



ANALYSIS REPORT

Prepared by:

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Prepared for:

Suez Water Pennsylvania
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Report Date: February 25, 2020 10:46

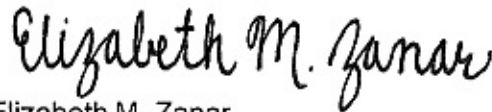
Project: Newberry System

Account #: 44297
Group Number: 2087045
State of Sample Origin: PA

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

Attn: Penny Bumbarger
Attn: Shawn Wiley

Respectfully Submitted,



Elizabeth M. Zanar
Project Manager

(717) 556-7290

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SAMPLE INFORMATION

<u>Client Sample Description</u>	<u>Sample Collection Date/Time</u>	<u>ELLE#</u>
7670061 009 Susq Vill Well 1	02/06/2020 11:35	1256464
7670061 009 Susq Vill Well 1 FB	02/06/2020 11:35	1256465
7670061 010 Susq Vill Well 2	02/06/2020 11:40	1256466
7670061 010 Susq Vill Well 2 FB	02/06/2020 11:40	1256467
7670061 011 Paddletown Well	02/06/2020 10:50	1256468
7670061 011 Paddletown Well FB	02/06/2020 10:50	1256469
7670061 006 Eden Well	02/06/2020 10:15	1256470
7670061 006 Eden Well FB	02/06/2020 10:15	1256471
7670061 007 Reeser Well 1	02/06/2020 11:05	1256472
7670061 007 Reeser Well 1 FB	02/06/2020 11:05	1256473
7670061 008 Reeser Well 2	02/06/2020 11:15	1256474
7670061 008 Reeser Well 2 FB	02/06/2020 11:15	1256475

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

Sample Description: 7670061 009 Susq Vill Well 1
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: EW 1256464
ELLE Group #: 2087045
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 02/07/2020 16:15
Collection Date/Time: 02/06/2020 11:35

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	< 1.8	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	5.1	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	2.3	1.8	0.46	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.46	1
14070	Perfluorooctanesulfonic acid	1763-23-1	6.1	1.8	0.46	1
14070	Perfluorooctanoic acid	335-67-1	3.9	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: 01/31/2021.

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	20044020	02/17/2020 22:23	Mark Collare	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20044020	02/13/2020 16:30	Isaac Phillips-Cary	1

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

Sample Description: 7670061 009 Susq Vill Well 1 FB
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: PW 1256465
ELLE Group #: 2087045
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 02/07/2020 16:15
Collection Date/Time: 02/06/2020 11:35

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	< 1.8	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: 01/31/2021.

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	20049032	02/20/2020 23:42	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20049032	02/18/2020 16:30	Isaac Phillips-Cary	1

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

Sample Description: 7670061 010 Susq Vill Well 2
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: EW 1256466
ELLE Group #: 2087045
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 02/07/2020 16:15
Collection Date/Time: 02/06/2020 11:40

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	< 1.9	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	4.7	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	< 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	2.2	1.9	0.48	1
14070	Perfluorononanoic acid	375-95-1	< 1.9	1.9	0.48	1
14070	Perfluorooctanesulfonic acid	1763-23-1	5.6	1.9	0.48	1
14070	Perfluorooctanoic acid	335-67-1	3.5	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: 01/31/2021.

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	20044020	02/17/2020 22:35	Mark Collare	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20044020	02/13/2020 16:30	Isaac Phillips-Cary	1

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

Sample Description: 7670061 010 Susq Vill Well 2 FB
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: PW 1256467
ELLE Group #: 2087045
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 02/07/2020 16:15
Collection Date/Time: 02/06/2020 11:40

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	0.46	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

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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	20050014	02/21/2020 20:35	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20050014	02/19/2020 16:30	Isaac Phillips-Cary	1

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

Sample Description: 7670061 011 Paddletown Well
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: EW 1256468
ELLE Group #: 2087045
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 02/07/2020 16:15
Collection Date/Time: 02/06/2020 10:50

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 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: 01/31/2021.

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	20044020	02/17/2020 22:46	Mark Collare	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20044020	02/13/2020 16:30	Isaac Phillips-Cary	1

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

Sample Description: 7670061 011 Paddletown Well FB
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: PW 1256469
ELLE Group #: 2087045
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 02/07/2020 16:15
Collection Date/Time: 02/06/2020 10:50

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 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: 01/31/2021.

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	20050014	02/21/2020 20:47	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20050014	02/19/2020 16:30	Isaac Phillips-Cary	1

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

Sample Description: 7670061 006 Eden Well
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: EW 1256470
ELLE Group #: 2087045
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 02/07/2020 16:15
Collection Date/Time: 02/06/2020 10:15

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	3.4	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	1.9	1.8	0.46	1
14070	Perfluorohexanesulfonic acid	355-46-4	3.2	1.8	0.46	1
14070	Perfluorohexanoic acid	307-24-4	3.2	1.8	0.46	1
14070	Perfluorononanoic acid	375-95-1	< 1.8	1.8	0.46	1
14070	Perfluorooctanesulfonic acid	1763-23-1	7.1	1.8	0.46	1
14070	Perfluorooctanoic acid	335-67-1	4.6	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: 01/31/2021.

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	20044020	02/17/2020 22:58	Mark Collare	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20044020	02/13/2020 16:30	Isaac Phillips-Cary	1

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

Sample Description: 7670061 006 Eden Well FB
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: PW 1256471
ELLE Group #: 2087045
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 02/07/2020 16:15
Collection Date/Time: 02/06/2020 10:15

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: 01/31/2021.

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	20050014	02/21/2020 20:58	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20050014	02/19/2020 16:30	Isaac Phillips-Cary	1

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

Sample Description: 7670061 007 Reeser Well 1
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: EW 1256472
ELLE Group #: 2087045
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 02/07/2020 16:15
Collection Date/Time: 02/06/2020 11:05

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	< 1.7	1.7	0.44	1
14070	NMeFOSAA NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	< 1.7	1.7	0.44	1
14070	Perfluorobutanesulfonic acid	375-73-5	3.4	1.7	0.44	1
14070	Perfluorodecanoic acid	335-76-2	< 1.7	1.7	0.44	1
14070	Perfluorododecanoic acid	307-55-1	< 1.7	1.7	0.44	1
14070	Perfluoroheptanoic acid	375-85-9	< 1.7	1.7	0.44	1
14070	Perfluorohexanesulfonic acid	355-46-4	2.6	1.7	0.44	1
14070	Perfluorohexanoic acid	307-24-4	< 1.7	1.7	0.44	1
14070	Perfluorononanoic acid	375-95-1	< 1.7	1.7	0.44	1
14070	Perfluorooctanesulfonic acid	1763-23-1	4.0	1.7	0.44	1
14070	Perfluorooctanoic acid	335-67-1	3.0	1.7	0.44	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.7	1.7	0.44	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.7	1.7	0.44	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.7	1.7	0.44	1

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 01/31/2021.

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	20044020	02/17/2020 23:21	Mark Collare	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20044020	02/13/2020 16:30	Isaac Phillips-Cary	1

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

Sample Description: 7670061 007 Reeser Well 1 FB
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: PW 1256473
ELLE Group #: 2087045
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 02/07/2020 16:15
Collection Date/Time: 02/06/2020 11:05

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: 01/31/2021.

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	20049032	02/20/2020 23:54	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20049032	02/18/2020 16:30	Isaac Phillips-Cary	1

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

Sample Description: 7670061 008 Reeser Well 2
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: EW 1256474
ELLE Group #: 2087045
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 02/07/2020 16:15
Collection Date/Time: 02/06/2020 11:15

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	< 1.7	1.7	0.43	1
14070	NMeFOSAA NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	< 1.7	1.7	0.43	1
14070	Perfluorobutanesulfonic acid	375-73-5	3.0	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	2.8	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	4.3	1.7	0.43	1
14070	Perfluorooctanoic acid	335-67-1	3.0	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

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 01/31/2021.

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	20044022	02/17/2020 18:44	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20044022	02/13/2020 16:30	Isaac Phillips-Cary	1

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

Sample Description: 7670061 008 Reeser Well 2 FB
Grab Water
Newberry System

Suez Water Pennsylvania
ELLE Sample #: PW 1256475
ELLE Group #: 2087045
Matrix: Water

Project Name: Newberry System

Submittal Date/Time: 02/07/2020 16:15
Collection Date/Time: 02/06/2020 11:15

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	< 1.7	1.7	0.44	1
14070	NMeFOSAA NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid.	2355-31-9	< 1.7	1.7	0.44	1
14070	Perfluorobutanesulfonic acid	375-73-5	< 1.7	1.7	0.44	1
14070	Perfluorodecanoic acid	335-76-2	< 1.7	1.7	0.44	1
14070	Perfluorododecanoic acid	307-55-1	< 1.7	1.7	0.44	1
14070	Perfluoroheptanoic acid	375-85-9	< 1.7	1.7	0.44	1
14070	Perfluorohexanesulfonic acid	355-46-4	< 1.7	1.7	0.44	1
14070	Perfluorohexanoic acid	307-24-4	< 1.7	1.7	0.44	1
14070	Perfluorononanoic acid	375-95-1	< 1.7	1.7	0.44	1
14070	Perfluorooctanesulfonic acid	1763-23-1	< 1.7	1.7	0.44	1
14070	Perfluorooctanoic acid	335-67-1	< 1.7	1.7	0.44	1
14070	Perfluorotetradecanoic acid	376-06-7	< 1.7	1.7	0.44	1
14070	Perfluorotridecanoic acid	72629-94-8	< 1.7	1.7	0.44	1
14070	Perfluoroundecanoic acid	2058-94-8	< 1.7	1.7	0.44	1

Sample Comments

PA DEP Lab Certification ID 36-00037, Expiration Date: 01/31/2021.

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	20049032	02/20/2020 16:59	Marissa C Drexinger	1
14381	DW PFAS Prep	EPA 537 Version 1.1	1	20049032	02/18/2020 16:30	Isaac Phillips-Cary	1

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

Quality Control Summary

Client Name: Suez Water Pennsylvania
Reported: 02/25/2020 10:46

Group Number: 2087045

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: 20044020	Sample number(s): 1256464,1256466,1256468,1256470,1256472		
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: 20044022	Sample number(s): 1256474		
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: 20049032	Sample number(s): 1256465,1256473,1256475		
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: 02/25/2020 10:46

Group Number: 2087045

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
Batch number: 20050014	Sample number(s): 1256467,1256469,1256471		
NEtFOSAA	< 2.0	2.0	0.50
NMeFOSAA	< 2.0	2.0	0.50
Perfluorobutanesulfonic acid	< 2.0	2.0	0.50
Perfluorodecanoic acid	< 2.0	2.0	0.50
Perfluorododecanoic acid	< 2.0	2.0	0.50
Perfluoroheptanoic acid	< 2.0	2.0	0.50
Perfluorohexanesulfonic acid	< 2.0	2.0	0.50
Perfluorohexanoic acid	< 2.0	2.0	0.50
Perfluorononanoic acid	< 2.0	2.0	0.50
Perfluorooctanesulfonic acid	< 2.0	2.0	0.50
Perfluorooctanoic acid	< 2.0	2.0	0.50
Perfluorotetradecanoic acid	< 2.0	2.0	0.50
Perfluorotridecanoic acid	< 2.0	2.0	0.50
Perfluoroundecanoic acid	< 2.0	2.0	0.50

LCS/LCSD

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: 20044020	Sample number(s): 1256464,1256466,1256468,1256470,1256472								
NEtFOSAA	20.48	17.37	20.48	18.9	85	92	70-130	8	30
NMeFOSAA	20.48	17.08	20.48	17.76	83	87	70-130	4	30
Perfluorobutanesulfonic acid	18.12	15.2	18.12	16.03	84	88	70-130	5	30
Perfluorodecanoic acid	20.48	17.65	20.48	18.62	86	91	70-130	5	30
Perfluorododecanoic acid	20.48	18.45	20.48	20.58	90	100	70-130	11	30
Perfluoroheptanoic acid	20.48	18.02	20.48	17.73	88	87	70-130	2	30
Perfluorohexanesulfonic acid	18.68	16.08	18.68	15.63	86	84	70-130	3	30
Perfluorohexanoic acid	20.48	17.77	20.48	18.55	87	91	70-130	4	30
Perfluorononanoic acid	20.48	18.47	20.48	18.89	90	92	70-130	2	30
Perfluorooctanesulfonic acid	18.96	16.27	18.96	17.39	86	92	70-130	7	30
Perfluorooctanoic acid	20.48	17.55	20.48	18.47	86	90	70-130	5	30
Perfluorotetradecanoic acid	20.48	17.47	20.48	18.55	85	91	70-130	6	30
Perfluorotridecanoic acid	20.48	18.42	20.48	20.01	90	98	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: 02/25/2020 10:46

Group Number: 2087045

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	20.48	18.37	20.48	19.14	90	93	70-130	4	30
Batch number: 20044022	Sample number(s): 1256474								
NEtFOSAA	80	73.96	80	69.42	92	87	70-130	6	30
NMeFOSAA	80	68.83	80	66.98	86	84	70-130	3	30
Perfluorobutanesulfonic acid	70.8	59.92	70.8	60.98	85	86	70-130	2	30
Perfluorodecanoic acid	80	66.36	80	69.53	83	87	70-130	5	30
Perfluorododecanoic acid	80	70.74	80	75.38	88	94	70-130	6	30
Perfluoroheptanoic acid	80	64.52	80	68.56	81	86	70-130	6	30
Perfluorohexanesulfonic acid	72.96	60.49	72.96	62.09	83	85	70-130	3	30
Perfluorohexanoic acid	80	67.66	80	66.83	85	84	70-130	1	30
Perfluorononanoic acid	80	67.38	80	72.06	84	90	70-130	7	30
Perfluorooctanesulfonic acid	74.04	63.26	74.04	64.66	85	87	70-130	2	30
Perfluorooctanoic acid	80	67.42	80	66.65	84	83	70-130	1	30
Perfluorotetradecanoic acid	80	68.58	80	68.69	86	86	70-130	0	30
Perfluorotridecanoic acid	80	68.95	80	70.6	86	88	70-130	2	30
Perfluoroundecanoic acid	80	71.85	80	70.75	90	88	70-130	2	30
Batch number: 20049032	Sample number(s): 1256465,1256473,1256475								
NEtFOSAA	3.84	3.30			86		50-150		
NMeFOSAA	3.84	3.16			82		50-150		
Perfluorobutanesulfonic acid	3.40	2.66			78		50-150		
Perfluorodecanoic acid	3.84	3.30			86		50-150		
Perfluorododecanoic acid	3.84	3.20			83		50-150		
Perfluoroheptanoic acid	3.84	3.01			78		50-150		
Perfluorohexanesulfonic acid	3.50	2.45			70		50-150		
Perfluorohexanoic acid	3.84	2.97			77		50-150		
Perfluorononanoic acid	3.84	3.08			80		50-150		
Perfluorooctanesulfonic acid	3.55	3.01			85		50-150		
Perfluorooctanoic acid	3.84	3.08			80		50-150		
Perfluorotetradecanoic acid	3.84	2.97			77		50-150		
Perfluorotridecanoic acid	3.84	3.26			85		50-150		
Perfluoroundecanoic acid	3.84	3.19			83		50-150		
Batch number: 20050014	Sample number(s): 1256467,1256469,1256471								
NEtFOSAA	3.84	3.92	3.84	3.93	102	102	50-150	0	30
NMeFOSAA	3.84	3.81	3.84	3.94	99	103	50-150	3	30
Perfluorobutanesulfonic acid	3.40	3.19	3.40	3.24	94	95	50-150	1	30
Perfluorodecanoic acid	3.84	3.71	3.84	3.86	97	101	50-150	4	30
Perfluorododecanoic acid	3.84	3.76	3.84	3.90	98	102	50-150	4	30
Perfluoroheptanoic acid	3.84	3.71	3.84	3.75	97	98	50-150	1	30
Perfluorohexanesulfonic acid	3.50	3.47	3.50	3.35	99	96	50-150	3	30
Perfluorohexanoic acid	3.84	3.65	3.84	3.71	95	97	50-150	2	30
Perfluorononanoic acid	3.84	3.83	3.84	3.90	100	101	50-150	2	30
Perfluorooctanesulfonic acid	3.55	3.40	3.55	3.62	96	102	50-150	6	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: 02/25/2020 10:46

Group Number: 2087045

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
Perfluorooctanoic acid	3.84	3.89	3.84	3.93	101	102	50-150	1	30
Perfluorotetradecanoic acid	3.84	3.62	3.84	3.65	94	95	50-150	1	30
Perfluorotridecanoic acid	3.84	3.68	3.84	3.76	96	98	50-150	2	30
Perfluoroundecanoic acid	3.84	3.94	3.84	3.84	103	100	50-150	3	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: 20044020

	13C2-PFHxA	13C2-PFDA	D5-NetFOSAA
1256464	91	84	85
1256466	97	98	94
1256468	100	100	94
1256470	93	93	94
1256472	100	94	90
Blank	89	91	93
LCS	99	99	95
LCSD	96	100	97
Limits:	70-130	70-130	70-130

Analysis Name: 14 PFAS in Drinking Water
Batch number: 20044022

	13C2-PFHxA	13C2-PFDA	D5-NetFOSAA
1256474	92	92	94
Blank	93	97	101
LCS	100	97	106
LCSD	92	94	96
Limits:	70-130	70-130	70-130

Analysis Name: 14 PFAS in Drinking Water
Batch number: 20049032

	13C2-PFHxA	13C2-PFDA	D5-NetFOSAA
1256465	88	93	89
1256473	91	95	89
1256475	90	90	92
Blank	85	87	85

*- 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: 02/25/2020 10:46

Group Number: 2087045

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: 20049032

	13C2-PFHxA	13C2-PFDA	D5-NetFOSAA
LCS	91	101	103
Limits:	70-130	70-130	70-130

Analysis Name: 14 PFAS in Drinking Water
Batch number: 20050014

	13C2-PFHxA	13C2-PFDA	D5-NetFOSAA
1256467	103	110	105
1256469	101	107	99
1256471	102	106	100
Blank	97	103	97
LCS	97	108	101
LCSD	97	101	98
Limits:	70-130	70-130	70-130

*- Outside of specification

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

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

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

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 44297 Group # 2087045 Sample # 1256464-75

Client: SUEZ WATER PA				Matrix				Analyses Requested								For Lab Use Only																																																																																	
Project Name: Newberry System				Site ID #:				Preservation and Filtration Codes								SF #:																																																																																	
Project Manager: Elizabeth Zanar				P.O. #:				<table border="1" style="width: 100%; height: 100%; text-align: center;"> <tr> <td style="width: 5%;">O</td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> <td style="width: 5%;"></td> </tr> </table>								O																SCR #:																																																																	
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Sampler: Penny Bumbarger				PWSID #: 7670061				<table border="1" style="width: 100%; height: 100%; text-align: center;"> <tr> <td colspan="16" style="text-align: center;">Preservation Codes</td> </tr> <tr> <td colspan="8">H = HCl</td> <td colspan="8">T = Thiosulfate</td> </tr> <tr> <td colspan="8">N = HNO₃</td> <td colspan="8">B = NaOH</td> </tr> <tr> <td colspan="8">S = H₂SO₄</td> <td colspan="8">P = H₃PO₄</td> </tr> <tr> <td colspan="8">F = Field Filtered</td> <td colspan="8">O = Other</td> </tr> </table>								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									
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F = Field Filtered								O = Other																																																																																									
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010 Susq Vill Well 2			2/6/20	1140	X																																																																																												
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011 Paddletown Well			2/6/20	1050	X																																																																																												
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E-mail Address: penny.bumbarger@suez.com				Relinquished by:				Date	Time	Received by:				Date	Time																																																																																		
Phone: 717-773-0185				Relinquished by:				Date	Time	Received by:				Date	Time																																																																																		
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EDD Required? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, format: _____				Relinquished by Commercial Carrier:				Date	Time	Received by:				Date	Time																																																																																		
				UPS _____ FedEx _____ Other _____				Temperature upon receipt: 0.9-1.6 °C																																																																																									

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories
Environmental

Acct. # 44297 Group # 2087045

Sample # 1256464-75

Client: SUEZ WATER PA		Site ID #:		Matrix <input type="checkbox"/> Sediment <input type="checkbox"/> Tissue <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Water <input type="checkbox"/> NPDES Other: <input type="checkbox"/> GAC Filtered Water		Analyses Requested Preservation and Filtration Codes O										For Lab Use Only													
Project Name: Newberry System		P.O. #:				PFAS (14) 537 v 1.1										SF #: _____													
Project Manager: Elizabeth Zanar		PWSID #: 7670061														SCR #: _____													
Sampler: Penny Bumbarger		Quote #: 219948A														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													
Phone #: 717-773-0185		State where samples were collected: PA		For Compliance: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																									
Sample Identification		Collection		Grab	Composite	Soil		Water		Other: GAC Filtered Water	Total # of Containers											Remarks							
		Date	Time																										
006 Eden Well		2/6/20	1015	X				X			2	X											Quarterly Compliance						
FB - Eden Well		2/4/20	1015								2	X																	
007 Reeser Well 1		2/6/20	1105	X				X			2	X																	
FB - Reeser Well 1		2/6/20	1105								2	X																	
008 Reeser Well 2		2/6/20	1115	X				X			2	X																	
FB - Reeser Well 2		2/6/20	1115								2	X																	
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Date results are needed:				Relinquished by: [Signature]		Date	Time	Received by: [Signature]		Date	Time																		
Rush results requested by (please check): E-Mail <input checked="" type="checkbox"/> Phone <input type="checkbox"/>				Relinquished by: [Signature]		Date	Time	Received by: [Signature]		Date	Time																		
E-mail Address: penny.bumbarger@suez.com				Relinquished by: [Signature]		Date	Time	Received by: [Signature]		Date	Time																		
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EDD Required? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, format: _____				Relinquished by Commercial Carrier:																									
				UPS _____ FedEx _____ Other _____						Temperature upon receipt 0.9-1.6 °C																			



2087048

Client: Suez Water PA

Delivery and Receipt Information

Delivery Method: ELLE Courier Arrival Date: 02/07/2020
 Number of Packages: 2 Number of Projects: 4
 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 Cory Jeremiah

Samples Chilled Details

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

Cooler #	Matrix	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	Water	DT42-03	1.6	DT	Wet	Y	Bagged	N
2	Water	DT42-03	0.9	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.

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

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Data Qualifiers

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

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