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ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Suez Water Pennsylvania
6310 Allentown Blvd
Suite 104
Harrisburg PA 17112

Report Date: December 20, 2019 07:56

Project: Newberry System

Account #: 44297
Group Number: 2076399
State of Sample Origin: PA

Electronic Copy To	Suez Water Pennsylvania	Attn: Penny Bumbarger
Electronic Copy To	Suez Water Pennsylvania	Attn: Shawn Wiley

Respectfully Submitted,

Elizabeth M. Zanar

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.

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SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
7670061 001 Playground Well	11/20/2019 10:15	1210332
7670061 001 Playground Well FB	11/20/2019 10:15	1210333
7670061 005 Conley Well Grab Water	11/20/2019 10:20	1210334
7670061 005 Conley Well Field Blank Grab Water	11/20/2019 10:20	1210335
7670061 301s Conley betw Lead & Lag	11/20/2019 10:00	1210336
7670061 301s Conley betw Lead & Lag FB	11/20/2019 10:00	1210337
7670061 301s Conley Lead Vessel 1/2 Way	11/20/2019 10:10	1210338
7670061 301s Conley Lead Vessel 1/2 Way FB	11/20/2019 10:10	1210339
7670061 301s Conley After Lag Vessel	11/20/2019 10:05	1210340
7670061 301s Conley After Lag Vessel FB	11/20/2019 10:05	1210341
7670061 002 Coppersmith Well	11/20/2019 09:05	1210342
7670061 002 Coppersmith Well FB	11/20/2019 09:05	1210343
7670061 003 DuPont Well	11/20/2019 09:40	1210344
7670061 003 DuPont Well FB	11/20/2019 09:40	1210345
7670061 302s DuPont betw Lead & Lag	11/20/2019 09:25	1210346
7670061 302s DuPont betw Lead & Lag FB	11/20/2019 09:25	1210347
7670061 302s DuPont Lead Vessel 1/2 Way	11/20/2019 09:30	1210348
7670061 302s DuPont Lead Vessel 1/2 Way FB	11/20/2019 09:30	1210349
7670061 302s DuPont After Lag Vessel	11/20/2019 09:35	1210350
7670061 302s DuPont After Lag Vessel FB	11/20/2019 09:35	1210351
7670061 101 Conley EP Grab Water	11/20/2019 09:55	1210352
7670061 101 Conley Field Blank Grab Water	11/20/2019 09:55	1210353
7670061 102 DuPont EP Grab Water	11/20/2019 09:20	1210354
7670061 102 DuPont Field Blank Grab Water	11/20/2019 09:20	1210355

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

Project Name: **Newberry System**

Submittal Date/Time: 11/22/2019 15:23
Collection Date/Time: 11/20/2019 10:15

Suez Water Pennsylvania
ELLE Sample #: EW 1210332
ELLE Group #: 2076399
Matrix: Water

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	3.4	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	3.0	1.8	0.45	1
14070	Perfluorohexanesulfonic acid	355-46-4	5.5	1.8	0.45	1
14070	Perfluorohexanoic acid	307-24-4	12	1.8	0.45	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.45	1
14070	Perfluorooctanesulfonic acid	1763-23-1	11	1.8	0.45	1
14070	Perfluorooctanoic acid	335-67-1	6.5	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	19336008	12/05/2019 05:37	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19336008	12/02/2019 16:00	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

Project Name: **Newberry System**

Submittal Date/Time: 11/22/2019 15:23
Collection Date/Time: 11/20/2019 10:15

Suez Water Pennsylvania
ELLE Sample #: PW 1210333
ELLE Group #: 2076399
Matrix: Water

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	19342006	12/10/2019 18:22	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19342006	12/08/2019 16:00	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

Project Name: **Newberry System**

Submittal Date/Time: 11/22/2019 15:23
Collection Date/Time: 11/20/2019 10:20

Suez Water Pennsylvania
ELLE Sample #: EW 1210334
ELLE Group #: 2076399
Matrix: Water

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	0.48	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	< 1.9	1.9	0.48	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonic acid	375-73-5	2.5	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	3.8	1.9	0.48	1
14070	Perfluorohexanoic acid	307-24-4	8.1	1.9	0.48	1
14070	Perfluorononanoic acid	375-95-1	< 1.9	1.9	0.48	1
14070	Perfluorooctanesulfonic acid	1763-23-1	6.0	1.9	0.48	1
14070	Perfluorooctanoic acid	335-67-1	3.3	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	19336008	12/05/2019 05:49	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19336008	12/02/2019 16:00	Anthony C Polaski	1

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

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

Project Name: **Newberry System**

Submittal Date/Time: 11/22/2019 15:23
Collection Date/Time: 11/20/2019 10:20

Suez Water Pennsylvania
ELLE Sample #: PW 1210335
ELLE Group #: 2076399
Matrix: Water

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	19343008	12/11/2019 13:46	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19343008	12/09/2019 16:00	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

Project Name: **Newberry System**

Submittal Date/Time: 11/22/2019 15:23
Collection Date/Time: 11/20/2019 10:00

Suez Water Pennsylvania
ELLE Sample #: EW 1210336
ELLE Group #: 2076399
Matrix: Water

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	6.8	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	19336008	12/05/2019 06:01	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19336008	12/02/2019 16:00	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

Project Name: **Newberry System**

Submittal Date/Time: 11/22/2019 15:23
Collection Date/Time: 11/20/2019 10:00

Suez Water Pennsylvania
ELLE Sample #: PW 1210337
ELLE Group #: 2076399
Matrix: Water

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	19342006	12/10/2019 18:33	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19342006	12/08/2019 16:00	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**
Grab Water
Newberry System

Project Name: **Newberry System**

Submittal Date/Time: 11/22/2019 15:23
Collection Date/Time: 11/20/2019 10:10

Suez Water Pennsylvania
ELLE Sample #: EW 1210338
ELLE Group #: 2076399
Matrix: Water

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	2.9	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	2.0	1.8	0.46	1
14070	Perfluorohexanesulfonic acid	355-46-4	2.3	1.8	0.46	1
14070	Perfluorohexanoic acid	307-24-4	10	1.8	0.46	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.46	1
14070	Perfluorooctanesulfonic acid	1763-23-1	3.1	1.8	0.46	1
14070	Perfluorooctanoic acid	335-67-1	3.1	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	19336008	12/05/2019 06:12	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19336008	12/02/2019 16:00	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

Project Name: **Newberry System**

Submittal Date/Time: 11/22/2019 15:23
Collection Date/Time: 11/20/2019 10:10

Suez Water Pennsylvania
ELLE Sample #: PW 1210339
ELLE Group #: 2076399
Matrix: Water

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	19342006	12/10/2019 18:45	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19342006	12/08/2019 16:00	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

Project Name: **Newberry System**

Submittal Date/Time: 11/22/2019 15:23
Collection Date/Time: 11/20/2019 10:05

Suez Water Pennsylvania
ELLE Sample #: EW 1210340
ELLE Group #: 2076399
Matrix: Water

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	19336008	12/05/2019 06:24	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19336008	12/02/2019 16:00	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 1210341**
ELLE Group #: **2076399**

Project Name: **Newberry System**

Submittal Date/Time: 11/22/2019 15:23
Collection Date/Time: 11/20/2019 10:05

Sample Comments

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

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

Project Name: **Newberry System**

Submittal Date/Time: 11/22/2019 15:23
Collection Date/Time: 11/20/2019 09:05

Suez Water Pennsylvania
ELLE Sample #: EW 1210342
ELLE Group #: 2076399
Matrix: Water

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	9.2	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	5.9	1.8	0.45	1
14070	Perfluorohexanesulfonic acid	355-46-4	88	18	4.5	10
14070	Perfluorohexanoic acid	307-24-4	15	1.8	0.45	1
14070	Perfluorononanoic acid	375-95-1	4.3	1.8	0.45	1
14070	Perfluorooctanesulfonic acid	1763-23-1	83	18	4.5	10
14070	Perfluorooctanoic acid	335-67-1	7.6	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	19336008	12/05/2019 06:35	Marissa C Drexinger	1
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	19336008	12/06/2019 12:36	Marissa C Drexinger	10
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19336008	12/02/2019 16:00	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

Project Name: **Newberry System**

Submittal Date/Time: 11/22/2019 15:23
Collection Date/Time: 11/20/2019 09:05

Suez Water Pennsylvania
ELLE Sample #: PW 1210343
ELLE Group #: 2076399
Matrix: Water

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	19342006	12/10/2019 18:56	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19342006	12/08/2019 16:00	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

Project Name: **Newberry System**

Submittal Date/Time: 11/22/2019 15:23
Collection Date/Time: 11/20/2019 09:40

Suez Water Pennsylvania
ELLE Sample #: EW 1210344
ELLE Group #: 2076399
Matrix: Water

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	7.0	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	2.6	1.8	0.46	1
14070	Perfluorohexanesulfonic acid	355-46-4	130	18	4.6	10
14070	Perfluorohexanoic acid	307-24-4	7.2	1.8	0.46	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.46	1
14070	Perfluorooctanesulfonic acid	1763-23-1	98	18	4.6	10
14070	Perfluorooctanoic acid	335-67-1	5.2	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	19336008	12/05/2019 06:47	Marissa C Drexinger	1
14070	14 PFAS in Drinking Water	EPA 537 Version 1.1	1	19336008	12/06/2019 12:47	Marissa C Drexinger	10
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19336008	12/02/2019 16:00	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

Project Name: **Newberry System**

Submittal Date/Time: 11/22/2019 15:23
Collection Date/Time: 11/20/2019 09:40

Suez Water Pennsylvania
ELLE Sample #: PW 1210345
ELLE Group #: 2076399
Matrix: Water

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	19342006	12/10/2019 19:08	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19342006	12/08/2019 16:00	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

Project Name: **Newberry System**

Submittal Date/Time: 11/22/2019 15:23
Collection Date/Time: 11/20/2019 09:25

Suez Water Pennsylvania
ELLE Sample #: EW 1210346
ELLE Group #: 2076399
Matrix: Water

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	3.4	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	12	1.8	0.45	1
14070	Perfluorohexanoic acid	307-24-4	11	1.8	0.45	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.45	1
14070	Perfluorooctanesulfonic acid	1763-23-1	5.8	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	19336008	12/05/2019 07:10	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19336008	12/02/2019 16:00	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

Project Name: **Newberry System**

Submittal Date/Time: 11/22/2019 15:23
Collection Date/Time: 11/20/2019 09:25

Suez Water Pennsylvania
ELLE Sample #: PW 1210347
ELLE Group #: 2076399
Matrix: Water

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	< 1.7	1.7	0.43	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	< 1.7	1.7	0.43	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonic acid	375-73-5	< 1.7	1.7	0.43	1
14070	Perfluorodecanoic acid	335-76-2	< 1.7	1.7	0.43	1
14070	Perfluorododecanoic acid	307-55-1	< 1.7	1.7	0.43	1
14070	Perfluoroheptanoic acid	375-85-9	< 1.7	1.7	0.43	1
14070	Perfluorohexanesulfonic acid	355-46-4	< 1.7	1.7	0.43	1
14070	Perfluorohexanoic acid	307-24-4	< 1.7	1.7	0.43	1
14070	Perfluorononanoic acid	375-95-1	< 1.7	1.7	0.43	1
14070	Perfluorooctanesulfonic acid	1763-23-1	< 1.7	1.7	0.43	1
14070	Perfluorooctanoic acid	335-67-1	< 1.7	1.7	0.43	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.7	1.7	0.43	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.7	1.7	0.43	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.7	1.7	0.43	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	19342006	12/10/2019 19:20	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19342006	12/08/2019 16:00	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

Project Name: **Newberry System**

Submittal Date/Time: 11/22/2019 15:23
Collection Date/Time: 11/20/2019 09:30

Suez Water Pennsylvania
ELLE Sample #: EW 1210348
ELLE Group #: 2076399
Matrix: Water

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	0.48	1
	NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.					
14070	NMeFOSAA	2355-31-9	< 1.9	1.9	0.48	1
	NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.					
14070	Perfluorobutanesulfonic acid	375-73-5	7.7	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	3.4	1.9	0.48	1
14070	Perfluorohexanesulfonic acid	355-46-4	40	1.9	0.48	1
14070	Perfluorohexanoic acid	307-24-4	21	1.9	0.48	1
14070	Perfluorononanoic acid	375-95-1	< 1.9	1.9	0.48	1
14070	Perfluorooctanesulfonic acid	1763-23-1	24	1.9	0.48	1
14070	Perfluorooctanoic acid	335-67-1	3.6	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	19336008	12/05/2019 07:21	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19336008	12/02/2019 16:00	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

Project Name: **Newberry System**

Submittal Date/Time: 11/22/2019 15:23
Collection Date/Time: 11/20/2019 09:30

Suez Water Pennsylvania
ELLE Sample #: PW 1210349
ELLE Group #: 2076399
Matrix: Water

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	19342006	12/10/2019 19:31	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19342006	12/08/2019 16:00	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

Project Name: **Newberry System**

Submittal Date/Time: 11/22/2019 15:23
Collection Date/Time: 11/20/2019 09:35

Suez Water Pennsylvania
ELLE Sample #: EW 1210350
ELLE Group #: 2076399
Matrix: Water

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	19336008	12/05/2019 07:33	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19336008	12/02/2019 16:00	Anthony C Polaski	1

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

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Sample Description:	**7670061 302s DuPont After Lag Vessel FB** **Grab Water** **Newberry System**	**Suez Water Pennsylvania** **ELLE Sample #:**	**PW 1210351** **ELLE Group #:** **2076399**
Project Name:	**Newberry System**		
Submittal Date/Time:	11/22/2019 15:23		
Collection Date/Time:	11/20/2019 09:35		

Sample Comments

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

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

Project Name: **Newberry System**

Submittal Date/Time: 11/22/2019 15:23
Collection Date/Time: 11/20/2019 09:55

Suez Water Pennsylvania
ELLE Sample #: EW 1210352
ELLE Group #: 2076399
Matrix: Water

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	19336008	12/05/2019 07:44	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19336008	12/02/2019 16:00	Anthony C Polaski	1

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

Sample Description: **7670061 101 Conley Field Blank Grab Water**
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: **PW 1210353**
ELLE Group #: **2076399**

Project Name: **Newberry System**

Submittal Date/Time: 11/22/2019 15:23
Collection Date/Time: 11/20/2019 09:55

Sample Comments

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

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

Project Name: **Newberry System**

Submittal Date/Time: 11/22/2019 15:23
Collection Date/Time: 11/20/2019 09:20

Suez Water Pennsylvania
ELLE Sample #: EW 1210354
ELLE Group #: 2076399
Matrix: Water

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	19336008	12/05/2019 07:56	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	19336008	12/02/2019 16:00	Anthony C Polaski	1

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

Sample Description: **7670061 102 DuPont Field Blank Grab Water**
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: **PW 1210355**
ELLE Group #: **2076399**

Project Name: **Newberry System**

Submittal Date/Time: 11/22/2019 15:23
Collection Date/Time: 11/20/2019 09:20

Sample Comments

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

Quality Control Summary

Client Name: Suez Water Pennsylvania Group Number: 2076399
Reported: 12/20/2019 07:56

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: 19336008	Sample number(s): 1210332,1210334,1210336,1210338,1210340,1210342,1210344,1210346,1210348,1210350,1210352,1210354		
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: 19342006	Sample number(s): 1210333,1210337,1210339,1210343,1210345,1210347,1210349		
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: 19343008	Sample number(s): 1210335		
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

*- 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.

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Quality Control Summary

Client Name: Suez Water Pennsylvania
Reported: 12/20/2019 07:56

Group Number: 2076399

Method Blank (continued)

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

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: 19336008	Sample number(s): 1210332,1210334,1210336,1210338,1210340,1210342,1210344,1210346,1210348,1210350,1210352,1210354								
NEtFOSAA	20.48	18.96	20.48	21.19	93	103	70-130	11	30
NMeFOSAA	20.48	17.87	20.48	19.54	87	95	70-130	9	30
Perfluorobutanesulfonic acid	18.12	16.04	18.12	17.4	88	96	70-130	8	30
Perfluorodecanoic acid	20.48	19.23	20.48	21.19	94	103	70-130	10	30
Perfluorododecanoic acid	20.48	18.77	20.48	20.89	92	102	70-130	11	30
Perfluoroheptanoic acid	20.48	18.27	20.48	20.25	89	99	70-130	10	30
Perfluorohexanesulfonic acid	18.68	16.61	18.68	18.49	89	99	70-130	11	30
Perfluorohexanoic acid	20.48	18.59	20.48	20.45	91	100	70-130	10	30
Perfluorononanoic acid	20.48	18.66	20.48	20.35	91	99	70-130	9	30
Perfluorooctanesulfonic acid	18.96	17.56	18.96	19.19	93	101	70-130	9	30
Perfluorooctanoic acid	20.48	19.24	20.48	20.53	94	100	70-130	7	30
Perfluorotetradecanoic acid	20.48	17.33	20.48	18.69	85	91	70-130	8	30
Perfluorotridecanoic acid	20.48	18.34	20.48	18.6	90	91	70-130	1	30
Perfluoroundecanoic acid	20.48	18.83	20.48	20.99	92	103	70-130	11	30
Batch number: 19342006	Sample number(s): 1210333,1210337,1210339,1210343,1210345,1210347,1210349								
NEtFOSAA	80	78.69	80	83.96	98	105	70-130	6	30
NMeFOSAA	80	77.48	80	84.52	97	106	70-130	9	30
Perfluorobutanesulfonic acid	70.8	64.12	70.8	71.77	91	101	70-130	11	30
Perfluorodecanoic acid	80	76.97	80	86.59	96	108	70-130	12	30
Perfluorododecanoic acid	80	80.75	80	86.87	101	109	70-130	7	30
Perfluoroheptanoic acid	80	74.59	80	83.68	93	105	70-130	11	30
Perfluorohexanesulfonic acid	72.96	68.41	72.96	76.63	94	105	70-130	11	30
Perfluorohexanoic acid	80	74.72	80	86.58	93	108	70-130	15	30
Perfluorononanoic acid	80	80.44	80	86.92	101	109	70-130	8	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: 12/20/2019 07:56

Group Number: 2076399

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
Perfluorooctanesulfonic acid	74.04	69.38	74.04	77.24	94	104	70-130	11	30
Perfluorooctanoic acid	80	72.57	80	80.12	91	100	70-130	10	30
Perfluorotetradecanoic acid	80	78.78	80	85.4	98	107	70-130	8	30
Perfluorotridecanoic acid	80	82.06	80	82.5	103	103	70-130	1	30
Perfluoroundecanoic acid	80	74.86	80	84.31	94	105	70-130	12	30
Batch number: 19343008	Sample number(s): 1210335								
NEtFOSAA	3.84	3.83	3.84	3.98	100	104	50-150	4	30
NMeFOSAA	3.84	3.62	3.84	3.77	94	98	50-150	4	30
Perfluorobutanesulfonic acid	3.40	3.05	3.40	3.31	90	97	50-150	8	30
Perfluorodecanoic acid	3.84	3.60	3.84	4.02	94	105	50-150	11	30
Perfluorododecanoic acid	3.84	3.80	3.84	4.38	99	114	50-150	14	30
Perfluoroheptanoic acid	3.84	3.45	3.84	3.79	90	99	50-150	9	30
Perfluorohexanesulfonic acid	3.50	3.07	3.50	3.50	88	100	50-150	13	30
Perfluorohexanoic acid	3.84	3.58	3.84	3.63	93	95	50-150	1	30
Perfluorononanoic acid	3.84	3.58	3.84	3.90	93	102	50-150	9	30
Perfluorooctanesulfonic acid	3.55	3.10	3.55	3.47	87	98	50-150	11	30
Perfluorooctanoic acid	3.84	3.49	3.84	3.69	91	96	50-150	6	30
Perfluorotetradecanoic acid	3.84	3.78	3.84	4.01	99	104	50-150	6	30
Perfluorotridecanoic acid	3.84	4.32	3.84	4.72	112	123	50-150	9	30
Perfluoroundecanoic acid	3.84	3.74	3.84	4.18	97	109	50-150	11	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: 19336008

	13C2-PFHxA	13C2-PFDA	D5-NetFOSAA
1210332	95	96	96
1210334	99	95	98
1210336	95	88	86
1210338	94	99	98
1210340	81	78	78
1210342	96	91	92
1210344	94	92	99
1210346	95	92	100
1210348	98	98	93
1210350	97	93	102
1210352	93	90	95
1210354	96	98	97

*- 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: 12/20/2019 07:56

Group Number: 2076399

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: 19336008

	13C2-PFHxA	13C2-PFDA	D5-NetFOSAA
Blank	97	101	101
LCS	96	97	100
LCSD	98	99	103
Limits:	70-130	70-130	70-130

Analysis Name: 14 PFAS in Drinking Water
Batch number: 19342006

	13C2-PFHxA	13C2-PFDA	D5-NetFOSAA
1210333	95	96	93
1210337	92	91	86
1210339	107	102	101
1210343	95	88	93
1210345	83	83	79
1210347	89	79	81
1210349	100	102	97
Blank	107	98	96
LCS	99	100	97
LCSD	124	119	117
Limits:	70-130	70-130	70-130

Analysis Name: 14 PFAS in Drinking Water
Batch number: 19343008

	13C2-PFHxA	13C2-PFDA	D5-NetFOSAA
1210335	93	95	91
Blank	90	95	94
LCS	94	95	96
LCSD	89	93	88
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

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Acct. # 44297 Group # 2076399 Sample # 1210332-55

Client: **SUEZ WATER PA**

Project Name: Newberry System | Site ID #:

Project Manager: Elizabeth Bauer | P.O. #:

Sampler: Penny Bumbarger | PWSID #: 7670061

Phone #: 717-773-0185 | Quote #: 219948A

State where samples were collected: **PA** | For Compliance: Yes ☑ No ☐

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil ☐ Sediment ☐ Tissue ☐	Matrix: Water ☑ Potable ☐ Ground ☐ NPDES ☐ Surface ☐	Matrix: Other: GAC Filtered Water	Total # of Containers	Analyses Requested: PFAS (14) 537 v 1.1	Preservation and Filtration Codes: O
001 Playground Well	11/20/19	1015	X			X		2	X	
FB - Playground Well	11/20/19	1015						1	X	
005 Conley Well	11/20/19	1020	X			X		2	X	
FB - Conley Well	11/20/19	1020						1	X	
301s Conley Between Lead and Lag	11/20/19	1000	X				X	2	X	
FB - Conley Between Lead and Lag	11/20/19	1000						1	X	
301s Conley Lead Vessel Halfway Port	11/20/19	1010	X				X	2	X	
FB - Conely Lead Vessel Halfway Port	11/20/19	1010						1	X	
301s Conley After Lag	11/20/19	1005	X				X	2	X	
FB - Conely After Lag	11/20/19	1005						1	X	

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

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

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

Phone: 717-773-0185

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NJ DKQP ☐ NYSDEC Category ☐ A or ☐ B

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

Relinquished by:	Date	Time	Received by:	Date	Time
Penny Bumbarger	11/22/19	0955	Stan King	11.22.19	10:00
Stan King	11.22.19	15:15			

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 1.7 °C

For Lab Use Only

SF #: _____

SCR #: _____

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

Remarks

Monthly Compliance

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 44297 Group # 2676399 Sample # 1210332-55

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

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

Analyses Requested — Preservation and Filtration Codes: O

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil/Sediment/Tissue	Water	Other: GAC Filtered Water	Total # of Containers	PFAS (14) 537 v 1.1									
002 Coppersmith Well	11/20/19	0905	X			X		2	X									
FB - Coppersmith Well	11/20/19	0905						1	X									
003 DuPont Well	11/20/19	0940	X			X		2	X									
FB - DuPont Well	11/20/19	0940						1	X									
302s DuPont Between Lead and Lag	11/20/19	0925	X				X	2	X									
FB - DuPont Between Lead and Lag	11/20/19	0925						1	X									
302s DuPont Lead Vessel Halfway Port	11/20/19	0930	X				X	2	X									
FB - DuPont Lead Vessel Halfway Port	11/20/19	0930						1	X									
302s DuPont After Lag	11/20/19	0935	X				X	2	X									
FB - DuPont After Lag	11/20/19	0935						1	X									

For Lab Use Only

SF #: ______

SCR #: ______

Preservation Codes

H = HCl T = Thiosulfate

N = HNO_3 B = NaOH

S = H_2SO_4 P = H_3PO_4

F = Field Filtered O = Other

Remarks

Monthly Compliance

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

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

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

Phone: 717-773-0185

Relinquished by:	Date	Time	Received by:	Date	Time
Penny Bumbarger	11/22/19	0955	Stan King	11.22.19	10:00
Stan King	11/22/19	15:05			
			[signature]	11-22-19	1505

Relinquished by Commercial Carrier:

UPS ______ FedEx ______ Other ______

Temperature upon receipt 1.7 °C

Data Package Options (please check if required)

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

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

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 7045 0717

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 44297 Group # 2076399 Sample # 1210332-55

Client: **SUEZ WATER PA**

Project Name: Newberry System | Site ID #:

Project Manager: Elizabeth Bauer | P.O. #:

Sampler: Penny Bumbarger | PWSID #: 7670061

Phone #: 717-773-0185 | Quote #: 219948A

State where samples were collected: **PA** | For Compliance: Yes ☑ No ☐

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil ☐ Sediment ☐ Tissue ☐	Water: Potable ☑ Ground ☐ NPDES ☐ Surface ☐	Other: GAC Filtered Water ☐	Total # of Containers	Analyses Requested: PFAS (14) 537 v 1.1	Preservation and Filtration Codes: O
EP 101 Conley	11/20/19	0955	X			X		2	X	
FB - EP 101 Conley	11/20/19	0955						1	X	
Batch QC - EP 101 Conley	11/20/19	0955	X			X		1	X	
EP 102 DuPont	11/20/19	0920	X			X		2		
FB - EP 102 DuPont	11/20/19	0920						1	X	
Batch QC - EP 102 DuPont	11/20/19	0920	X			X		1	X	

For Lab Use Only

SF #: _____

SCR #: _____

Preservation Codes

H = HCl | T = Thiosulfate

N = HNO_3 | B = NaOH

S = H_2SO_4 | P = H_3PO_4

F = Field Filtered | O = Other

Remarks

Monthly Compliance

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

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

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

Phone: 717-773-0185

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NJ DKQP ☐ NYSDEC Category ☐ A or ☐ B

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

Relinquished by:	Date	Time	Received by:	Date	Time
Penny Bumbarger	11/22/19	0955	Stan King	11.22.19	10:00
Stan Kay	11.22.19	15:05			

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 1.7 °C

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 267581

Group Number(s): 2076399

Client: SUEZ WATER PA

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Date:	11/22/2019
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	Pennsylvania		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	No
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 Julissa Rivera-Santa

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	1.7	DT	Wet	Y	Bagged	N

Sample ID Discrepancy Details

Sample ID on COC	Sample ID on Label	Comments
FB COPPERSMITH WELL	FB 002 COPPERSMITH WELL	

2425 New Holland Pike
Lancaster, PA 17605-2425

T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

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.

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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 >= 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.