

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA Method 537.1 Safe Drinking Water Analysis

Customer: Rhinelander Water Utility NLS Project: 370615

Project Description: PFAS Analysis

Project Title: Template: SCI2537.1 Printed: 08/19/2021 10:01

Sample: 1269218 1553 S Oneida Collected: 08/03/21 Analyzed: 08/17/21 - Analytes: 18

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Perfluorohexanoic acid (PFHxA)	[1.56]	ng/L	1	1.1	3.6		J
Perfluoroheptanoic acid (PFHpA)	[1.39]	ng/L	1	0.74	2.5		J
Perfluorooctanoic acid (PFOA)	2.21	ng/L	1	0.66	2.2		
Perfluorononanoic acid (PFNA)	ND	ng/L	1	0.87	2.9		
Perfluorodecanoic acid (PFDA)	ND	ng/L	1	0.65	2.2		
Perfluoroundecanoic acid (PFUnA)	ND	ng/L	1	0.99	3.3		
Perfluorododecanoic acid (PFDoA)	ND	ng/L	1	0.88	2.9		
Perfluorotridecanoic acid (PFTriA)	ND	ng/L	1	0.69	2.3		
Perfluorotetradecanoic acid (PFTeA)	ND	ng/L	1	0.85	2.8		
Perfluorobutanesulfonic acid (PFBS)	ND	ng/L	1	0.51	1.7		
Perfluorohexanesulfonic acid (PFHxS)	ND	ng/L	1	0.82	2.7		
Perfluorooctanesulfonic acid (PFOS)	[0.91]	ng/L	1	0.70	2.3		J
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND	ng/L	1	0.50	1.7		
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND	ng/L	1	0.76	2.5		
Hexafluoropropylene oxide dimer acid (GenX)	ND	ng/L	1	0.83	2.8		
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND	ng/L	1	0.82	2.7		
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND	ng/L	1	0.75	2.5		
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	ng/L	1	0.88	2.9		
C13-PFHxA (SURR)	86.3%		1				S
C13-HFPODA (SURR)	88.7%		1				S
C13-PFDA (SURR)	71.1%		1				S
d5-NEtFOSAA (SURR)	82.7%		1				S

NOTES APPLICABLE TO THIS ANALYSIS:

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.

S = This compound is a surrogate used to evaluate the quality control of a method.

The internal standard, C13-PFOA, area count was outside QC limits on the matrix duplicate Field Sample.

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA Method 537.1 Safe Drinking Water Analysis

Customer: Rhinelander Water Utility NLS Project: 370615

Project Description: PFAS Analysis

Project Title: Template: SCI2537.1 Printed: 08/19/2021 10:01

Sample: 1269219 - 1549 S Oneida Collected: 08/03/21 Analyzed: 08/18/21 - Analytes: 18

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Perfluorohexanoic acid (PFHxA)	5.74	ng/L	1	1.1	3.6		
Perfluoroheptanoic acid (PFHpA)	4.2	ng/L	1	0.74	2.5		
Perfluorooctanoic acid (PFOA)	4.5	ng/L	1	0.66	2.2		
Perfluorononanoic acid (PFNA)	ND	ng/L	1	0.87	2.9		
Perfluorodecanoic acid (PFDA)	ND	ng/L	1	0.65	2.2		
Perfluoroundecanoic acid (PFUnA)	ND	ng/L	1	0.99	3.3		
Perfluorododecanoic acid (PFDoA)	ND	ng/L	1	0.88	2.9		
Perfluorotridecanoic acid (PFTriA)	ND	ng/L	1	0.69	2.3		
Perfluorotetradecanoic acid (PFTeA)	ND	ng/L	1	0.85	2.8		
Perfluorobutanesulfonic acid (PFBS)	ND	ng/L	1	0.51	1.7		
Perfluorohexanesulfonic acid (PFHxS)	ND	ng/L	1	0.82	2.7		
Perfluorooctanesulfonic acid (PFOS)	[2.03]	ng/L	1	0.70	2.3		J
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND	ng/L	1	0.50	1.7		
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND	ng/L	1	0.76	2.5		
Hexafluoropropylene oxide dimer acid (GenX)	ND	ng/L	1	0.83	2.8		
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND	ng/L	1	0.82	2.7		
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND	ng/L	1	0.75	2.5		
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	ng/L	1	0.88	2.9		
C13-PFHxA (SURR)	82.7%		1				S
C13-HFPODA (SURR)	82.5%		1				S
C13-PFDA (SURR)	73%		1				S
d5-NEtFOSAA (SURR)	97.9%		1				S

NOTES APPLICABLE TO THIS ANALYSIS:

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ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA Method 537.1 Safe Drinking Water Analysis

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Customer: Rhinelander Water Utility NLS Project: 370615

Project Description: PFAS Analysis

Project Title: Template: SCI2537.1 Printed: 08/19/2021 10:01

Sample: 1269220 1409 Phillip Street Collected: 08/03/21 Analyzed: 08/18/21 Analytes: 18

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Perfluorohexanoic acid (PFHxA)	[3.16]	ng/L	1	1.1	3.6		J
Perfluoroheptanoic acid (PFHpA)	2.54	ng/L	1	0.74	2.5		
Perfluorooctanoic acid (PFOA)	4.91	ng/L	1	0.66	2.2		
Perfluorononanoic acid (PFNA)	ND	ng/L	1	0.87	2.9		
Perfluorodecanoic acid (PFDA)	ND	ng/L	1	0.65	2.2		
Perfluoroundecanoic acid (PFUnA)	ND	ng/L	1	0.99	3.3		
Perfluorododecanoic acid (PFDoA)	ND	ng/L	1	0.88	2.9		
Perfluorotridecanoic acid (PFTriA)	ND	ng/L	1	0.69	2.3		
Perfluorotetradecanoic acid (PFTeA)	ND	ng/L	1	0.85	2.8		
Perfluorobutanesulfonic acid (PFBS)	[1.29]	ng/L	1	0.51	1.7		J
Perfluorohexanesulfonic acid (PFHxS)	[1.77]	ng/L	1	0.82	2.7		J
Perfluorooctanesulfonic acid (PFOS)	[0.81]	ng/L	1	0.70	2.3		J
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND	ng/L	1	0.50	1.7		
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEFOSAA)	ND	ng/L	1	0.76	2.5		
Hexafluoropropylene oxide dimer acid (GenX)	ND	ng/L	1	0.83	2.8		
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND	ng/L	1	0.82	2.7		
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND	ng/L	1	0.75	2.5		
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	ng/L	1	0.88	2.9		
C13-PFHxA (SURR)	81.2%		1				S
C13-HFPODA (SURR)	82.6%		1				S
C13-PFDA (SURR)	71.4%		1				S
d5-NEFOSAA (SURR)	91.7%		1				S

NOTES APPLICABLE TO THIS ANALYSIS:

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ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA Method 537.1 Safe Drinking Water Analysis

Customer: Rhinelander Water Utility NLS Project: 370615

Project Description: PFAS Analysis

Project Title: Template: SCI2537.1 Printed: 08/19/2021 10:01

Sample: 1269221 3401 Fox Ranch Road Collected: 08/03/21 Analyzed: 08/18/21 - Analytes: 18

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Perfluorohexanoic acid (PFHxA)	[2.28]	ng/L	1	1.1	3.6		J
Perfluoroheptanoic acid (PFHpA)	[1.57]	ng/L	1	0.74	2.5		J
Perfluorooctanoic acid (PFOA)	3.27	ng/L	1	0.66	2.2		
Perfluorononanoic acid (PFNA)	ND	ng/L	1	0.87	2.9		
Perfluorodecanoic acid (PFDA)	ND	ng/L	1	0.65	2.2		
Perfluoroundecanoic acid (PFUnA)	ND	ng/L	1	0.99	3.3		
Perfluorododecanoic acid (PFDoA)	ND	ng/L	1	0.88	2.9		
Perfluorotridecanoic acid (PFTrIA)	ND	ng/L	1	0.69	2.3		
Perfluorotetradecanoic acid (PFTeA)	ND	ng/L	1	0.85	2.8		
Perfluorobutanesulfonic acid (PFBS)	[1.54]	ng/L	1	0.51	1.7		J
Perfluorohexanesulfonic acid (PFHxS)	12.1	ng/L	1	0.82	2.7		
Perfluorooctanesulfonic acid (PFOS)	[0.94]	ng/L	1	0.70	2.3		J
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND	ng/L	1	0.50	1.7		
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEFOSAA)	ND	ng/L	1	0.76	2.5		
Hexafluoropropylene oxide dimer acid (GenX)	ND	ng/L	1	0.83	2.8		
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND	ng/L	1	0.82	2.7		
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND	ng/L	1	0.75	2.5		
11-chloroicosadecafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	ng/L	1	0.88	2.9		
C13-PFHxA (SURR)	82.6%		1				S
C13-HFPODA (SURR)	87.3%		1				S
C13-PFDA (SURR)	73.3%		1				S
d5-NEFOSAA (SURR)	93.4%		1				S

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ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA Method 537.1 Safe Drinking Water Analysis

Customer: Rhinelander Water Utility NLS Project: 370615

Project Description: PFAS Analysis

Project Title: Template: SCI2537.1 Printed: 08/19/2021 10:01

Sample: 1269222 3400 Fox Ranch Road Collected: 08/03/21 Analyzed: 08/17/21 - Analytes: 18

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Perfluorohexanoic acid (PFHxA)	ND	ng/L	1	1.1	3.6		
Perfluoroheptanoic acid (PFHpA)	ND	ng/L	1	0.74	2.5		
Perfluorooctanoic acid (PFOA)	ND	ng/L	1	0.66	2.2		
Perfluorononanoic acid (PFNA)	ND	ng/L	1	0.87	2.9		
Perfluorodecanoic acid (PFDA)	ND	ng/L	1	0.65	2.2		
Perfluoroundecanoic acid (PFUnA)	ND	ng/L	1	0.99	3.3		
Perfluorododecanoic acid (PFDoA)	ND	ng/L	1	0.88	2.9		
Perfluorotridecanoic acid (PFTrIA)	ND	ng/L	1	0.69	2.3		
Perfluorotetradecanoic acid (PFTeA)	ND	ng/L	1	0.85	2.8		
Perfluorobutanesulfonic acid (PFBS)	ND	ng/L	1	0.51	1.7		
Perfluorohexanesulfonic acid (PFHxS)	ND	ng/L	1	0.82	2.7		
Perfluorooctanesulfonic acid (PFOS)	ND	ng/L	1	0.70	2.3		
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND	ng/L	1	0.50	1.7		
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND	ng/L	1	0.76	2.5		
Hexafluoropropylene oxide dimer acid (GenX)	ND	ng/L	1	0.83	2.8		
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND	ng/L	1	0.82	2.7		
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND	ng/L	1	0.75	2.5		
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	ng/L	1	0.88	2.9		
C13-PFHxA (SURR)	80.9%		1				S
C13-HFPODA (SURR)	90.4%		1				S
C13-PFDA (SURR)	70.6%		1				S
d5-NEtFOSAA (SURR)	85.9%		1				S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA Method 537.1 Safe Drinking Water Analysis

Customer: Rhinelander Water Utility NLS Project: 370785

Project Description: PFAS Analysis

Project Title: Template: SCI2537.1 Printed: 08/19/2021 10:01

Sample: 1269750 Clubhouse Well Collected: 08/05/21 Analyzed: 08/17/21 Analytes: 18

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Perfluorohexanoic acid (PFHxA)	ND	ng/L	1	1.1	3.6		
Perfluoroheptanoic acid (PFHpA)	ND	ng/L	1	0.74	2.5		
Perfluorooctanoic acid (PFOA)	ND	ng/L	1	0.66	2.2		
Perfluorononanoic acid (PFNA)	ND	ng/L	1	0.87	2.9		
Perfluorodecanoic acid (PFDA)	ND	ng/L	1	0.65	2.2		
Perfluoroundecanoic acid (PFUnA)	ND	ng/L	1	0.99	3.3		
Perfluorododecanoic acid (PFDoA)	ND	ng/L	1	0.88	2.9		
Perfluorotridecanoic acid (PFTrIA)	ND	ng/L	1	0.69	2.3		
Perfluorotetradecanoic acid (PFTeA)	ND	ng/L	1	0.85	2.8		
Perfluorobutanesulfonic acid (PFBS)	ND	ng/L	1	0.51	1.7		
Perfluorohexanesulfonic acid (PFHxS)	ND	ng/L	1	0.82	2.7		
Perfluorooctanesulfonic acid (PFOS)	ND	ng/L	1	0.70	2.3		
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND	ng/L	1	0.50	1.7		
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEFOSAA)	ND	ng/L	1	0.76	2.5		
Hexafluoropropylene oxide dimer acid (GenX)	ND	ng/L	1	0.83	2.8		
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND	ng/L	1	0.82	2.7		
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND	ng/L	1	0.75	2.5		
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	ng/L	1	0.88	2.9		
C13-PFHxA (SURR)	84.9%		1				S
C13-HFPODA (SURR)	90.2%		1				S
C13-PFDA (SURR)	76%		1				S
d5-NEFOSAA (SURR)	95.4%		1				S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA Method 537.1 Safe Drinking Water Analysis

Customer: Rhinelander Water Utility NLS Project: 370785

Project Description: PFAS Analysis

Project Title: Template: SCI2537.1 Printed: 08/19/2021 10:01

Sample: 1269751 Irrigation Well Collected: 08/05/21 Analyzed: 08/18/21 - Analytes: 18

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Perfluorohexanoic acid (PFHxA)	ND	ng/L	1	1.1	3.6		
Perfluoroheptanoic acid (PFHpA)	ND	ng/L	1	0.74	2.5		
Perfluorooctanoic acid (PFOA)	[1.67]	ng/L	1	0.66	2.2		J
Perfluorononanoic acid (PFNA)	ND	ng/L	1	0.87	2.9		
Perfluorodecanoic acid (PFDA)	ND	ng/L	1	0.65	2.2		
Perfluoroundecanoic acid (PFUnA)	ND	ng/L	1	0.99	3.3		
Perfluorododecanoic acid (PFDoA)	ND	ng/L	1	0.88	2.9		
Perfluorotridecanoic acid (PFTrIA)	ND	ng/L	1	0.69	2.3		
Perfluorotetradecanoic acid (PFTeA)	ND	ng/L	1	0.85	2.8		
Perfluorobutanesulfonic acid (PFBS)	ND	ng/L	1	0.51	1.7		
Perfluorohexanesulfonic acid (PFHxS)	ND	ng/L	1	0.82	2.7		
Perfluorooctanesulfonic acid (PFOS)	[0.78]	ng/L	1	0.70	2.3		J
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND	ng/L	1	0.50	1.7		
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND	ng/L	1	0.76	2.5		
Hexafluoropropylene oxide dimer acid (GenX)	ND	ng/L	1	0.83	2.8		
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND	ng/L	1	0.82	2.7		
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND	ng/L	1	0.75	2.5		
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	ng/L	1	0.88	2.9		
C13-PFHxA (SURR)	83.7%		1				S
C13-HFPODA (SURR)	82.8%		1				S
C13-PFDA (SURR)	70%		1				S
d5-NEtFOSAA (SURR)	85.6%		1				S

NOTES APPLICABLE TO THIS ANALYSIS:

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ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA Method 537.1 Safe Drinking Water Analysis

Customer: Rhinelander Water Utility NLS Project: 375965

Project Description: PFAS Analysis

Project Title: Template: SCI2537.1 Printed: 11/15/2021 15:01

Sample: 1287114 1553 S Onelda Collected: 11/02/21 Analyzed: 11/09/21 - Analytes: 18

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Perfluorohexanoic acid (PFHxA)	[1.25]	ng/L	1	1.1	3.6		J
Perfluoroheptanoic acid (PFHpA)	[1.27]	ng/L	1	0.74	2.5		J
Perfluorooctanoic acid (PFOA)	[1.98]	ng/L	1	0.66	2.2		J
Perfluorononanoic acid (PFNA)	ND	ng/L	1	0.87	2.9		
Perfluorodecanoic acid (PFDA)	ND	ng/L	1	0.65	2.2		
Perfluoroundecanoic acid (PFUnA)	ND	ng/L	1	0.99	3.3		
Perfluorododecanoic acid (PFDoA)	ND	ng/L	1	0.88	2.9		
Perfluorotridecanoic acid (PFTriA)	ND	ng/L	1	0.69	2.3		
Perfluorotetradecanoic acid (PFTeA)	ND	ng/L	1	0.85	2.8		
Perfluorobutanesulfonic acid (PFBS)	ND	ng/L	1	0.51	1.7		
Perfluorohexanesulfonic acid (PFHxS)	ND	ng/L	1	0.82	2.7		
Perfluorooctanesulfonic acid (PFOS)	[0.85]	ng/L	1	0.70	2.3		J
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND	ng/L	1	0.50	1.7		
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND	ng/L	1	0.76	2.5		
Hexafluoropropylene oxide dimer acid (GenX)	ND	ng/L	1	0.83	2.8		
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND	ng/L	1	0.82	2.7		
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND	ng/L	1	0.75	2.5		
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	ng/L	1	0.88	2.9		
C13-PFHxA (SURR)	61.6%		1				SR S
C13-HFPODA (SURR)	59.8%		1				SR S
C13-PFDA (SURR)	80.5%		1				S
d5-NEtFOSAA (SURR)	89.9%		1				S

NOTES APPLICABLE TO THIS ANALYSIS:

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.

S = This compound is a surrogate used to evaluate the quality control of a method.

SR = Surrogate recovery was outside QC limits.

C13-HFPODA recovered below QC limits.

C13-PFHxA recovered below QC limits.

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA Method 537.1 Safe Drinking Water Analysis

Customer: Rhinelander Water Utility NLS Project: 375965

Project Description: PFAS Analysis

Project Title: Template: SCI2537.1 Printed: 11/15/2021 15:01

Sample: 1287115 1549 S Oneida Collected: 11/02/21 Analyzed: 11/09/21 - Analytes: 18

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Perfluorohexanoic acid (PFHxA)	[3.45]	ng/L	1	1.1	3.6		J
Perfluoroheptanoic acid (PFHpA)	2.98	ng/L	1	0.74	2.5		
Perfluorooctanoic acid (PFOA)	3.49	ng/L	1	0.66	2.2		
Perfluorononanoic acid (PFNA)	ND	ng/L	1	0.87	2.9		
Perfluorodecanoic acid (PFDA)	ND	ng/L	1	0.65	2.2		
Perfluoroundecanoic acid (PFUnA)	ND	ng/L	1	0.99	3.3		
Perfluorododecanoic acid (PFDoA)	ND	ng/L	1	0.88	2.9		
Perfluorotridecanoic acid (PFTriA)	ND	ng/L	1	0.69	2.3		
Perfluorotetradecanoic acid (PFTeA)	ND	ng/L	1	0.85	2.8		
Perfluorobutanesulfonic acid (PFBS)	ND	ng/L	1	0.51	1.7		
Perfluorohexanesulfonic acid (PFHxS)	ND	ng/L	1	0.82	2.7		
Perfluorooctanesulfonic acid (PFOS)	[1.81]	ng/L	1	0.70	2.3		J
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND	ng/L	1	0.50	1.7		
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND	ng/L	1	0.76	2.5		
Hexafluoropropylene oxide dimer acid (GenX)	ND	ng/L	1	0.83	2.8		
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND	ng/L	1	0.82	2.7		
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND	ng/L	1	0.75	2.5		
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	ng/L	1	0.88	2.9		
C13-PFHxA (SURR)	57.4%		1				SR S
C13-HFPoDA (SURR)	60.3%		1				SR S
C13-PFDA (SURR)	79.9%		1				S
d5-NEtFOSAA (SURR)	90%		1				S

NOTES APPLICABLE TO THIS ANALYSIS:

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.

S = This compound is a surrogate used to evaluate the quality control of a method.

SR = Surrogate recovery was outside QC limits.

C13-HFPoDA recovered below QC limits.

C13-PFHxA recovered below QC limits.

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA Method 537.1 Safe Drinking Water Analysis

Customer: Rhinelander Water Utility NLS Project: 375965

Project Description: PFAS Analysis

Project Title: Template: SCI2537.1 Printed: 11/15/2021 15:01

Sample: 1287116 1409 Phillip Collected: 11/02/21 Analyzed: 11/09/21 Analytes: 18

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Perfluorohexanoic acid (PFHxA)	[2.18]	ng/L	1	1.1	3.6		J
Perfluoroheptanoic acid (PFHpA)	[2.14]	ng/L	1	0.74	2.5		J
Perfluorooctanoic acid (PFOA)	3.68	ng/L	1	0.66	2.2		
Perfluorononanoic acid (PFNA)	ND	ng/L	1	0.87	2.9		
Perfluorodecanoic acid (PFDA)	ND	ng/L	1	0.65	2.2		
Perfluoroundecanoic acid (PFUnA)	ND	ng/L	1	0.99	3.3		
Perfluorododecanoic acid (PFDoA)	ND	ng/L	1	0.88	2.9		
Perfluorotridecanoic acid (PFTrIA)	ND	ng/L	1	0.69	2.3		
Perfluorotetradecanoic acid (PFTeA)	ND	ng/L	1	0.85	2.8		
Perfluorobutanesulfonic acid (PFBS)	[1.13]	ng/L	1	0.51	1.7		J
Perfluorohexanesulfonic acid (PFHxS)	[1.26]	ng/L	1	0.82	2.7		J
Perfluorooctanesulfonic acid (PFOS)	[0.84]	ng/L	1	0.70	2.3		J
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND	ng/L	1	0.50	1.7		
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND	ng/L	1	0.76	2.5		
Hexafluoropropylene oxide dimer acid (GenX)	ND	ng/L	1	0.83	2.8		
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND	ng/L	1	0.82	2.7		
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND	ng/L	1	0.75	2.5		
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	ng/L	1	0.88	2.9		
C13-PFHxA (SURR)	61%		1				SR S
C13-HFPODA (SURR)	56%		1				SR S
C13-PFDA (SURR)	81.6%		1				S
d5-NEtFOSAA (SURR)	94.8%		1				S

NOTES APPLICABLE TO THIS ANALYSIS:

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.

S = This compound is a surrogate used to evaluate the quality control of a method.

SR = Surrogate recovery was outside QC limits.

C13-HFPODA recovered below QC limits.

C13-PFHxA recovered below QC limits.

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA Method 537.1 Safe Drinking Water Analysis

Customer: Rhinelander Water Utility NLS Project: 375965

Project Description: PFAS Analysis

Project Title: Template: SCI2537.1 Printed: 11/15/2021 15:01

Sample: 1287117 - 3401 Fox Ranch Rd - Collected: 11/02/21 - Analyzed: 11/09/21 - Analytes: 18

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Perfluorohexanoic acid (PFHxA)	[1.59]	ng/L	1	1.1	3.6		J
Perfluoroheptanoic acid (PFHpA)	[1.63]	ng/L	1	0.74	2.5		J
Perfluorooctanoic acid (PFOA)	3.46	ng/L	1	0.66	2.2		
Perfluorononanoic acid (PFNA)	ND	ng/L	1	0.87	2.9		
Perfluorodecanoic acid (PFDA)	ND	ng/L	1	0.65	2.2		
Perfluoroundecanoic acid (PFUnA)	ND	ng/L	1	0.99	3.3		
Perfluorododecanoic acid (PFDoA)	ND	ng/L	1	0.88	2.9		
Perfluorotridecanoic acid (PFTriA)	ND	ng/L	1	0.69	2.3		
Perfluorotetradecanoic acid (PFTeA)	ND	ng/L	1	0.85	2.8		
Perfluorobutanesulfonic acid (PFBS)	[1.44]	ng/L	1	0.51	1.7		J
Perfluorohexanesulfonic acid (PFHxS)	17.4	ng/L	1	0.82	2.7		
Perfluorooctanesulfonic acid (PFOS)	[0.91]	ng/L	1	0.70	2.3		J
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND	ng/L	1	0.50	1.7		
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND	ng/L	1	0.76	2.5		
Hexafluoropropylene oxide dimer acid (GenX)	ND	ng/L	1	0.83	2.8		
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND	ng/L	1	0.82	2.7		
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND	ng/L	1	0.75	2.5		
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	ng/L	1	0.88	2.9		
C13-PFHxA (SURR)	62.9%		1				SR S
C13-HFPODA (SURR)	64.4%		1				SR S
C13-PFDA (SURR)	85.4%		1				S
d5-NEtFOSAA (SURR)	98.4%		1				S

NOTES APPLICABLE TO THIS ANALYSIS:

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.

S = This compound is a surrogate used to evaluate the quality control of a method.

SR = Surrogate recovery was outside QC limits.

C13-HFPODA recovered below QC limits.

C13-PFHxA recovered below QC limits.

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA Method 537.1 Safe Drinking Water Analysis

Customer: Rhinelander Water Utility NLS Project: 375965

Project Description: PFAS Analysis

Project Title: Template: SCI2537.1 Printed: 11/15/2021 15:01

Sample: 1287118 3400 Fox Ranch Rd Collected: 11/02/21 Analyzed: 11/09/21 Analytes: 18

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Perfluorohexanoic acid (PFHxA)	ND	ng/L	1	1.1	3.6		
Perfluoroheptanoic acid (PFHpA)	ND	ng/L	1	0.74	2.5		
Perfluorooctanoic acid (PFOA)	ND	ng/L	1	0.66	2.2		
Perfluorononanoic acid (PFNA)	ND	ng/L	1	0.87	2.9		
Perfluorodecanoic acid (PFDA)	ND	ng/L	1	0.65	2.2		
Perfluoroundecanoic acid (PFUnA)	ND	ng/L	1	0.99	3.3		
Perfluorododecanoic acid (PFDoA)	ND	ng/L	1	0.88	2.9		
Perfluorotridecanoic acid (PFTriA)	ND	ng/L	1	0.69	2.3		
Perfluorotetradecanoic acid (PFTeA)	ND	ng/L	1	0.85	2.8		
Perfluorobutanesulfonic acid (PFBS)	ND	ng/L	1	0.51	1.7		
Perfluorohexanesulfonic acid (PFHxS)	ND	ng/L	1	0.82	2.7		
Perfluorooctanesulfonic acid (PFOS)	ND	ng/L	1	0.70	2.3		
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND	ng/L	1	0.50	1.7		
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND	ng/L	1	0.76	2.5		
Hexafluoropropylene oxide dimer acid (GenX)	ND	ng/L	1	0.83	2.8		
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND	ng/L	1	0.82	2.7		
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND	ng/L	1	0.75	2.5		
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	ng/L	1	0.88	2.9		
C13-PFHxA (SURR)	70.4%		1				S
C13-HFPODA (SURR)	77.1%		1				S
C13-PFDA (SURR)	78.9%		1				S
d5-NEtFOSAA (SURR)	86.6%		1				S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA Method 537.1 Safe Drinking Water Analysis

Customer: Rhineland Water Utility NLS Project: 381169

Project Description: PFAS Analysis

Project Title: Template: SCI2537.1 Printed: 03/15/2022 15:19

Sample: 1301271 1553 S Oneida Collected: 03/01/22 Analyzed: 03/14/22 Analytes: 18

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Perfluorohexanoic acid (PFHxA)	ND	ng/L	1	1.1	3.6		
Perfluoroheptanoic acid (PFHpA)	[1.15]	ng/L	1	0.74	2.5		J
Perfluorooctanoic acid (PFOA)	[1.67]	ng/L	1	0.66	2.2		J
Perfluorononanoic acid (PFNA)	ND	ng/L	1	0.87	2.9		
Perfluorodecanoic acid (PFDA)	ND	ng/L	1	0.65	2.2		
Perfluoroundecanoic acid (PFUnA)	ND	ng/L	1	0.99	3.3		
Perfluorododecanoic acid (PFDoA)	ND	ng/L	1	0.88	2.9		
Perfluorotridecanoic acid (PFTriA)	ND	ng/L	1	0.69	2.3		
Perfluorotetradecanoic acid (PFTeA)	ND	ng/L	1	0.85	2.8		
Perfluorobutanesulfonic acid (PFBS)	ND	ng/L	1	0.51	1.7		
Perfluorohexanesulfonic acid (PFHxS)	ND	ng/L	1	0.82	2.7		
Perfluorooctanesulfonic acid (PFOS)	[0.80]	ng/L	1	0.70	2.3		J
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND	ng/L	1	1.0	3.4		
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND	ng/L	1	0.76	2.5		
Hexafluoropropylene oxide dimer acid (GenX)	ND	ng/L	1	0.83	2.8		
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND	ng/L	1	0.82	2.7		
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND	ng/L	1	0.75	2.5		
11-chloroicosafafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	ng/L	1	0.88	2.9		
C13-PFHxA (SURR)	89.7%		1				S
C13-HFPODA (SURR)	82.6%		1				S
C13-PFDA (SURR)	92.6%		1				S
d5-NEtFOSAA (SURR)	102%		1				S

NOTES APPLICABLE TO THIS ANALYSIS:

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA Method 537.1 Safe Drinking Water Analysis

Customer: Rhinelander Water Utility NLS Project: 381169

Project Description: PFAS Analysis

Project Title: Template: SCI2537.1 Printed: 03/15/2022 15:19

Sample: 1301272 1549 S Oneida Collected: 03/01/22 Analyzed: 03/14/22 - Analytes: 18

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Perfluorohexanoic acid (PFHxA)	[2.04]	ng/L	1	1.1	3.6		J
Perfluoroheptanoic acid (PFHpA)	[2.06]	ng/L	1	0.74	2.5		J
Perfluorooctanoic acid (PFOA)	2.46	ng/L	1	0.66	2.2		
Perfluorononanoic acid (PFNA)	ND	ng/L	1	0.87	2.9		
Perfluorodecanoic acid (PFDA)	ND	ng/L	1	0.65	2.2		
Perfluoroundecanoic acid (PFUnA)	ND	ng/L	1	0.99	3.3		
Perfluorododecanoic acid (PFDoA)	ND	ng/L	1	0.88	2.9		
Perfluorotridecanoic acid (PFTriA)	ND	ng/L	1	0.69	2.3		
Perfluorotetradecanoic acid (PFTeA)	ND	ng/L	1	0.85	2.8		
Perfluorobutanesulfonic acid (PFBS)	ND	ng/L	1	0.51	1.7		
Perfluorohexanesulfonic acid (PFHxS)	ND	ng/L	1	0.82	2.7		
Perfluorooctanesulfonic acid (PFOS)	[1.19]	ng/L	1	0.70	2.3		J
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND	ng/L	1	1.0	3.4		
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND	ng/L	1	0.76	2.5		
Hexafluoropropylene oxide dimer acid (GenX)	ND	ng/L	1	0.83	2.8		
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND	ng/L	1	0.82	2.7		
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND	ng/L	1	0.75	2.5		
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	ng/L	1	0.88	2.9		
C13-PFHxA (SURR)	89.3%		1				S
C13-HFPODA (SURR)	77.8%		1				S
C13-PFDA (SURR)	90.7%		1				S
d5-NEtFOSAA (SURR)	103%		1				S

NOTES APPLICABLE TO THIS ANALYSIS:

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.

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Customer: Rhinelander Water Utility NLS Project: 381169

Project Description: PFAS Analysis

Project Title: Template: SCI2537.1 Printed: 03/15/2022 15:19

Sample: 1301273 1409 Phillip Collected: 03/01/22 Analyzed: 03/14/22 - Analytes: 18

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Perfluorohexanoic acid (PFHxA)	[2.59]	ng/L	1	1.1	3.6		J
Perfluoroheptanoic acid (PFHpA)	2.7	ng/L	1	0.74	2.5		
Perfluorooctanoic acid (PFOA)	4.63	ng/L	1	0.66	2.2		
Perfluorononanoic acid (PFNA)	ND	ng/L	1	0.87	2.9		
Perfluorodecanoic acid (PFDA)	ND	ng/L	1	0.65	2.2		
Perfluoroundecanoic acid (PFUnA)	ND	ng/L	1	0.99	3.3		
Perfluorododecanoic acid (PFDoA)	ND	ng/L	1	0.88	2.9		
Perfluorotridecanoic acid (PFTriA)	ND	ng/L	1	0.69	2.3		
Perfluorotetradecanoic acid (PFTeA)	ND	ng/L	1	0.85	2.8		
Perfluorobutanesulfonic acid (PFBS)	[1.08]	ng/L	1	0.51	1.7		J
Perfluorohexanesulfonic acid (PFHxS)	[1.31]	ng/L	1	0.82	2.7		J
Perfluorooctanesulfonic acid (PFOS)	[0.72]	ng/L	1	0.70	2.3		J
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND	ng/L	1	1.0	3.4		
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND	ng/L	1	0.76	2.5		
Hexafluoropropylene oxide dimer acid (GenX)	ND	ng/L	1	0.83	2.8		
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND	ng/L	1	0.82	2.7		
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND	ng/L	1	0.75	2.5		
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	ng/L	1	0.88	2.9		
C13-PFHxA (SURR)	92.3%		1				S
C13-HFPODA (SURR)	70.9%		1				S
C13-PFDA (SURR)	92.6%		1				S
d5-NEtFOSAA (SURR)	110%		1				S

NOTES APPLICABLE TO THIS ANALYSIS:

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S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA Method 537.1 Safe Drinking Water Analysis

Customer: Rhinelander Water Utility NLS Project: 381169

Project Description: PFAS Analysis

Project Title: Template: SCI2537.1 Printed: 03/15/2022 15:19

Sample: 1301274 3401 Fox Ranch Rd Collected: 03/01/22 Analyzed: 03/14/22 - Analytes: 18

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Perfluorohexanoic acid (PFHxA)	[2.8]	ng/L	1	1.1	3.6		J
Perfluoroheptanoic acid (PFHpA)	2.64	ng/L	1	0.74	2.5		
Perfluorooctanoic acid (PFOA)	5.28	ng/L	1	0.66	2.2		
Perfluorononanoic acid (PFNA)	ND	ng/L	1	0.87	2.9		
Perfluorodecanoic acid (PFDA)	ND	ng/L	1	0.65	2.2		
Perfluoroundecanoic acid (PFUnA)	ND	ng/L	1	0.99	3.3		
Perfluorododecanoic acid (PFDoA)	ND	ng/L	1	0.88	2.9		
Perfluorotridecanoic acid (PFTriA)	ND	ng/L	1	0.69	2.3		
Perfluorotetradecanoic acid (PFTeA)	ND	ng/L	1	0.85	2.8		
Perfluorobutanesulfonic acid (PFBS)	[1.64]	ng/L	1	0.51	1.7		J
Perfluorohexanesulfonic acid (PFHxS)	16.4	ng/L	1	0.82	2.7		
Perfluorooctanesulfonic acid (PFOS)	[1.35]	ng/L	1	0.70	2.3		J
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND	ng/L	1	1.0	3.4		
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND	ng/L	1	0.76	2.5		
Hexafluoropropylene oxide dimer acid (GenX)	ND	ng/L	1	0.83	2.8		
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND	ng/L	1	0.82	2.7		
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND	ng/L	1	0.75	2.5		
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	ng/L	1	0.88	2.9		
C13-PFHxA (SURR)	94.9%		1				S
C13-HFPODA (SURR)	82.8%		1				S
C13-PFDA (SURR)	93.6%		1				S
d5-NEtFOSAA (SURR)	110%		1				S

NOTES APPLICABLE TO THIS ANALYSIS:

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.

S = This compound is a surrogate used to evaluate the quality control of a method.

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA Method 537.1 Safe Drinking Water Analysis

Customer: Rhinelander Water Utility NLS Project: 381169

Project Description: PFAS Analysis

Project Title: Template: SCI2537.1 Printed: 03/15/2022 15:19

Sample: 1301275 3400 Fox Ranch Rd Collected: 03/01/22 Analyzed: 03/14/22 - Analytes: 18

ANALYTE NAME	RESULT	UNITS	DIL	LOD	LOQ	MCL	Note
Perfluorohexanoic acid (PFHxA)	ND	ng/L	1	1.1	3.6		
Perfluoroheptanoic acid (PFHpA)	ND	ng/L	1	0.74	2.5		
Perfluorooctanoic acid (PFOA)	ND	ng/L	1	0.66	2.2		
Perfluorononanoic acid (PFNA)	ND	ng/L	1	0.87	2.9		
Perfluorodecanoic acid (PFDA)	ND	ng/L	1	0.65	2.2		
Perfluoroundecanoic acid (PFUnA)	ND	ng/L	1	0.99	3.3		
Perfluorododecanoic acid (PFDoA)	ND	ng/L	1	0.88	2.9		
Perfluorotridecanoic acid (PFTriA)	ND	ng/L	1	0.69	2.3		
Perfluorotetradecanoic acid (PFTeA)	ND	ng/L	1	0.85	2.8		
Perfluorobutanesulfonic acid (PFBS)	ND	ng/L	1	0.51	1.7		
Perfluorohexanesulfonic acid (PFHxS)	ND	ng/L	1	0.82	2.7		
Perfluorooctanesulfonic acid (PFOS)	ND	ng/L	1	0.70	2.3		
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND	ng/L	1	1.0	3.4		
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEFOSAA)	ND	ng/L	1	0.76	2.5		
Hexafluoropropylene oxide dimer acid (GenX)	ND	ng/L	1	0.83	2.8		
4,8-Dioxa-3H-perfluorononanoic acid (DONA)	ND	ng/L	1	0.82	2.7		
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	ND	ng/L	1	0.75	2.5		
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND	ng/L	1	0.88	2.9		
C13-PFHxA (SURR)	103%		1				S
C13-HFPODA (SURR)	98.8%		1				S
C13-PFDA (SURR)	100%		1				S
d5-NEFOSAA (SURR)	114%		1				S

NOTES APPLICABLE TO THIS ANALYSIS:

S = This compound is a surrogate used to evaluate the quality control of a method.