302s DuPont Lead Vessel 1/2 Way	12/19/2019 10:10	1229040
7670061 302s DuPont Lead Vessel 1/2 Way FB	12/19/2019 10:10	1229041
7670061 302s DuPont After Lag Vessel	12/19/2019 10:00	1229042
7670061 302s DuPont After Lag Vessel FB	12/19/2019 10:00	1229043
7670061 101 Conley EP Grab Water	12/19/2019 10:30	1229044
7670061 101 Conley EP FB Grab Water	12/19/2019 10:30	1229045
7670061 102 DuPont EP	12/19/2019 09:55	1229046
7670061 102 DuPont EP FB	12/19/2019 09:55	1229047

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

**Sample Description:** 7670061 001 Playground Well  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: EW 1229024  
ELLE Group #: 2080541  
Matrix: Water

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 10:55

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	< 1.7	1.7	0.44	1
14070	NMeFOSAA NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	< 1.7	1.7	0.44	1
14070	Perfluorobutanesulfonic acid	375-73-5	3.5	1.7	0.44	1
14070	Perfluorodecanoic acid	335-76-2	< 1.7	1.7	0.44	1
14070	Perfluorododecanoic acid	307-55-1	< 1.7	1.7	0.44	1
14070	Perfluoroheptanoic acid	375-85-9	2.5	1.7	0.44	1
14070	Perfluorohexanesulfonic acid	355-46-4	5.2	1.7	0.44	1
14070	Perfluorohexanoic acid	307-24-4	9.6	1.7	0.44	1
14070	Perfluorononanoic acid	375-95-1	< 1.7	1.7	0.44	1
14070	Perfluorooctanesulfonic acid	1763-23-1	11	1.7	0.44	1
14070	Perfluorooctanoic acid	335-67-1	5.9	1.7	0.44	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.7	1.7	0.44	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.7	1.7	0.44	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.7	1.7	0.44	1

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	19360022	12/31/2019 19:45	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19360022	12/26/2019 18:00	Anthony C Polaski	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** 7670061 001 Playground Well FB  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: PW 1229025  
ELLE Group #: 2080541  
Matrix: Water

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 10:55

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	< 1.8	1.8	0.45	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	< 1.8	1.8	0.45	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonic acid	375-73-5	< 1.8	1.8	0.45	1
14070	Perfluorodecanoic acid	335-76-2	< 1.8	1.8	0.45	1
14070	Perfluorododecanoic acid	307-55-1	< 1.8	1.8	0.45	1
14070	Perfluoroheptanoic acid	375-85-9	< 1.8	1.8	0.45	1
14070	Perfluorohexanesulfonic acid	355-46-4	< 1.8	1.8	0.45	1
14070	Perfluorohexanoic acid	307-24-4	< 1.8	1.8	0.45	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.45	1
14070	Perfluorooctanesulfonic acid	1763-23-1	< 1.8	1.8	0.45	1
14070	Perfluorooctanoic acid	335-67-1	< 1.8	1.8	0.45	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.8	1.8	0.45	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.8	1.8	0.45	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.8	1.8	0.45	1

The holding time was not met. Per client request, the sample was placed on hold. When released for analysis, the holding time had already expired.

The recovery for the internal standard d3-NMeFOSAA is outside of QC acceptance limits in the laboratory fortified blank duplicate (LFBD).

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	20006008	01/08/2020 05:06	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20006008	01/06/2020 18:00	Anthony C Polaski	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** 7670061 005 Conley Well Grab Water  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: EW 1229026  
ELLE Group #: 2080541  
Matrix: Water

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 11:00

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	< 1.8	1.8	0.46	1
14070	NMeFOSAA NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	< 1.8	1.8	0.46	1
14070	Perfluorobutanesulfonic acid	375-73-5	< 1.8	1.8	0.46	1
14070	Perfluorodecanoic acid	335-76-2	< 1.8	1.8	0.46	1
14070	Perfluorododecanoic acid	307-55-1	< 1.8	1.8	0.46	1
14070	Perfluoroheptanoic acid	375-85-9	< 1.8	1.8	0.46	1
14070	Perfluorohexanesulfonic acid	355-46-4	3.0	1.8	0.46	1
14070	Perfluorohexanoic acid	307-24-4	5.5	1.8	0.46	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.46	1
14070	Perfluorooctanesulfonic acid	1763-23-1	5.2	1.8	0.46	1
14070	Perfluorooctanoic acid	335-67-1	2.5	1.8	0.46	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.8	1.8	0.46	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.8	1.8	0.46	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.8	1.8	0.46	1

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	19360022	12/31/2019 19:57	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19360022	12/26/2019 18:00	Anthony C Polaski	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** 7670061 005 Conley Well FB Grab Water  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: PW 1229027  
ELLE Group #: 2080541  
Matrix: Water

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 11:00

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>						
			ng/l	ng/l	ng/l	
14070	NETFOSAA	2991-50-6	< 1.8	1.8	0.44	1
	NETFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	< 1.8	1.8	0.44	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonic acid	375-73-5	< 1.8	1.8	0.44	1
14070	Perfluorodecanoic acid	335-76-2	< 1.8	1.8	0.44	1
14070	Perfluorododecanoic acid	307-55-1	< 1.8	1.8	0.44	1
14070	Perfluoroheptanoic acid	375-85-9	< 1.8	1.8	0.44	1
14070	Perfluorohexanesulfonic acid	355-46-4	< 1.8	1.8	0.44	1
14070	Perfluorohexanoic acid	307-24-4	< 1.8	1.8	0.44	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.44	1
14070	Perfluorooctanesulfonic acid	1763-23-1	< 1.8	1.8	0.44	1
14070	Perfluorooctanoic acid	335-67-1	< 1.8	1.8	0.44	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.8	1.8	0.44	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.8	1.8	0.44	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.8	1.8	0.44	1

The holding time was not met. Per client request, the sample was placed on hold. When released for analysis, the holding time had already expired.

The recovery for the internal standard d3-NMeFOSAA is outside of QC acceptance limits in the laboratory fortified blank duplicate (LFBD).

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	20006008	01/08/2020 05:18	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20006008	01/06/2020 18:00	Anthony C Polaski	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** 7670061 301s Conley betw Lead & Lag  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: EW 1229028  
ELLE Group #: 2080541  
Matrix: Water

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 10:45

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	< 1.8	1.8	0.44	1
14070	NMeFOSAA NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	< 1.8	1.8	0.44	1
14070	Perfluorobutanesulfonic acid	375-73-5	1.9	1.8	0.44	1
14070	Perfluorodecanoic acid	335-76-2	< 1.8	1.8	0.44	1
14070	Perfluorododecanoic acid	307-55-1	< 1.8	1.8	0.44	1
14070	Perfluoroheptanoic acid	375-85-9	< 1.8	1.8	0.44	1
14070	Perfluorohexanesulfonic acid	355-46-4	< 1.8	1.8	0.44	1
14070	Perfluorohexanoic acid	307-24-4	7.4	1.8	0.44	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.44	1
14070	Perfluorooctanesulfonic acid	1763-23-1	< 1.8	1.8	0.44	1
14070	Perfluorooctanoic acid	335-67-1	< 1.8	1.8	0.44	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.8	1.8	0.44	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.8	1.8	0.44	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.8	1.8	0.44	1

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	19360022	12/31/2019 20:08	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19360022	12/26/2019 18:00	Anthony C Polaski	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** 7670061 301s Conley betw Lead & Lag FB  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: PW 1229029  
ELLE Group #: 2080541  
Matrix: Water

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 10:45

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	< 1.8	1.8	0.44	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	< 1.8	1.8	0.44	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonic acid	375-73-5	< 1.8	1.8	0.44	1
14070	Perfluorodecanoic acid	335-76-2	< 1.8	1.8	0.44	1
14070	Perfluorododecanoic acid	307-55-1	< 1.8	1.8	0.44	1
14070	Perfluoroheptanoic acid	375-85-9	< 1.8	1.8	0.44	1
14070	Perfluorohexanesulfonic acid	355-46-4	< 1.8	1.8	0.44	1
14070	Perfluorohexanoic acid	307-24-4	< 1.8	1.8	0.44	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.44	1
14070	Perfluorooctanesulfonic acid	1763-23-1	< 1.8	1.8	0.44	1
14070	Perfluorooctanoic acid	335-67-1	< 1.8	1.8	0.44	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.8	1.8	0.44	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.8	1.8	0.44	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.8	1.8	0.44	1

The holding time was not met. Per client request, the sample was placed on hold. When released for analysis, the holding time had already expired.

The recovery for the internal standard d3-NMeFOSAA is outside of QC acceptance limits in the laboratory fortified blank duplicate (LFBD).

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	20006008	01/08/2020 05:29	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20006008	01/06/2020 18:00	Anthony C Polaski	1

\*=This limit was used in the evaluation of the final result



**Sample Description:** 7670061 301s Conley Lead Vessel 1/2 Way Port  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: EW 1229030  
ELLE Group #: 2080541  
Matrix: Water

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 10:50

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	< 1.9	1.9	0.47	1
14070	NMeFOSAA NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	< 1.9	1.9	0.47	1
14070	Perfluorobutanesulfonic acid	375-73-5	2.7	1.9	0.47	1
14070	Perfluorodecanoic acid	335-76-2	< 1.9	1.9	0.47	1
14070	Perfluorododecanoic acid	307-55-1	< 1.9	1.9	0.47	1
14070	Perfluoroheptanoic acid	375-85-9	1.9	1.9	0.47	1
14070	Perfluorohexanesulfonic acid	355-46-4	2.5	1.9	0.47	1
14070	Perfluorohexanoic acid	307-24-4	8.7	1.9	0.47	1
14070	Perfluorononanoic acid	375-95-1	< 1.9	1.9	0.47	1
14070	Perfluorooctanesulfonic acid	1763-23-1	3.1	1.9	0.47	1
14070	Perfluorooctanoic acid	335-67-1	2.9	1.9	0.47	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.9	1.9	0.47	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.9	1.9	0.47	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.9	1.9	0.47	1

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	19360022	12/31/2019 20:20	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19360022	12/26/2019 18:00	Anthony C Polaski	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** 7670061 301s Conley Lead Vessel 1/2 Way Port FB  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: PW 1229031  
ELLE Group #: 2080541  
Matrix: Water

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 10:50

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	< 1.8	1.8	0.45	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	< 1.8	1.8	0.45	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonic acid	375-73-5	< 1.8	1.8	0.45	1
14070	Perfluorodecanoic acid	335-76-2	< 1.8	1.8	0.45	1
14070	Perfluorododecanoic acid	307-55-1	< 1.8	1.8	0.45	1
14070	Perfluoroheptanoic acid	375-85-9	< 1.8	1.8	0.45	1
14070	Perfluorohexanesulfonic acid	355-46-4	< 1.8	1.8	0.45	1
14070	Perfluorohexanoic acid	307-24-4	< 1.8	1.8	0.45	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.45	1
14070	Perfluorooctanesulfonic acid	1763-23-1	< 1.8	1.8	0.45	1
14070	Perfluorooctanoic acid	335-67-1	< 1.8	1.8	0.45	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.8	1.8	0.45	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.8	1.8	0.45	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.8	1.8	0.45	1

The holding time was not met. Per client request, the sample was placed on hold. When released for analysis, the holding time had already expired.

The recovery for the internal standard d3-NMeFOSAA is outside of QC acceptance limits in the laboratory fortified blank duplicate (LFBD).  
The recovery for the sample internal standard d3-NMeFOSAA is outside of the QC acceptance.

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	20006008	01/08/2020 05:41	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20006008	01/06/2020 18:00	Anthony C Polaski	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** 7670061 301s Conley After Lag Vessel  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: EW 1229032  
ELLE Group #: 2080541  
Matrix: Water

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 10:40

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	< 1.8	1.8	0.45	1
14070	NMeFOSAA NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	< 1.8	1.8	0.45	1
14070	Perfluorobutanesulfonic acid	375-73-5	< 1.8	1.8	0.45	1
14070	Perfluorodecanoic acid	335-76-2	< 1.8	1.8	0.45	1
14070	Perfluorododecanoic acid	307-55-1	< 1.8	1.8	0.45	1
14070	Perfluoroheptanoic acid	375-85-9	< 1.8	1.8	0.45	1
14070	Perfluorohexanesulfonic acid	355-46-4	< 1.8	1.8	0.45	1
14070	Perfluorohexanoic acid	307-24-4	2.0	1.8	0.45	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.45	1
14070	Perfluorooctanesulfonic acid	1763-23-1	< 1.8	1.8	0.45	1
14070	Perfluorooctanoic acid	335-67-1	< 1.8	1.8	0.45	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.8	1.8	0.45	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.8	1.8	0.45	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.8	1.8	0.45	1

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	19360022	12/31/2019 20:31	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19360022	12/26/2019 18:00	Anthony C Polaski	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** 7670061 301s Conley After Lag Vessel FB  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: PW 1229033  
ELLE Group #: 2080541  
Matrix: Water

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 10:40

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	< 1.8	1.8	0.44	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	< 1.8	1.8	0.44	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonic acid	375-73-5	< 1.8	1.8	0.44	1
14070	Perfluorodecanoic acid	335-76-2	< 1.8	1.8	0.44	1
14070	Perfluorododecanoic acid	307-55-1	< 1.8	1.8	0.44	1
14070	Perfluoroheptanoic acid	375-85-9	< 1.8	1.8	0.44	1
14070	Perfluorohexanesulfonic acid	355-46-4	< 1.8	1.8	0.44	1
14070	Perfluorohexanoic acid	307-24-4	< 1.8	1.8	0.44	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.44	1
14070	Perfluorooctanesulfonic acid	1763-23-1	< 1.8	1.8	0.44	1
14070	Perfluorooctanoic acid	335-67-1	< 1.8	1.8	0.44	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.8	1.8	0.44	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.8	1.8	0.44	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.8	1.8	0.44	1

The holding time was not met. Per client request, the sample was placed on hold. When released for analysis, the holding time had already expired.

The recovery for the internal standard d3-NMeFOSAA is outside of QC acceptance limits in the laboratory fortified blank duplicate (LFBD).

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	20006008	01/08/2020 05:53	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20006008	01/06/2020 18:00	Anthony C Polaski	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** 7670061 002 Coppersmith Well  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: EW 1229034  
ELLE Group #: 2080541  
Matrix: Water

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 09:40

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>			<b>ng/l</b>	<b>ng/l</b>	<b>ng/l</b>	
14070	NEtFOSAA NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	< 1.8	1.8	0.45	1
14070	NMeFOSAA NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	< 1.8	1.8	0.45	1
14070	Perfluorobutanesulfonic acid	375-73-5	14	1.8	0.45	1
14070	Perfluorodecanoic acid	335-76-2	< 1.8	1.8	0.45	1
14070	Perfluorododecanoic acid	307-55-1	< 1.8	1.8	0.45	1
14070	Perfluoroheptanoic acid	375-85-9	5.6	1.8	0.45	1
14070	Perfluorohexanesulfonic acid	355-46-4	100	18	4.5	10
14070	Perfluorohexanoic acid	307-24-4	13	1.8	0.45	1
14070	Perfluorononanoic acid	375-95-1	4.0	1.8	0.45	1
14070	Perfluorooctanesulfonic acid	1763-23-1	74	18	4.5	10
14070	Perfluorooctanoic acid	335-67-1	7.7	1.8	0.45	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.8	1.8	0.45	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.8	1.8	0.45	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.8	1.8	0.45	1

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	19360022	12/31/2019 20:43	Marissa C Drexinger	1
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	19360022	01/02/2020 19:57	Marissa C Drexinger	10
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19360022	12/26/2019 18:00	Anthony C Polaski	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** 7670061 002 Coppersmith Well FB  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: PW 1229035  
ELLE Group #: 2080541  
Matrix: Water

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 09:40

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>						
14070	NEtFOSAA	2991-50-6	< 1.7	1.7	0.44	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	< 1.7	1.7	0.44	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonic acid	375-73-5	< 1.7	1.7	0.44	1
14070	Perfluorodecanoic acid	335-76-2	< 1.7	1.7	0.44	1
14070	Perfluorododecanoic acid	307-55-1	< 1.7	1.7	0.44	1
14070	Perfluoroheptanoic acid	375-85-9	< 1.7	1.7	0.44	1
14070	Perfluorohexanesulfonic acid	355-46-4	< 1.7	1.7	0.44	1
14070	Perfluorohexanoic acid	307-24-4	< 1.7	1.7	0.44	1
14070	Perfluorononanoic acid	375-95-1	< 1.7	1.7	0.44	1
14070	Perfluorooctanesulfonic acid	1763-23-1	< 1.7	1.7	0.44	1
14070	Perfluorooctanoic acid	335-67-1	< 1.7	1.7	0.44	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.7	1.7	0.44	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.7	1.7	0.44	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.7	1.7	0.44	1

The holding time was not met. Per client request, the sample was placed on hold. When released for analysis, the holding time had already expired.

The recovery for the internal standard d3-NMeFOSAA is outside of QC acceptance limits in the laboratory fortified blank duplicate (LFBD).

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	20006008	01/08/2020 06:16	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20006008	01/06/2020 18:00	Anthony C Polaski	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** 7670061 003 DuPont Well  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: EW 1229036  
ELLE Group #: 2080541  
Matrix: Water

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 10:15

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	< 1.8	1.8	0.45	1
14070	NMeFOSAA NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	< 1.8	1.8	0.45	1
14070	Perfluorobutanesulfonic acid	375-73-5	8.9	1.8	0.45	1
14070	Perfluorodecanoic acid	335-76-2	< 1.8	1.8	0.45	1
14070	Perfluorododecanoic acid	307-55-1	< 1.8	1.8	0.45	1
14070	Perfluoroheptanoic acid	375-85-9	2.9	1.8	0.45	1
14070	Perfluorohexanesulfonic acid	355-46-4	130	18	4.5	10
14070	Perfluorohexanoic acid	307-24-4	9.1	1.8	0.45	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.45	1
14070	Perfluorooctanesulfonic acid	1763-23-1	120	18	4.5	10
14070	Perfluorooctanoic acid	335-67-1	5.9	1.8	0.45	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.8	1.8	0.45	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.8	1.8	0.45	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.8	1.8	0.45	1

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	19360022	12/31/2019 20:54	Marissa C Drexinger	1
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	19360022	01/02/2020 20:09	Marissa C Drexinger	10
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19360022	12/26/2019 18:00	Anthony C Polaski	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** 7670061 003 DuPont Well FB  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: PW 1229037  
ELLE Group #: 2080541  
Matrix: Water

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 10:15

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	< 1.8	1.8	0.45	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	< 1.8	1.8	0.45	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonic acid	375-73-5	< 1.8	1.8	0.45	1
14070	Perfluorodecanoic acid	335-76-2	< 1.8	1.8	0.45	1
14070	Perfluorododecanoic acid	307-55-1	< 1.8	1.8	0.45	1
14070	Perfluoroheptanoic acid	375-85-9	< 1.8	1.8	0.45	1
14070	Perfluorohexanesulfonic acid	355-46-4	< 1.8	1.8	0.45	1
14070	Perfluorohexanoic acid	307-24-4	< 1.8	1.8	0.45	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.45	1
14070	Perfluorooctanesulfonic acid	1763-23-1	< 1.8	1.8	0.45	1
14070	Perfluorooctanoic acid	335-67-1	< 1.8	1.8	0.45	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.8	1.8	0.45	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.8	1.8	0.45	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.8	1.8	0.45	1

The holding time was not met. Per client request, the sample was placed on hold. When released for analysis, the holding time had already expired.

The recovery for the internal standard d3-NMeFOSAA is outside of QC acceptance limits in the laboratory fortified blank duplicate (LFBD).  
The recovery for the sample internal standard 13C4-PFOS is outside of the QC acceptance.

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	20006008	01/08/2020 06:27	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20006008	01/06/2020 18:00	Anthony C Polaski	1

\*=This limit was used in the evaluation of the final result



**Sample Description:** 7670061 302s DuPont betw Lead & Lag  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: EW 1229038  
ELLE Group #: 2080541  
Matrix: Water

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 10:05

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	< 1.8	1.8	0.44	1
14070	NMeFOSAA NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	< 1.8	1.8	0.44	1
14070	Perfluorobutanesulfonic acid	375-73-5	7.1	1.8	0.44	1
14070	Perfluorodecanoic acid	335-76-2	< 1.8	1.8	0.44	1
14070	Perfluorododecanoic acid	307-55-1	< 1.8	1.8	0.44	1
14070	Perfluoroheptanoic acid	375-85-9	2.4	1.8	0.44	1
14070	Perfluorohexanesulfonic acid	355-46-4	32	1.8	0.44	1
14070	Perfluorohexanoic acid	307-24-4	16	1.8	0.44	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.44	1
14070	Perfluorooctanesulfonic acid	1763-23-1	16	1.8	0.44	1
14070	Perfluorooctanoic acid	335-67-1	2.4	1.8	0.44	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.8	1.8	0.44	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.8	1.8	0.44	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.8	1.8	0.44	1

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	19360022	12/31/2019 21:17	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19360022	12/26/2019 18:00	Anthony C Polaski	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** 7670061 302s DuPont betw Lead & Lag FB  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: PW 1229039  
ELLE Group #: 2080541  
Matrix: Water

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 10:05

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	< 1.8	1.8	0.46	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	< 1.8	1.8	0.46	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonic acid	375-73-5	< 1.8	1.8	0.46	1
14070	Perfluorodecanoic acid	335-76-2	< 1.8	1.8	0.46	1
14070	Perfluorododecanoic acid	307-55-1	< 1.8	1.8	0.46	1
14070	Perfluoroheptanoic acid	375-85-9	< 1.8	1.8	0.46	1
14070	Perfluorohexanesulfonic acid	355-46-4	< 1.8	1.8	0.46	1
14070	Perfluorohexanoic acid	307-24-4	< 1.8	1.8	0.46	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.46	1
14070	Perfluorooctanesulfonic acid	1763-23-1	< 1.8	1.8	0.46	1
14070	Perfluorooctanoic acid	335-67-1	< 1.8	1.8	0.46	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.8	1.8	0.46	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.8	1.8	0.46	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.8	1.8	0.46	1

The holding time was not met. Per client request, the sample was placed on hold. When released for analysis, the holding time had already expired.

The recovery for the internal standard d3-NMeFOSAA is outside of QC acceptance limits in the laboratory fortified blank duplicate (LFBD).

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	20006008	01/08/2020 06:39	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20006008	01/06/2020 18:00	Anthony C Polaski	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** 7670061 302s DuPont Lead Vessel 1/2 Way  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: EW 1229040  
ELLE Group #: 2080541  
Matrix: Water

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 10:10

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	< 1.8	1.8	0.46	1
14070	NMeFOSAA NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	< 1.8	1.8	0.46	1
14070	Perfluorobutanesulfonic acid	375-73-5	< 1.8	1.8	0.46	1
14070	Perfluorodecanoic acid	335-76-2	< 1.8	1.8	0.46	1
14070	Perfluorododecanoic acid	307-55-1	< 1.8	1.8	0.46	1
14070	Perfluoroheptanoic acid	375-85-9	< 1.8	1.8	0.46	1
14070	Perfluorohexanesulfonic acid	355-46-4	< 1.8	1.8	0.46	1
14070	Perfluorohexanoic acid	307-24-4	< 1.8	1.8	0.46	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.46	1
14070	Perfluorooctanesulfonic acid	1763-23-1	< 1.8	1.8	0.46	1
14070	Perfluorooctanoic acid	335-67-1	< 1.8	1.8	0.46	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.8	1.8	0.46	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.8	1.8	0.46	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.8	1.8	0.46	1

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	19360022	12/31/2019 21:29	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19360022	12/26/2019 18:00	Anthony C Polaski	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** 7670061 302s DuPont Lead Vessel 1/2 Way FB  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: PW 1229041  
ELLE Group #: 2080541

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 10:10

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### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

**Sample Description:** 7670061 302s DuPont After Lag Vessel  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: EW 1229042  
ELLE Group #: 2080541  
Matrix: Water

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 10:00

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	< 1.8	1.8	0.46	1
14070	NMeFOSAA NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	< 1.8	1.8	0.46	1
14070	Perfluorobutanesulfonic acid	375-73-5	< 1.8	1.8	0.46	1
14070	Perfluorodecanoic acid	335-76-2	< 1.8	1.8	0.46	1
14070	Perfluorododecanoic acid	307-55-1	< 1.8	1.8	0.46	1
14070	Perfluoroheptanoic acid	375-85-9	< 1.8	1.8	0.46	1
14070	Perfluorohexanesulfonic acid	355-46-4	< 1.8	1.8	0.46	1
14070	Perfluorohexanoic acid	307-24-4	1.9	1.8	0.46	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.46	1
14070	Perfluorooctanesulfonic acid	1763-23-1	< 1.8	1.8	0.46	1
14070	Perfluorooctanoic acid	335-67-1	< 1.8	1.8	0.46	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.8	1.8	0.46	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.8	1.8	0.46	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.8	1.8	0.46	1

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	19360022	12/31/2019 21:40	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19360022	12/26/2019 18:00	Anthony C Polaski	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** 7670061 302s DuPont After Lag Vessel FB  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: PW 1229043  
ELLE Group #: 2080541  
Matrix: Water

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 10:00

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	< 1.8	1.8	0.44	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	< 1.8	1.8	0.44	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonic acid	375-73-5	< 1.8	1.8	0.44	1
14070	Perfluorodecanoic acid	335-76-2	< 1.8	1.8	0.44	1
14070	Perfluorododecanoic acid	307-55-1	< 1.8	1.8	0.44	1
14070	Perfluoroheptanoic acid	375-85-9	< 1.8	1.8	0.44	1
14070	Perfluorohexanesulfonic acid	355-46-4	< 1.8	1.8	0.44	1
14070	Perfluorohexanoic acid	307-24-4	< 1.8	1.8	0.44	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.44	1
14070	Perfluorooctanesulfonic acid	1763-23-1	< 1.8	1.8	0.44	1
14070	Perfluorooctanoic acid	335-67-1	< 1.8	1.8	0.44	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.8	1.8	0.44	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.8	1.8	0.44	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.8	1.8	0.44	1

The holding time was not met. Per client request, the sample was placed on hold. When released for analysis, the holding time had already expired.

The recovery for the internal standard d3-NMeFOSAA is outside of QC acceptance limits in the laboratory fortified blank duplicate (LFBD).

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	20006008	01/08/2020 06:50	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20006008	01/06/2020 18:00	Anthony C Polaski	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** 7670061 101 Conley EP Grab Water  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: EW 1229044  
ELLE Group #: 2080541  
Matrix: Water

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 10:30

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	< 1.8	1.8	0.45	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	< 1.8	1.8	0.45	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonic acid	375-73-5	< 1.8	1.8	0.45	1
14070	Perfluorodecanoic acid	335-76-2	< 1.8	1.8	0.45	1
14070	Perfluorododecanoic acid	307-55-1	< 1.8	1.8	0.45	1
14070	Perfluoroheptanoic acid	375-85-9	< 1.8	1.8	0.45	1
14070	Perfluorohexanesulfonic acid	355-46-4	< 1.8	1.8	0.45	1
14070	Perfluorohexanoic acid	307-24-4	2.4	1.8	0.45	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.45	1
14070	Perfluorooctanesulfonic acid	1763-23-1	< 1.8	1.8	0.45	1
14070	Perfluorooctanoic acid	335-67-1	< 1.8	1.8	0.45	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.8	1.8	0.45	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.8	1.8	0.45	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.8	1.8	0.45	1

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	19360022	12/31/2019 21:52	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19360022	12/26/2019 18:00	Anthony C Polaski	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** 7670061 101 Conley EP FB Grab Water  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: PW 1229045  
ELLE Group #: 2080541  
Matrix: Water

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 10:30

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	< 1.8	1.8	0.44	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	< 1.8	1.8	0.44	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonic acid	375-73-5	< 1.8	1.8	0.44	1
14070	Perfluorodecanoic acid	335-76-2	< 1.8	1.8	0.44	1
14070	Perfluorododecanoic acid	307-55-1	< 1.8	1.8	0.44	1
14070	Perfluoroheptanoic acid	375-85-9	< 1.8	1.8	0.44	1
14070	Perfluorohexanesulfonic acid	355-46-4	< 1.8	1.8	0.44	1
14070	Perfluorohexanoic acid	307-24-4	< 1.8	1.8	0.44	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.44	1
14070	Perfluorooctanesulfonic acid	1763-23-1	< 1.8	1.8	0.44	1
14070	Perfluorooctanoic acid	335-67-1	< 1.8	1.8	0.44	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.8	1.8	0.44	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.8	1.8	0.44	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.8	1.8	0.44	1

The holding time was not met. Per client request, the sample was placed on hold. When released for analysis, the holding time had already expired.

The recovery for the internal standard d3-NMeFOSAA is outside of QC acceptance limits in the laboratory fortified blank duplicate (LFBD).

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	20006008	01/08/2020 07:02	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20006008	01/06/2020 18:00	Anthony C Polaski	1

\*=This limit was used in the evaluation of the final result



**Sample Description:** 7670061 102 DuPont EP  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: EW 1229046  
ELLE Group #: 2080541  
Matrix: Water

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 09:55

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
<b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b>						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	< 1.8	1.8	0.44	1
14070	NMeFOSAA NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	< 1.8	1.8	0.44	1
14070	Perfluorobutanesulfonic acid	375-73-5	< 1.8	1.8	0.44	1
14070	Perfluorodecanoic acid	335-76-2	< 1.8	1.8	0.44	1
14070	Perfluorododecanoic acid	307-55-1	< 1.8	1.8	0.44	1
14070	Perfluoroheptanoic acid	375-85-9	< 1.8	1.8	0.44	1
14070	Perfluorohexanesulfonic acid	355-46-4	< 1.8	1.8	0.44	1
14070	Perfluorohexanoic acid	307-24-4	< 1.8	1.8	0.44	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.44	1
14070	Perfluorooctanesulfonic acid	1763-23-1	< 1.8	1.8	0.44	1
14070	Perfluorooctanoic acid	335-67-1	< 1.8	1.8	0.44	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.8	1.8	0.44	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.8	1.8	0.44	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.8	1.8	0.44	1

### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	19360022	12/31/2019 22:03	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19360022	12/26/2019 18:00	Anthony C Polaski	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** 7670061 102 DuPont EP FB  
Grab Water  
Newberry System

Suez Water Pennsylvania  
ELLE Sample #: PW 1229047  
ELLE Group #: 2080541

**Project Name:** Newberry System

Submittal Date/Time: 12/20/2019 15:55  
Collection Date/Time: 12/19/2019 09:55

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### Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 1/31/20.

## Quality Control Summary

Client Name: Suez Water Pennsylvania  
Reported: 01/21/2020 15:17

Group Number: 2080541

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 was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Method Blank

Analysis Name	Result ng/l	LOQ** ng/l	MDL ng/l
Batch number: 19360022	Sample number(s): 1229024,1229026,1229028,1229030,1229032,1229034,1229036,1229038,1229040,1229042,1229044,1229046		
NEtFOSAA	< 2.0	2.0	0.50
NMeFOSAA	< 2.0	2.0	0.50
Perfluorobutanesulfonic acid	< 2.0	2.0	0.50
Perfluorodecanoic acid	< 2.0	2.0	0.50
Perfluorododecanoic acid	< 2.0	2.0	0.50
Perfluoroheptanoic acid	< 2.0	2.0	0.50
Perfluorohexanesulfonic acid	< 2.0	2.0	0.50
Perfluorohexanoic acid	< 2.0	2.0	0.50
Perfluorononanoic acid	< 2.0	2.0	0.50
Perfluorooctanesulfonic acid	< 2.0	2.0	0.50
Perfluorooctanoic acid	< 2.0	2.0	0.50
Perfluorotetradecanoic acid	< 2.0	2.0	0.50
Perfluorotridecanoic acid	< 2.0	2.0	0.50
Perfluoroundecanoic acid	< 2.0	2.0	0.50
Batch number: 20006008	Sample number(s): 1229025,1229027,1229029,1229031,1229033,1229035,1229037,1229039,1229043,1229045		
NEtFOSAA	< 2.0	2.0	0.50
NMeFOSAA	< 2.0	2.0	0.50
Perfluorobutanesulfonic acid	< 2.0	2.0	0.50
Perfluorodecanoic acid	< 2.0	2.0	0.50
Perfluorododecanoic acid	< 2.0	2.0	0.50
Perfluoroheptanoic acid	< 2.0	2.0	0.50
Perfluorohexanesulfonic acid	< 2.0	2.0	0.50
Perfluorohexanoic acid	< 2.0	2.0	0.50
Perfluorononanoic acid	< 2.0	2.0	0.50
Perfluorooctanesulfonic acid	< 2.0	2.0	0.50
Perfluorooctanoic acid	< 2.0	2.0	0.50
Perfluorotetradecanoic acid	< 2.0	2.0	0.50
Perfluorotridecanoic acid	< 2.0	2.0	0.50
Perfluoroundecanoic acid	< 2.0	2.0	0.50

### LCS/LCSD

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Suez Water Pennsylvania  
Reported: 01/21/2020 15:17

Group Number: 2080541

### LCS/LCSD

Analysis Name	LCS Spike Added ng/l	LCS Conc ng/l	LCSD Spike Added ng/l	LCSD Conc ng/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 19360022									
Sample number(s): 1229024,1229026,1229028,1229030,1229032,1229034,1229036,1229038,1229040,1229042,1229044,1229046									
NEtFOSAA	80	64.46	80	67.56	81	84	70-130	5	30
NMeFOSAA	80	68.77	80	71.79	86	90	70-130	4	30
Perfluorobutanesulfonic acid	70.8	62.57	70.8	66.98	88	95	70-130	7	30
Perfluorodecanoic acid	80	74.51	80	77.15	93	96	70-130	3	30
Perfluorododecanoic acid	80	68.28	80	73.07	85	91	70-130	7	30
Perfluoroheptanoic acid	80	74	80	76.12	93	95	70-130	3	30
Perfluorohexanesulfonic acid	72.96	68.45	72.96	73.24	94	100	70-130	7	30
Perfluorohexanoic acid	80	74.81	80	77.47	94	97	70-130	3	30
Perfluorononanoic acid	80	70.48	80	72.62	88	91	70-130	3	30
Perfluorooctanesulfonic acid	74.04	64.63	74.04	70.39	87	95	70-130	9	30
Perfluorooctanoic acid	80	71.11	80	74.83	89	94	70-130	5	30
Perfluorotetradecanoic acid	80	70.48	80	75.07	88	94	70-130	6	30
Perfluorotridecanoic acid	80	69.52	80	74.6	87	93	70-130	7	30
Perfluoroundecanoic acid	80	67.47	80	73.94	84	92	70-130	9	30
Batch number: 20006008									
Sample number(s): 1229025,1229027,1229029,1229031,1229033,1229035,1229037,1229039,1229043,1229045									
NEtFOSAA	20.48	19.37	20.48	16.82	95	82	70-130	14	30
NMeFOSAA	20.48	20.82	20.48	16.43	102	80	70-130	24	30
Perfluorobutanesulfonic acid	18.12	16.77	18.12	14.21	93	78	70-130	16	30
Perfluorodecanoic acid	20.48	20.69	20.48	16.99	101	83	70-130	20	30
Perfluorododecanoic acid	20.48	20.57	20.48	17.65	100	86	70-130	15	30
Perfluoroheptanoic acid	20.48	20.63	20.48	17.66	101	86	70-130	16	30
Perfluorohexanesulfonic acid	18.68	18.29	18.68	15.78	98	84	70-130	15	30
Perfluorohexanoic acid	20.48	20.32	20.48	16.92	99	83	70-130	18	30
Perfluorononanoic acid	20.48	20.95	20.48	16.59	102	81	70-130	23	30
Perfluorooctanesulfonic acid	18.96	18.65	18.96	15.89	98	84	70-130	16	30
Perfluorooctanoic acid	20.48	20.65	20.48	16.87	101	82	70-130	20	30
Perfluorotetradecanoic acid	20.48	20.08	20.48	16.48	98	80	70-130	20	30
Perfluorotridecanoic acid	20.48	20.69	20.48	17.37	101	85	70-130	17	30
Perfluoroundecanoic acid	20.48	22.31	20.48	19	109	93	70-130	16	30

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: Suez Water Pennsylvania  
Reported: 01/21/2020 15:17

Group Number: 2080541

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 14 PFAS in Drinking Water  
Batch number: 19360022

	13C2-PFHxA	13C2-PFDA	D5-NetFOSAA
1229024	102	97	82
1229026	98	90	80
1229028	100	94	83
1229030	100	97	79
1229032	92	88	74
1229034	97	94	80
1229036	104	100	78
1229038	102	93	75
1229040	98	95	81
1229042	99	86	72
1229044	95	93	80
1229046	104	95	83
Blank	97	92	80
LCS	103	103	85
LCSD	105	104	87
Limits:	70-130	70-130	70-130

Analysis Name: 14 PFAS in Drinking Water  
Batch number: 20006008

	13C2-PFHxA	13C2-PFDA	D5-NetFOSAA
1229025	74	74	77
1229027	90	90	90
1229029	81	80	81
1229031	73	74	74
1229033	89	91	90
1229035	85	84	80
1229037	77	76	75
1229039	89	87	87
1229043	86	84	82
1229045	88	87	82
Blank	94	95	97
LCS	96	100	92
LCSD	81	78	74
Limits:	70-130	70-130	70-130

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

# Environmental Analysis Request/Chain of Custody



Lancaster Laboratories  
Environmental

Acct. # 44297 Group # 2080541

Sample # 1229024-47

Client: <b>SUEZ WATER PA</b>				<b>Matrix</b>			<b>Analyses Requested</b>										<b>For Lab Use Only</b>							
Project Name: Newberry System				Site ID #:			<b>Preservation and Filtration Codes</b>										SF #: _____							
Project Manager: Elizabeth Bauer				P.O. #:			<input type="checkbox"/> O <input type="checkbox"/> PFAS (14) 537 v 1.1										SCR #: _____							
Sampler: Penny Bumbarger				PWSID #: 7670061																				
Phone #: 717-773-0185				Quote #: 219948A			Preservation Codes H = HCl                      T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> P = H <sub>3</sub> PO <sub>4</sub> F = Field Filtered              O = Other										<b>Remarks</b>							
State where samples were collected: <b>PA</b>		For Compliance: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																						
<b>Sample Identification</b>				<b>Collection</b>		Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Tissue <input type="checkbox"/>	Potable <input type="checkbox"/> Water	Ground <input checked="" type="checkbox"/>	Surface <input type="checkbox"/>	NPDES <input type="checkbox"/>	Other: GAC Filtered Water	Total # of Containers											<b>Monthly Compliance</b>	
				Date	Time																			
001 Playground Well				12/19/19	1055		X				2	X												
FB - Playground Well				12/19/19	1055						2	X												
005 Conley Well				12/19/19	1100			X			2	X												
FB - Conley Well				12/19/19	1100						2	X												
301s Conley Between Lead and Lag				12/19/19	1045					X	2	X												
FB - Conley Between Lead and Lag				12/19/19	1045						2	X												
301s Conley Lead Vessel Halfway Port				12/19/19	1050					X	2	X												
FB - Conley Lead Vessel Halfway Port				12/19/19	1050						2	X												
301s Conley After Lag				12/19/19	1040					X	2	X												
FB - Conley After Lag				12/19/19	1040						2	X												
<b>Turnaround Time Requested (TAT)</b> (please check):				Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Relinquished by:		Date	Time	Received by:		Date	Time	Date		Time								
(Rush TAT is subject to laboratory approval and surcharges.)						<i>Penny Bumbarger</i>		12/20/19	0935	<i>Stan King</i>		12-20-19	9:25											
Date results are needed:						Relinquished by:		Date	Time	Received by:		Date	Time	Date		Time								
Rush results requested by (please check):				E-Mail <input checked="" type="checkbox"/> Phone <input type="checkbox"/>		<i>Stan King</i>		12/20/19	16:05															
E-mail Address: penny.bumbarger@suez.com						Relinquished by:		Date	Time	Received by:		Date	Time	Date		Time								
Phone: 717-773-0185																								
<b>Data Package Options</b> (please check if required)						Relinquished by:		Date	Time	Received by:		Date	Time	Date		Time								
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 Commercial Carrier:																		
<b>EDD Required?</b> Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, format: _____						UPS _____ FedEx _____ Other _____						Temperature upon receipt <u>0.5-1.1</u> °C												









Client: Suez Water PA

**Delivery and Receipt Information**

Delivery Method: ELLE Courier      Arrival Date: 12/20/2019  
 Number of Packages: 2      Number of Projects: 1  
 State/Province of Origin: PA

**Arrival Condition Summary**

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	Total Trip Blank Qty:	0
Samples Chilled:	Yes	Air Quality Samples Present:	No
Paperwork Enclosed:	Yes		
Samples Intact:	No		
Missing Samples:	Yes		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

*Unpacked by Cory Jeremiah*

**Samples Chilled Details**

Thermometer Types:    *DT = Digital (Temp. Bottle)    IR = Infrared (Surface Temp)    All Temperatures in °C.*

Cooler #	Matrix	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	Water	DT42-03	1.1	DT	Wet	Y	Bagged	N
2	Water	DT42-03	0.5	DT	Wet	Y	Bagged	N

**Samples Not Intact Details**

Sample ID on Label	Bottle Code	Bottle Quantity	Container Salvageable?	Comments
FB DuPont Between Lead and Lag	250 ml oblong plastic - None	1	N	

**Missing Sample Details**

Sample ID on COC	Comments
005 Conley Well	Only received one of two bottles for this sample.

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>BMQL</b>	Below Minimum Quantitation Level	<b>mL</b>	milliliter(s)
<b>C</b>	degrees Celsius	<b>MPN</b>	Most Probable Number
<b>cfu</b>	colony forming units	<b>N.D.</b>	non-detect
<b>CP Units</b>	cobalt-chloroplatinate units	<b>ng</b>	nanogram(s)
<b>F</b>	degrees Fahrenheit	<b>NTU</b>	nephelometric turbidity units
<b>g</b>	gram(s)	<b>pg/L</b>	picogram/liter
<b>IU</b>	International Units	<b>RL</b>	Reporting Limit
<b>kg</b>	kilogram(s)	<b>TNTC</b>	Too Numerous To Count
<b>L</b>	liter(s)	<b>µg</b>	microgram(s)
<b>lb.</b>	pound(s)	<b>µL</b>	microliter(s)
<b>m3</b>	cubic meter(s)	<b>umhos/cm</b>	micromhos/cm
<b>meq</b>	milliequivalents	<b>MCL</b>	Maximum Contamination Limit
<b>mg</b>	milligram(s)		
<b>&lt;</b>	less than		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

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

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

Tests 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.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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# Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value $\geq$ the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column $>40\%$ . The lower result is reported.
P^	Concentration difference between the primary and confirmation column $> 40\%$ . The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column $>100\%$ . The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report
B	Detection in the Method Blank
Q0	LCS/LCSD Low
Q1	LCS/LCSD High
Q2	MS/MSD Low
Q3	MS/MSD High
Q7	LCS/LCSD RPD
Q8	DUP RPD
Q9	MS/MSD RPD

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.