



ANALYSIS REPORT

Prepared by:

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Prepared for:

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Report Date: September 25, 2019 17:08

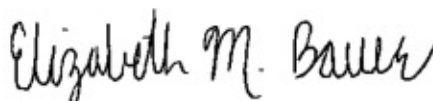
Project: Newberry System

Account #: 44297
Group Number: 2060810
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. Bauer
Project Manager

(717) 556-7290

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SAMPLE INFORMATION

<u>Client Sample Description</u>	<u>Sample Collection Date/Time</u>	<u>ELLE#</u>
7670061 001 Playground Well	08/22/2019 09:40	1136319
7670061 001 Playground Well FB	08/22/2019 09:40	1136320
7670061 005 Conley Well	08/22/2019 09:45	1136321
7670061 005 Conley Well FB	08/22/2019 09:45	1136322
7670061 301S Conley betw Lead & Lag	08/22/2019 09:30	1136323
7670061 301S Conley betw Lead & Lag FB	08/22/2019 09:30	1136324
7670061 301S Conley Lead Vessel 1/2 Way	08/22/2019 09:35	1136325
7670061 301S Conley Lead Vessel 1/2 Way FB	08/22/2019 09:35	1136326
7670061 301S Conley After Lag	08/22/2019 09:25	1136327
7670061 301S Conley After Lag FB	08/22/2019 09:25	1136328
7670061 002 Coppersmith Well	08/22/2019 08:25	1136329
7670061 002 Coppersmith Well FB	08/22/2019 08:25	1136330
7670061 003 DuPont Well	08/22/2019 09:00	1136331
7670061 003 DuPont Well FB	08/22/2019 09:00	1136332
7670061 302S DuPont betw Lead & Lag	08/22/2019 08:50	1136333
7670061 302S DuPont betw Lead & Lag FB	08/22/2019 08:50	1136334
7670061 302S DuPont Lead Vessel 1/2 Way	08/22/2019 08:55	1136335
7670061 302S DuPont Lead Vessel 1/2 Way FB	08/22/2019 08:55	1136336
7670061 302S DuPont After Lag Vessel	08/22/2019 08:45	1136337
7670061 302S DuPont After Lag Vessel FB	08/22/2019 08:45	1136338
7670061 101 Conley EP	08/22/2019 09:20	1136339
7670061 101 Conley FB	08/22/2019 09:20	1136340
7670061 102 DuPont	08/22/2019 08:40	1136341
7670061 102 DuPont FB	08/22/2019 08:40	1136342

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 1136319
ELLE Group #: 2060810
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 09:40

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1						
			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	3.9	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	4.0	1.8	0.45	1
14070	Perfluorohexanesulfonic acid	355-46-4	6.2	1.8	0.45	1
14070	Perfluorohexanoic acid	307-24-4	16	1.8	0.45	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.45	1
14070	Perfluorooctanesulfonic acid	1763-23-1	12	1.8	0.45	1
14070	Perfluorooctanoic acid	335-67-1	7.3	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	19247013	09/06/2019 20:23	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19247013	09/04/2019 17:00	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 1136320
ELLE Group #: 2060810
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 09:40

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1						
			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.

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	19255009	09/20/2019 21:55	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19255009	09/12/2019 20:00	Anthony C Polaski	1

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

Sample Description: 7670061 005 Conley Well
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: EW 1136321
ELLE Group #: 2060810
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 09:45

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1						
			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	2.5	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	2.6	1.8	0.45	1
14070	Perfluorohexanesulfonic acid	355-46-4	4.1	1.8	0.45	1
14070	Perfluorohexanoic acid	307-24-4	9.9	1.8	0.45	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.45	1
14070	Perfluorooctanesulfonic acid	1763-23-1	6.6	1.8	0.45	1
14070	Perfluorooctanoic acid	335-67-1	4.7	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	19247013	09/06/2019 20:34	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19247013	09/04/2019 17:00	Anthony C Polaski	1

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

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

Suez Water Pennsylvania
ELLE Sample #: PW 1136322
ELLE Group #: 2060810
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 09:45

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1						
			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.

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	19255009	09/20/2019 22:07	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19255009	09/12/2019 20:00	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 1136323
ELLE Group #: 2060810
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 09:30

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1						
			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	19247013	09/06/2019 20:46	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19247013	09/04/2019 17:00	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 1136324
ELLE Group #: 2060810

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 09:30

Sample Comments

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

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

Suez Water Pennsylvania
ELLE Sample #: EW 1136325
ELLE Group #: 2060810
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 09:35

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	< 1.9	1.9	0.48	1
14070	NMeFOSAA NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	< 1.9	1.9	0.48	1
14070	Perfluorobutanesulfonic acid	375-73-5	< 1.9	1.9	0.48	1
14070	Perfluorodecanoic acid	335-76-2	< 1.9	1.9	0.48	1
14070	Perfluorododecanoic acid	307-55-1	< 1.9	1.9	0.48	1
14070	Perfluoroheptanoic acid	375-85-9	< 1.9	1.9	0.48	1
14070	Perfluorohexanesulfonic acid	355-46-4	< 1.9	1.9	0.48	1
14070	Perfluorohexanoic acid	307-24-4	7.1	1.9	0.48	1
14070	Perfluorononanoic acid	375-95-1	< 1.9	1.9	0.48	1
14070	Perfluorooctanesulfonic acid	1763-23-1	< 1.9	1.9	0.48	1
14070	Perfluorooctanoic acid	335-67-1	< 1.9	1.9	0.48	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.9	1.9	0.48	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.9	1.9	0.48	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.9	1.9	0.48	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	19247013	09/06/2019 20:57	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19247013	09/04/2019 17:00	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 FB
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: PW 1136326
ELLE Group #: 2060810
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 09:35

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1						
			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.

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	19255009	09/20/2019 22:18	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19255009	09/12/2019 20:00	Anthony C Polaski	1

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

Sample Description: 7670061 301S Conley After Lag
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: EW 1136327
ELLE Group #: 2060810
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 09:25

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1						
			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	19247013	09/06/2019 21:09	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19247013	09/04/2019 17:00	Anthony C Polaski	1

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

Sample Description: 7670061 301S Conley After Lag FB
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: PW 1136328
ELLE Group #: 2060810

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 09:25

Sample Comments

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

Sample Description: 7670061 002 Coppersmith Well
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: EW 1136329
ELLE Group #: 2060810
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 08:25

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	< 2.0	2.0	0.49	1
14070	NMeFOSAA NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	< 2.0	2.0	0.49	1
14070	Perfluorobutanesulfonic acid	375-73-5	< 2.0	2.0	0.49	1
14070	Perfluorodecanoic acid	335-76-2	< 2.0	2.0	0.49	1
14070	Perfluorododecanoic acid	307-55-1	< 2.0	2.0	0.49	1
14070	Perfluoroheptanoic acid	375-85-9	< 2.0	2.0	0.49	1
14070	Perfluorohexanesulfonic acid	355-46-4	< 2.0	2.0	0.49	1
14070	Perfluorohexanoic acid	307-24-4	< 2.0	2.0	0.49	1
14070	Perfluorononanoic acid	375-95-1	< 2.0	2.0	0.49	1
14070	Perfluorooctanesulfonic acid	1763-23-1	< 2.0	2.0	0.49	1
14070	Perfluorooctanoic acid	335-67-1	< 2.0	2.0	0.49	1
14070	Perfluorotetradecanoic acid	376-06-7	< 2.0	2.0	0.49	1
14070	Perfluorotridecanoic acid	72629-94-8	< 2.0	2.0	0.49	1
14070	Perfluoroundecanoic acid	2058-94-8	< 2.0	2.0	0.49	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	19247013	09/06/2019 21:20	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19247013	09/04/2019 17:00	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 1136330
ELLE Group #: 2060810

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 08:25

Sample Comments

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

Sample Description: 7670061 003 DuPont Well
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: EW 1136331
ELLE Group #: 2060810
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 09:00

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1						
			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	6.5	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	2.8	1.8	0.45	1
14070	Perfluorohexanesulfonic acid	355-46-4	74	18	4.5	10
14070	Perfluorohexanoic acid	307-24-4	6.7	1.8	0.45	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.45	1
14070	Perfluorooctanesulfonic acid	1763-23-1	75	18	4.5	10
14070	Perfluorooctanoic acid	335-67-1	6.0	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	19247013	09/06/2019 21:44	Marissa C Drexinger	1
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	19247013	09/08/2019 15:36	Marissa C Drexinger	10
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19247013	09/04/2019 17:00	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 1136332
ELLE Group #: 2060810
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 09:00

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA	2991-50-6	< 1.9	1.9	0.47	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	< 1.9	1.9	0.47	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonic acid	375-73-5	< 1.9	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	< 1.9	1.9	0.47	1
14070	Perfluorohexanoic acid	307-24-4	< 1.9	1.9	0.47	1
14070	Perfluorononanoic acid	375-95-1	< 1.9	1.9	0.47	1
14070	Perfluorooctanesulfonic acid	1763-23-1	< 1.9	1.9	0.47	1
14070	Perfluorooctanoic acid	335-67-1	< 1.9	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

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.

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	19255009	09/20/2019 22:30	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19255009	09/12/2019 20:00	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 1136333
ELLE Group #: 2060810
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 08:50

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1						
			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

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	19247013	09/06/2019 21:55	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19247013	09/04/2019 17:00	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 1136334
ELLE Group #: 2060810

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 08:50

Sample Comments

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

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

Suez Water Pennsylvania
ELLE Sample #: EW 1136335
ELLE Group #: 2060810
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 08:55

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	< 2.0	2.0	0.49	1
14070	NMeFOSAA NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	< 2.0	2.0	0.49	1
14070	Perfluorobutanesulfonic acid	375-73-5	2.7	2.0	0.49	1
14070	Perfluorodecanoic acid	335-76-2	< 2.0	2.0	0.49	1
14070	Perfluorododecanoic acid	307-55-1	< 2.0	2.0	0.49	1
14070	Perfluoroheptanoic acid	375-85-9	< 2.0	2.0	0.49	1
14070	Perfluorohexanesulfonic acid	355-46-4	10	2.0	0.49	1
14070	Perfluorohexanoic acid	307-24-4	6.8	2.0	0.49	1
14070	Perfluorononanoic acid	375-95-1	< 2.0	2.0	0.49	1
14070	Perfluorooctanesulfonic acid	1763-23-1	6.4	2.0	0.49	1
14070	Perfluorooctanoic acid	335-67-1	< 2.0	2.0	0.49	1
14070	Perfluorotetradecanoic acid	376-06-7	< 2.0	2.0	0.49	1
14070	Perfluorotridecanoic acid	72629-94-8	< 2.0	2.0	0.49	1
14070	Perfluoroundecanoic acid	2058-94-8	< 2.0	2.0	0.49	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	19247013	09/06/2019 22:07	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19247013	09/04/2019 17:00	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 1136336
ELLE Group #: 2060810
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 08:55

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1						
			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.

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	19255009	09/20/2019 22:41	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19255009	09/12/2019 20:00	Anthony C Polaski	1

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

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

Suez Water Pennsylvania
ELLE Sample #: EW 1136337
ELLE Group #: 2060810
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 08:45

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1						
			ng/l	ng/l	ng/l	
14070	NEtFOSAA NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.	2991-50-6	< 1.9	1.9	0.48	1
14070	NMeFOSAA NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	< 1.9	1.9	0.48	1
14070	Perfluorobutanesulfonic acid	375-73-5	< 1.9	1.9	0.48	1
14070	Perfluorodecanoic acid	335-76-2	< 1.9	1.9	0.48	1
14070	Perfluorododecanoic acid	307-55-1	< 1.9	1.9	0.48	1
14070	Perfluoroheptanoic acid	375-85-9	< 1.9	1.9	0.48	1
14070	Perfluorohexanesulfonic acid	355-46-4	< 1.9	1.9	0.48	1
14070	Perfluorohexanoic acid	307-24-4	< 1.9	1.9	0.48	1
14070	Perfluorononanoic acid	375-95-1	< 1.9	1.9	0.48	1
14070	Perfluorooctanesulfonic acid	1763-23-1	< 1.9	1.9	0.48	1
14070	Perfluorooctanoic acid	335-67-1	< 1.9	1.9	0.48	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.9	1.9	0.48	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.9	1.9	0.48	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.9	1.9	0.48	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	19248011	09/08/2019 18:40	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19248011	09/05/2019 17:00	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 1136338
ELLE Group #: 2060810

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 08:45

Sample Comments

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

Sample Description: 7670061 101 Conley EP
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: EW 1136339
ELLE Group #: 2060810
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 09:20

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1						
			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	19248011	09/08/2019 18:52	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19248011	09/05/2019 17:00	Anthony C Polaski	1

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

Sample Description: 7670061 101 Conley FB
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: PW 1136340
ELLE Group #: 2060810

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 09:20

Sample Comments

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

Sample Description: 7670061 102 DuPont
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: EW 1136341
ELLE Group #: 2060810
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 08:40

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
LC/MS/MS Miscellaneous EPA 537 Version 1.1						
			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

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	19248011	09/08/2019 19:03	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19248011	09/05/2019 17:00	Anthony C Polaski	1

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

Sample Description: 7670061 102 DuPont FB
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: PW 1136342
ELLE Group #: 2060810

Project Name: Newberry System

Submittal Date/Time: 08/23/2019 15:03
Collection Date/Time: 08/22/2019 08:40

Sample Comments

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

Quality Control Summary

Client Name: Suez Water Pennsylvania
Reported: 09/25/2019 17:08

Group Number: 2060810

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	LOQ**	MDL
	ng/l	ng/l	ng/l
Batch number: 19247013	Sample number(s): 1136319,1136321,1136323,1136325,1136327,1136329,1136331,1136333,1136335		
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: 19248011	Sample number(s): 1136337,1136339,1136341		
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: 19255009	Sample number(s): 1136320,1136322,1136326,1136332,1136336		
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

*- 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: 09/25/2019 17:08

Group Number: 2060810

Method Blank (continued)

Analysis Name	Result ng/l	LOQ** ng/l	MDL ng/l
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

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: 19247013	Sample number(s): 1136319,1136321,1136323,1136325,1136327,1136329,1136331,1136333,1136335								
NEtFOSAA	3.84	3.53	3.84	3.34	92	87	50-150	5	30
NMeFOSAA	3.84	3.69	3.84	3.40	96	89	50-150	8	30
Perfluorobutanesulfonic acid	3.40	3.02	3.40	2.96	89	87	50-150	2	30
Perfluorodecanoic acid	3.84	3.59	3.84	3.51	93	91	50-150	2	30
Perfluorododecanoic acid	3.84	2.85	3.84	2.76	74	72	50-150	3	30
Perfluoroheptanoic acid	3.84	3.24	3.84	3.18	84	83	50-150	2	30
Perfluorohexanesulfonic acid	3.50	3.26	3.50	3.07	93	87	50-150	6	30
Perfluorohexanoic acid	3.84	3.42	3.84	3.32	89	87	50-150	3	30
Perfluorononanoic acid	3.84	3.57	3.84	3.37	93	88	50-150	6	30
Perfluorooctanesulfonic acid	3.55	3.10	3.55	2.94	87	83	50-150	5	30
Perfluorooctanoic acid	3.84	3.51	3.84	3.33	91	87	50-150	5	30
Perfluorotetradecanoic acid	3.84	3.15	3.84	3.22	82	84	50-150	2	30
Perfluorotridecanoic acid	3.84	3.01	3.84	2.96	78	77	50-150	2	30
Perfluoroundecanoic acid	3.84	3.27	3.84	3.07	85	80	50-150	6	30
Batch number: 19248011	Sample number(s): 1136337,1136339,1136341								
NEtFOSAA	80	60.19	80	63.47	75	79	70-130	5	30
NMeFOSAA	80	62.01	80	65.96	78	82	70-130	6	30
Perfluorobutanesulfonic acid	70.8	57.04	70.8	63.78	81	90	70-130	11	30
Perfluorodecanoic acid	80	64.8	80	65.76	81	82	70-130	1	30
Perfluorododecanoic acid	80	58.83	80	58.49	74	73	70-130	1	30
Perfluoroheptanoic acid	80	65.6	80	68.66	82	86	70-130	5	30
Perfluorohexanesulfonic acid	72.96	62.13	72.96	67.13	85	92	70-130	8	30
Perfluorohexanoic acid	80	64.06	80	66.09	80	83	70-130	3	30
Perfluorononanoic acid	80	67.01	80	69.41	84	87	70-130	4	30
Perfluorooctanesulfonic acid	74.04	57.22	74.04	61.34	77	83	70-130	7	30
Perfluorooctanoic acid	80	64.7	80	65.08	81	81	70-130	1	30
Perfluorotetradecanoic acid	80	68.37	80	65.9	85	82	70-130	4	30
Perfluorotridecanoic acid	80	65.01	80	63.4	81	79	70-130	3	30

*- Outside of specification

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

Quality Control Summary

Client Name: Suez Water Pennsylvania
Reported: 09/25/2019 17:08

Group Number: 2060810

LCS/LCSD (continued)

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
Perfluoroundecanoic acid	80	66.73	80	65.65	83	82	70-130	2	30
Batch number: 19255009	Sample number(s): 1136320,1136322,1136326,1136332,1136336								
NEtFOSAA	3.84	3.79	3.84	3.70	99	96	50-150	2	30
NMeFOSAA	3.84	3.84	3.84	3.64	100	95	50-150	6	30
Perfluorobutanesulfonic acid	3.40	3.27	3.40	3.29	96	97	50-150	1	30
Perfluorodecanoic acid	3.84	3.82	3.84	3.69	99	96	50-150	3	30
Perfluorododecanoic acid	3.84	3.77	3.84	3.54	98	92	50-150	6	30
Perfluoroheptanoic acid	3.84	3.69	3.84	3.59	96	93	50-150	3	30
Perfluorohexanesulfonic acid	3.50	3.63	3.50	3.56	103	102	50-150	2	30
Perfluorohexanoic acid	3.84	3.87	3.84	3.73	101	97	50-150	4	30
Perfluorononanoic acid	3.84	3.74	3.84	3.70	97	96	50-150	1	30
Perfluorooctanesulfonic acid	3.55	3.63	3.55	3.46	102	97	50-150	5	30
Perfluorooctanoic acid	3.84	3.72	3.84	3.60	97	94	50-150	3	30
Perfluorotetradecanoic acid	3.84	3.78	3.84	3.52	99	92	50-150	7	30
Perfluorotridecanoic acid	3.84	3.40	3.84	3.13	89	82	50-150	8	30
Perfluoroundecanoic acid	3.84	3.86	3.84	3.71	100	97	50-150	4	30

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: 19247013

	13C2-PFHxA	13C2-PFDA	D5-NetFOSAA
1136319	86	95	88
1136321	87	102	94
1136323	94	94	87
1136325	91	100	88
1136327	93	99	92
1136329	90	94	88
1136331	90	113	89
1136333	93	96	93
1136335	70	77	76
Blank	98	105	94
LCS	110	116	104
LCSD	99	109	100
Limits:	70-130	70-130	70-130

*- Outside of specification

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

Quality Control Summary

Client Name: Suez Water Pennsylvania
Reported: 09/25/2019 17:08

Group Number: 2060810

Surrogate Quality Control (continued)

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: 19248011

	13C2-PFHxA	13C2-PFDA	D5-NetFOSAA
1136337	94	93	88
1136339	104	104	97
1136341	90	96	89
Blank	86	91	85
LCS	103	102	90
LCSD	125	126	115
Limits:	70-130	70-130	70-130

Analysis Name: 14 PFAS in Drinking Water
Batch number: 19255009

	13C2-PFHxA	13C2-PFDA	D5-NetFOSAA
1136320	90	97	94
1136322	101	106	98
1136326	98	103	97
1136332	103	106	95
1136336	104	108	100
Blank	105	110	110
LCS	94	96	96
LCSD	106	107	110
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

For Eurofins Lancaster Laboratories Environmental use only

Acct. # 44297 Group # 2060000 Sample # 11310319-42

COC # 584512

Client Information				Matrix			Analysis Requested										For Lab Use Only			
Client: <u>SUEZ Water PA</u>		Acct. #: <u>44297</u>		<input type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Tissue <input type="checkbox"/> Potable <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Other:	Total # of Containers	Preservation and Filtration Codes										FSC: _____	SCR#: _____			
Project Name/ #: <u>Newberry System</u>		PWSID #: <u>7670061</u>														Preservation Codes H=HCl T=Thiosulfate N=HNO ₃ B=NaOH S=H ₂ SO ₄ P=H ₃ PO ₄ F=Field Filtered O=Other				
Project Manager:		P.O. #:														Remarks <u>Monthly Compliance</u>				
Sampler: <u>Penny Bumbarger</u>		Quote #:																		
State where samples were collected: <u>PA</u>		For Compliance: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																		
Sample Identification		Collected		Grab	Composite	Soil	Water	Other:	Total # of Containers											
		Date	Time																	
<u>EP 101 Conley</u>		<u>8/22/19</u>	<u>0920</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>2</u>	<input checked="" type="checkbox"/>										
<u>FB EP 101 Conley</u>		<u>8/22/19</u>	<u>0920</u>						<u>1</u>	<input checked="" type="checkbox"/>										
<u>EP 102 Dupont</u>		<u>8/22/19</u>	<u>0840</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>2</u>	<input checked="" type="checkbox"/>										
<u>FB EP 102 Dupont</u>		<u>8/22/19</u>	<u>0840</u>						<u>1</u>	<input checked="" type="checkbox"/>										
<u>* BATCH QC EP 102 Dupont</u>		<u>8/22/19</u>	<u>0840</u>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<u>1</u>	<input checked="" type="checkbox"/>										

Turnaround Time (TAT) Requested (please circle) Standard <u>Standard</u> Rush (Rush TAT is subject to laboratory approval and surcharge.)		Relinquished by: <u>Penny Bumbarger</u>	Date: <u>8/23/19</u>	Time: <u>0940</u>	Received by: <u>[Signature]</u>	Date: <u>8/23/19</u>	Time: <u>9:40</u>
Requested TAT in business days: _____		Relinquished by: <u>[Signature]</u>	Date: <u>8/23/19</u>	Time: <u>15:08</u>	Received by: _____	Date: _____	Time: _____
E-mail address: _____		Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Data Package Options (circle if required) Type I (EPA Level 3 Equivalent/non-CLP) Type VI (Raw Data Only) Type III (Reduced non-CLP) NJ-DKQP TX-TRRP-13 NYSDEC Category A or B MA MCP CT RCP		Relinquished by: _____	Date: _____	Time: _____	Received by: <u>[Signature]</u>	Date: <u>8-23-19</u>	Time: <u>1503</u>
		EDD Required? Yes No		Relinquished by Commercial Carrier:			
		If yes, format: _____		UPS _____ FedEx _____ Other _____			
		Site-Specific QC (MS/MSD/Dup)? Yes No		Temperature upon receipt <u>16</u> °C			
		(If yes, indicate QC sample and submit triplicate sample volume.)					



Group Number(s):

2060810

Client: Suez Water

Delivery and Receipt Information

Delivery Method: ELLE Courier Arrival Timestamp: 08/23/2019 15:03
 Number of Packages: 2 Number of Projects: 3
 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:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Ann-Marie Phillips (13 160) at 21:51 on 08/26/2019

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	0.6	DT	Wet	Y	Bagged	N
2	Water	DT146	0.6	DT	Wet	Y	Bagged	N

Explanation of Symbols and Abbreviations

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

BMQL	Below Minimum Quantitation Level	mL	milliliter(s)
C	degrees Celsius	MPN	Most Probable Number
cfu	colony forming units	N.D.	non-detect
CP Units	cobalt-chloroplatinate units	ng	nanogram(s)
F	degrees Fahrenheit	NTU	nephelometric turbidity units
g	gram(s)	pg/L	picogram/liter
IU	International Units	RL	Reporting Limit
kg	kilogram(s)	TNTC	Too Numerous To Count
L	liter(s)	µg	microgram(s)
lb.	pound(s)	µL	microliter(s)
m3	cubic meter(s)	umhos/cm	micromhos/cm
meq	milliequivalents	MCL	Maximum Contamination Limit
mg	milligram(s)		
<	less than		
>	greater than		
ppm	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.		
ppb	parts per billion		
Dry weight basis	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.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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 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.