Maxxam
A Bureau Veritas Group Company

Your Project #: PFC
Site Location: BFTA
Your C.O.C. #: 603526-03-01

Attention:Tom Cambareri

Cape Cod Comission
Cape Cod Commission
3225 Main Street
Barnstable, MA
USA 02630

Report Date: 2017/12/13
Report #: R4908645
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B7Q2240
Received: 2017/11/21, 14:23

Sample Matrix: Water
Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
PFOS and PFOA in water by SPE/LCMS (1)	6	2017/12/01	2017/12/04	CAM SOP-00894	EPA 537 m
PFOS and PFOA in water by SPE/LCMS (1)	3	2017/12/04	2017/12/12	CAM SOP-00894	EPA 537 m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Per- and polyfluoroalkyl substances (PFAS) identified as surrogates on the certificate of analysis represent the extracted internal standard.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

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Encryption Key

Stephanie Pollen
Project Manager
13 Dec 2017 15:59:16

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Stephanie Pollen, Project Manager
Email: SPollen@maxxam.ca
Phone# (905) 817-5700
==========
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Maxxam Job #: B7Q2240
Report Date: 2017/12/13

Cape Cod Comission
Client Project #: PFC
Site Location: BFTA

RESULTS OF ANALYSES OF WATER

Maxxam ID		FPF337			FPF338			FPF339			
Sampling Date		2017/11/17 14:05			2017/11/17 14:15			2017/11/17 14:45			
COC Number		603526-03-01			603526-03-01			603526-03-01			
	UNITS	HS-1A	RDL	MDL	HS-2A	RDL	MDL	PFW-2	RDL	MDL	QC Batch
Miscellaneous Parameters											
6:2 Fluorotelomer sulfonate	ug/L	4.1	1.0	0.33	2.5	0.20	0.066	4.0	0.20	0.066	5294262
8:2 Fluorotelomer sulfonate	ug/L	1.3	0.20	0.066	1.8	0.20	0.066	1.4	0.20	0.066	5294262
N-ethylperfluorooctane sulfonamide	ug/L	<0.20	0.20	0.10	<0.20	0.20	0.10	<0.20	0.20	0.10	5294262
N-ethylperfluorooctane sulfonamidoe	ug/L	<0.20	0.20	0.079	<0.20	0.20	0.079	<0.20	0.20	0.079	5294262
N-methylperfluorooctane sulfonamide	ug/L	<0.20	0.20	0.13	<0.20	0.20	0.13	<0.20	0.20	0.13	5294262
N-methylperfluorooctanesulfonamidol	ug/L	<0.20	0.20	0.12	<0.20	0.20	0.12	<0.20	0.20	0.12	5294262
Perfluorobutanoic acid	ug/L	0.62	0.20	0.055	<0.20	0.20	0.055	<0.20	0.20	0.055	5294262
Perfluorobutane Sulfonate (PFBS)	ug/L	0.31	0.20	0.054	<0.20	0.20	0.054	<0.20	0.20	0.054	5294262
Perfluorodecane Sulfonate	ug/L	<0.20	0.20	0.060	<0.20	0.20	0.060	<0.20	0.20	0.060	5294262
Perfluoroheptanoic Acid (PFHpA)	ug/L	0.76	0.20	0.074	<0.20	0.20	0.074	0.20	0.20	0.074	5294262
Perfluoroheptane sulfonate	ug/L	<0.20	0.20	0.080	<0.20	0.20	0.080	<0.20	0.20	0.080	5294262
Perfluorohexanoic Acid (PFHxA)	ug/L	3.5	0.20	0.035	0.88	0.20	0.035	1.0	0.20	0.035	5294262
Perfluorohexane Sulfonate (PFHxS)	ug/L	5.1	0.20	0.056	1.0	0.20	0.056	1.8	0.20	0.056	5294262
Perfluorononanoic Acid (PFNA)	ug/L	<0.20	0.20	0.087	<0.20	0.20	0.087	<0.20	0.20	0.087	5294262
Perfluorooctane Sulfonamide (PFOSA)	ug/L	<0.20	0.20	0.034	<0.20	0.20	0.034	<0.20	0.20	0.034	5294262
Perfluoropentanoic Acid (PFPeA)	ug/L	2.3	0.20	0.075	0.49	0.20	0.075	0.61	0.20	0.075	5294262
Perfluorotetradecanoic Acid	ug/L	<0.20	0.20	0.027	<0.20	0.20	0.027	<0.20	0.20	0.027	5294262
Perfluorotridecanoic Acid	ug/L	<0.20	0.20	0.038	<0.20	0.20	0.038	<0.20	0.20	0.038	5294262
Perfluoroundecanoic Acid (PFUnA)	ug/L	0.31	0.20	0.025	0.65	0.20	0.025	1.1	0.20	0.025	5294262
Perfluorodecanoic Acid (PFDA)	ug/L	<0.20	0.20	0.061	<0.20	0.20	0.061	<0.20	0.20	0.061	5294262
Perfluorododecanoic Acid (PFDoA)	ug/L	<0.20	0.20	0.050	<0.20	0.20	0.050	<0.20	0.20	0.050	5294262
Perfluoro-n-Octanoic Acid (PFOA)	ug/L	1.3	0.20	0.033	0.32	0.20	0.033	0.40	0.20	0.033	5294262
Perfluorooctane Sulfonate (PFOS)	ug/L	25	1.0	0.30	45	2.0	0.60	25	1.0	0.30	5294262
Surrogate Recovery (%)											
13C2-6:2 Fluorotelomer sulfonate	%	102	N/A	N/A	78	N/A	N/A	73	N/A	N/A	5294262
13C2-8:2 Fluorotelomer sulfonate	%	70	N/A	N/A	63	N/A	N/A	75	N/A	N/A	5294262
13C2-Perfluorodecanoic acid	%	89	N/A	N/A	81	N/A	N/A	71	N/A	N/A	5294262
13C2-Perfluorododecanoic acid	%	90	N/A	N/A	82	N/A	N/A	79	N/A	N/A	5294262
13C2-Perfluorohexanoic acid	%	87	N/A	N/A	82	N/A	N/A	78	N/A	N/A	5294262
13C2-perfluorotetradecanoic acid	%	87	N/A	N/A	76	N/A	N/A	71	N/A	N/A	5294262
13C2-Perfluoroundecanoic acid	%	78	N/A	N/A	79	N/A	N/A	74	N/A	N/A	5294262
13C4-Perfluorobutanoic acid	%	63	N/A	N/A	78	N/A	N/A	74	N/A	N/A	5294262

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Cape Cod Comission
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Site Location: BFTA

RESULTS OF ANALYSES OF WATER

Maxxam ID		FPF337			FPF338			FPF339			
Sampling Date		2017/11/17 14:05			2017/11/17 14:15			2017/11/17 14:45			
COC Number		603526-03-01			603526-03-01			603526-03-01			
	UNITS	**HS-1A**	**RDL**	**MDL**	**HS-2A**	**RDL**	**MDL**	**PFW-2**	**RDL**	**MDL**	**QC Batch**
13C4-Perfluoroheptanoic acid	%	80	N/A	N/A	93	N/A	N/A	77	N/A	N/A	5294262
13C4-Perfluorooctanesulfonate	%	77	N/A	N/A	66	N/A	N/A	64	N/A	N/A	5294262
13C4-Perfluorooctanoic acid	%	79	N/A	N/A	79	N/A	N/A	76	N/A	N/A	5294262
13C5-Perfluorononanoic acid	%	73	N/A	N/A	72	N/A	N/A	64	N/A	N/A	5294262
13C5-Perfluoropentanoic acid	%	80	N/A	N/A	81	N/A	N/A	72	N/A	N/A	5294262
13C8-Perfluorooctane Sulfonamide	%	86	N/A	N/A	77	N/A	N/A	76	N/A	N/A	5294262
18O2-Perfluorohexanesulfonate	%	81	N/A	N/A	81	N/A	N/A	67	N/A	N/A	5294262
N-ethyl-d5-perfluorooctane sulfonam	%	86	N/A	N/A	70	N/A	N/A	67	N/A	N/A	5294262
N-methyl-d3-perfluorooctane sulfona	%	70	N/A	N/A	70	N/A	N/A	70	N/A	N/A	5294262

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Site Location: BFTA

RESULTS OF ANALYSES OF WATER

Maxxam ID		FPF340			FPF341			FPF342			
Sampling Date		2017/11/17 15:10			2017/11/17 15:30			2017/11/17 15:30			
COC Number		603526-03-01			603526-03-01			603526-03-01			
	UNITS	**PFW-3**	**RDL**	**MDL**	**PFW-4**	**RDL**	**MDL**	**FLINT ROCK**	**RDL**	**MDL**	**QC Batch**
Miscellaneous Parameters											
6:2 Fluorotelomer sulfonate	ug/L	0.076	0.020	0.0066	14	1.0	0.33	<0.020	0.020	0.0066	5294262
8:2 Fluorotelomer sulfonate	ug/L	0.021	0.020	0.0066	<0.20	0.20	0.066	<0.020	0.020	0.0066	5294262
N-ethylperfluorooctane sulfonamide	ug/L	<0.020	0.020	0.010	<0.20	0.20	0.10	<0.020	0.020	0.010	5294262
N-ethylperfluorooctane sulfonamidoe	ug/L	<0.020	0.020	0.0079	<0.20	0.20	0.079	<0.020	0.020	0.0079	5294262
N-methylperfluorooctane sulfonamide	ug/L	<0.020	0.020	0.013	<0.20	0.20	0.13	<0.020	0.020	0.013	5294262
N-methylperfluorooctanesulfonamidol	ug/L	<0.020	0.020	0.012	<0.20	0.20	0.12	<0.020	0.020	0.012	5294262
Perfluorobutanoic acid	ug/L	0.16	0.020	0.0055	0.32	0.20	0.055	0.042	0.020	0.0055	5294262
Perfluorobutane Sulfonate (PFBS)	ug/L	0.033	0.020	0.0054	<0.20	0.20	0.054	<0.020	0.020	0.0054	5294262
Perfluorodecane Sulfonate	ug/L	<0.020	0.020	0.0060	<0.20	0.20	0.060	<0.020	0.020	0.0060	5294262
Perfluoroheptanoic Acid (PFHpA)	ug/L	0.17	0.020	0.0074	0.69	0.20	0.074	0.097	0.020	0.0074	5294262
Perfluoroheptane sulfonate	ug/L	0.022	0.020	0.0080	<0.20	0.20	0.080	<0.020	0.020	0.0080	5294262
Perfluorohexanoic Acid (PFHxA)	ug/L	0.58	0.020	0.0035	1.3	0.20	0.035	0.22	0.020	0.0035	5294262
Perfluorohexane Sulfonate (PFHxS)	ug/L	0.48	0.020	0.0056	2.4	0.20	0.056	0.21	0.020	0.0056	5294262
Perfluorononanoic Acid (PFNA)	ug/L	0.12	0.020	0.0087	<0.20	0.20	0.087	0.21	0.020	0.0087	5294262
Perfluorooctane Sulfonamide (PFOSA)	ug/L	<0.020	0.020	0.0034	<0.20	0.20	0.034	<0.020	0.020	0.0034	5294262
Perfluoropentanoic Acid (PFPeA)	ug/L	0.56	0.020	0.0075	1.5	0.20	0.075	0.12	0.020	0.0075	5294262
Perfluorotetradecanoic Acid	ug/L	<0.020	0.020	0.0027	<0.20	0.20	0.027	<0.020	0.020	0.0027	5294262
Perfluorotridecanoic Acid	ug/L	<0.020	0.020	0.0038	<0.20	0.20	0.038	<0.020	0.020	0.0038	5294262
Perfluoroundecanoic Acid (PFUnA)	ug/L	0.042	0.020	0.0025	<0.20	0.20	0.025	0.098	0.020	0.0025	5294262
Perfluorodecanoic Acid (PFDA)	ug/L	<0.020	0.020	0.0061	<0.20	0.20	0.061	0.075	0.020	0.0061	5294262
Perfluorododecanoic Acid (PFDoA)	ug/L	<0.020	0.020	0.0050	<0.20	0.20	0.050	<0.020	0.020	0.0050	5294262
Perfluoro-n-Octanoic Acid (PFOA)	ug/L	0.15	0.020	0.0033	1.3	0.20	0.033	0.095	0.020	0.0033	5294262
Perfluorooctane Sulfonate (PFOS)	ug/L	2.3 (1)	0.20	0.060	4.5	1.0	0.30	3.5 (1)	0.20	0.060	5294262
Surrogate Recovery (%)											
13C2-6:2 Fluorotelomer sulfonate	%	87	N/A	N/A	86	N/A	N/A	75	N/A	N/A	5294262
13C2-8:2 Fluorotelomer sulfonate	%	69	N/A	N/A	82	N/A	N/A	77	N/A	N/A	5294262
13C2-Perfluorodecanoic acid	%	85	N/A	N/A	69	N/A	N/A	85	N/A	N/A	5294262
13C2-Perfluorododecanoic acid	%	78	N/A	N/A	72	N/A	N/A	65	N/A	N/A	5294262
13C2-Perfluorohexanoic acid	%	76	N/A	N/A	81	N/A	N/A	82	N/A	N/A	5294262
13C2-perfluorotetradecanoic acid	%	50	N/A	N/A	72	N/A	N/A	40 (2)	N/A	N/A	5294262

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) Due to high concentration of the target analyte, sample required dilution. Detection limit was adjusted accordingly.

(2) Extracted internal standard analyte recovery was below the defined lower control limit (LCL). Because quantitation is performed using isotope dilution techniques, any losses of the native compound that may occur during any of the sample preparation, extraction, cleanup or determinative steps will be mirrored by a similar loss of the labeled standard, and as such can be accounted for and corrected. Therefore, the quantification of these target compounds is not affected by the low extracted internal standard analyte recovery.

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RESULTS OF ANALYSES OF WATER

Maxxam ID		FPF340			FPF341			FPF342			
Sampling Date		2017/11/17 15:10			2017/11/17 15:30			2017/11/17 15:30			
COC Number		603526-03-01			603526-03-01			603526-03-01			
	UNITS	**PFW-3**	**RDL**	**MDL**	**PFW-4**	**RDL**	**MDL**	**FLINT ROCK**	**RDL**	**MDL**	**QC Batch**
13C2-Perfluoroundecanoic acid	%	78	N/A	N/A	76	N/A	N/A	66	N/A	N/A	5294262
13C4-Perfluorobutanoic acid	%	83	N/A	N/A	87	N/A	N/A	75	N/A	N/A	5294262
13C4-Perfluoroheptanoic acid	%	89	N/A	N/A	91	N/A	N/A	77	N/A	N/A	5294262
13C4-Perfluorooctanesulfonate	%	66	N/A	N/A	64	N/A	N/A	69	N/A	N/A	5294262
13C4-Perfluorooctanoic acid	%	81	N/A	N/A	78	N/A	N/A	80	N/A	N/A	5294262
13C5-Perfluorononanoic acid	%	77	N/A	N/A	86	N/A	N/A	74	N/A	N/A	5294262
13C5-Perfluoropentanoic acid	%	87	N/A	N/A	90	N/A	N/A	84	N/A	N/A	5294262
13C8-Perfluorooctane Sulfonamide	%	78	N/A	N/A	64	N/A	N/A	73	N/A	N/A	5294262
18O2-Perfluorohexanesulfonate	%	79	N/A	N/A	67	N/A	N/A	80	N/A	N/A	5294262
N-ethyl-d5-perfluorooctane sulfonam	%	63	N/A	N/A	60	N/A	N/A	55	N/A	N/A	5294262
N-methyl-d3-perfluorooctane sulfona	%	63	N/A	N/A	55	N/A	N/A	59	N/A	N/A	5294262

RDL = Reportable Detection Limit
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Cape Cod Comission
Client Project #: PFC
Site Location: BFTA

RESULTS OF ANALYSES OF WATER

Maxxam ID		FPF343			FPF344	FPF345			
Sampling Date		2017/11/20 11:30			2017/11/20 11:30	2017/11/20 11:30			
COC Number		603526-03-01			603526-03-01	603526-03-01			
	UNITS	INFLUENT PRW 4	RDL	MDL	MID POINT	EFFLUENT	RDL	MDL	QC Batch
Miscellaneous Parameters									
6:2 Fluorotelomer sulfonate	ug/L	0.15	0.020	0.0066	0.034	<0.0066	0.020	0.0066	5297902
8:2 Fluorotelomer sulfonate	ug/L	0.081	0.020	0.0066	0.011	<0.0066	0.020	0.0066	5297902
N-ethylperfluorooctane sulfonamide	ug/L	<0.010	0.020	0.010	<0.010	<0.010	0.020	0.010	5297902
N-ethylperfluorooctane sulfonamidoe	ug/L	<0.0079	0.020	0.0079	<0.0079	<0.0079	0.020	0.0079	5297902
N-methylperfluorooctane sulfonamide	ug/L	<0.013	0.020	0.013	<0.013	<0.013	0.020	0.013	5297902
N-methylperfluorooctanesulfonamidol	ug/L	<0.012	0.020	0.012	<0.012	<0.012	0.020	0.012	5297902
Perfluorobutanoic acid	ug/L	0.031	0.020	0.0055	0.015	<0.0055	0.020	0.0055	5297902
Perfluorobutane Sulfonate (PFBS)	ug/L	0.023	0.020	0.0054	<0.0054	<0.0054	0.020	0.0054	5297902
Perfluorodecane Sulfonate	ug/L	<0.0060	0.020	0.0060	<0.0060	<0.0060	0.020	0.0060	5297902
Perfluoroheptanoic Acid (PFHpA)	ug/L	0.064	0.020	0.0074	0.013	<0.0074	0.020	0.0074	5297902
Perfluoroheptane sulfonate	ug/L	0.026	0.020	0.0080	<0.0080	<0.0080	0.020	0.0080	5297902
Perfluorohexanoic Acid (PFHxA)	ug/L	0.17	0.020	0.0035	0.051	<0.0035	0.020	0.0035	5297902
Perfluorohexane Sulfonate (PFHxS)	ug/L	0.37	0.020	0.0056	0.092	<0.0056	0.020	0.0056	5297902
Perfluorononanoic Acid (PFNA)	ug/L	0.047	0.020	0.0087	<0.0087	<0.0087	0.020	0.0087	5297902
Perfluorooctane Sulfonamide (PFOSA)	ug/L	<0.0034	0.020	0.0034	<0.0034	<0.0034	0.020	0.0034	5297902
Perfluoropentanoic Acid (PFPeA)	ug/L	0.13	0.020	0.0075	0.047	<0.0075	0.020	0.0075	5297902
Perfluorotetradecanoic Acid	ug/L	<0.0027	0.020	0.0027	<0.0027	<0.0027	0.020	0.0027	5297902
Perfluorotridecanoic Acid	ug/L	<0.0038	0.020	0.0038	<0.0038	<0.0038	0.020	0.0038	5297902
Perfluoroundecanoic Acid (PFUnA)	ug/L	0.053	0.020	0.0025	0.0070	<0.0025	0.020	0.0025	5297902
Perfluorodecanoic Acid (PFDA)	ug/L	<0.0061	0.020	0.0061	<0.0061	<0.0061	0.020	0.0061	5297902
Perfluorododecanoic Acid (PFDoA)	ug/L	<0.0050	0.020	0.0050	<0.0050	<0.0050	0.020	0.0050	5297902
Perfluoro-n-Octanoic Acid (PFOA)	ug/L	0.064	0.020	0.0033	0.015	<0.0033	0.020	0.0033	5297902
Perfluorooctane Sulfonate (PFOS)	ug/L	2.0 (1)	0.20	0.060	0.52	<0.0060	0.020	0.0060	5297902
Surrogate Recovery (%)									
13C2-6:2 Fluorotelomer sulfonate	%	82	N/A	N/A	96	102	N/A	N/A	5297902
13C2-8:2 Fluorotelomer sulfonate	%	83	N/A	N/A	85	102	N/A	N/A	5297902
13C2-Perfluorodecanoic acid	%	88	N/A	N/A	90	87	N/A	N/A	5297902
13C2-Perfluorododecanoic acid	%	85	N/A	N/A	77	83	N/A	N/A	5297902
13C2-Perfluorohexanoic acid	%	85	N/A	N/A	91	93	N/A	N/A	5297902
13C2-perfluorotetradecanoic acid	%	87	N/A	N/A	74	86	N/A	N/A	5297902
13C2-Perfluoroundecanoic acid	%	83	N/A	N/A	81	79	N/A	N/A	5297902

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was adjusted accordingly (10x).

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Maxxam Job #: B7Q2240
Report Date: 2017/12/13

Cape Cod Comission
Client Project #: PFC
Site Location: BFTA

RESULTS OF ANALYSES OF WATER

Maxxam ID		FPF343			FPF344	FPF345			
Sampling Date		2017/11/20 11:30			2017/11/20 11:30	2017/11/20 11:30			
COC Number		603526-03-01			603526-03-01	603526-03-01			
	UNITS	**INFLUENT PRW 4**	**RDL**	**MDL**	**MID POINT**	**EFFLUENT**	**RDL**	**MDL**	**QC Batch**
13C4-Perfluorobutanoic acid	%	87	N/A	N/A	92	90	N/A	N/A	5297902
13C4-Perfluoroheptanoic acid	%	88	N/A	N/A	89	91	N/A	N/A	5297902
13C4-Perfluorooctanesulfonate	%	88	N/A	N/A	90	99	N/A	N/A	5297902
13C4-Perfluorooctanoic acid	%	86	N/A	N/A	96	93	N/A	N/A	5297902
13C5-Perfluorononanoic acid	%	83	N/A	N/A	89	95	N/A	N/A	5297902
13C5-Perfluoropentanoic acid	%	78	N/A	N/A	90	91	N/A	N/A	5297902
13C8-Perfluorooctane Sulfonamide	%	80	N/A	N/A	80	85	N/A	N/A	5297902
18O2-Perfluorohexanesulfonate	%	89	N/A	N/A	89	98	N/A	N/A	5297902
N-ethyl-d5-perfluorooctane sulfonam	%	82	N/A	N/A	70	73	N/A	N/A	5297902
N-methyl-d3-perfluorooctane sulfona	%	79	N/A	N/A	64	70	N/A	N/A	5297902

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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TEST SUMMARY

Maxxam ID: FPF337 **Collected:** 2017/11/17
Sample ID: HS-1A **Shipped:**
Matrix: Water **Received:** 2017/11/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water by SPE/LCMS	LCMS	5294262	2017/12/01	2017/12/04	Colm McNamara

Maxxam ID: FPF338 **Collected:** 2017/11/17
Sample ID: HS-2A **Shipped:**
Matrix: Water **Received:** 2017/11/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water by SPE/LCMS	LCMS	5294262	2017/12/01	2017/12/04	Colm McNamara

Maxxam ID: FPF339 **Collected:** 2017/11/17
Sample ID: PFW-2 **Shipped:**
Matrix: Water **Received:** 2017/11/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water by SPE/LCMS	LCMS	5294262	2017/12/01	2017/12/04	Colm McNamara

Maxxam ID: FPF340 **Collected:** 2017/11/17
Sample ID: PFW-3 **Shipped:**
Matrix: Water **Received:** 2017/11/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water by SPE/LCMS	LCMS	5294262	2017/12/01	2017/12/04	Colm McNamara

Maxxam ID: FPF341 **Collected:** 2017/11/17
Sample ID: PFW-4 **Shipped:**
Matrix: Water **Received:** 2017/11/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water by SPE/LCMS	LCMS	5294262	2017/12/01	2017/12/04	Colm McNamara

Maxxam ID: FPF342 **Collected:** 2017/11/17
Sample ID: FLINT ROCK **Shipped:**
Matrix: Water **Received:** 2017/11/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water by SPE/LCMS	LCMS	5294262	2017/12/01	2017/12/04	Colm McNamara

Maxxam ID: FPF343 **Collected:** 2017/11/20
Sample ID: INFLUENT PRW 4 **Shipped:**
Matrix: Water **Received:** 2017/11/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water by SPE/LCMS	LCMS	5297902	2017/12/04	2017/12/12	Marian Godax

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Client Project #: PFC
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TEST SUMMARY

Maxxam ID: FPF344
Sample ID: MID POINT
Matrix: Water

Collected: 2017/11/20
Shipped:
Received: 2017/11/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water by SPE/LCMS	LCMS	5297902	2017/12/04	2017/12/12	Marian Godax

Maxxam ID: FPF345
Sample ID: EFFLUENT
Matrix: Water

Collected: 2017/11/20
Shipped:
Received: 2017/11/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water by SPE/LCMS	LCMS	5297902	2017/12/04	2017/12/12	Marian Godax

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GENERAL COMMENTS

Sample FPF337 [HS-1A] : Due to high concentrations of the target analytes, sample required dilution. Detection limits were adjusted accordingly.

Sample FPF338 [HS-2A] : Due to high concentrations of the target analytes, sample required dilution. Detection limits were adjusted accordingly.

Sample FPF339 [PFW-2] : Due to high concentrations of the target analytes, sample required dilution. Detection limits were adjusted accordingly.

Sample FPF341 [PFW-4] : Due to high concentrations of the target analytes, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.

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Cape Cod Comission
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Site Location: BFTA

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
5294262	CM5	Spiked Blank	13C2-6:2 Fluorotelomer sulfonate	2017/12/04		94	%	50 - 150
			13C2-8:2 Fluorotelomer sulfonate	2017/12/04		74	%	50 - 150
			13C2-Perfluorodecanoic acid	2017/12/04		77	%	50 - 150
			13C2-Perfluorododecanoic acid	2017/12/04		48 (1)	%	50 - 150
			13C2-Perfluorohexanoic acid	2017/12/04		82	%	50 - 150
			13C2-perfluorotetradecanoic acid	2017/12/04		39 (1)	%	50 - 150
			13C2-Perfluoroundecanoic acid	2017/12/04		63	%	50 - 150
			13C4-Perfluorobutanoic acid	2017/12/04		92	%	50 - 150
			13C4-Perfluoroheptanoic acid	2017/12/04		80	%	50 - 150
			13C4-Perfluorooctanesulfonate	2017/12/04		72	%	50 - 150
			13C4-Perfluorooctanoic acid	2017/12/04		82	%	50 - 150
			13C5-Perfluorononanoic acid	2017/12/04		77	%	50 - 150
			13C5-Perfluoropentanoic acid	2017/12/04		83	%	50 - 150
			13C8-Perfluorooctane Sulfonamide	2017/12/04		58	%	50 - 150
			18O2-Perfluorohexanesulfonate	2017/12/04		73	%	50 - 150
			N-ethyl-d5-perfluorooctane sulfonam	2017/12/04		47 (1)	%	50 - 150
			N-methyl-d3-perfluorooctane sulfona	2017/12/04		41 (1)	%	50 - 150
			6:2 Fluorotelomer sulfonate	2017/12/04		98	%	70 - 130
			8:2 Fluorotelomer sulfonate	2017/12/04		98	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2017/12/04		111	%	70 - 130
			N-ethylperfluorooctane sulfonamidoe	2017/12/04		92	%	70 - 130
			N-methylperfluorooctane sulfonamide	2017/12/04		101	%	70 - 130
			N-methylperfluorooctanesulfonamidol	2017/12/04		108	%	70 - 130
			Perfluorobutanoic acid	2017/12/04		104	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2017/12/04		126	%	70 - 130
			Perfluorodecane Sulfonate	2017/12/04		70	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2017/12/04		106	%	70 - 130
			Perfluoroheptane sulfonate	2017/12/04		106	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2017/12/04		112	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2017/12/04		113	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2017/12/04		111	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2017/12/04		108	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2017/12/04		102	%	70 - 130
			Perfluorotetradecanoic Acid	2017/12/04		135 (2)	%	70 - 130
			Perfluorotridecanoic Acid	2017/12/04		110	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2017/12/04		117	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2017/12/04		106	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2017/12/04		112	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2017/12/04		113	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2017/12/04		113	%	70 - 130
5294262	CM5	Spiked Blank DUP	13C2-6:2 Fluorotelomer sulfonate	2017/12/04		89	%	50 - 150
			13C2-8:2 Fluorotelomer sulfonate	2017/12/04		94	%	50 - 150
			13C2-Perfluorodecanoic acid	2017/12/04		81	%	50 - 150
			13C2-Perfluorododecanoic acid	2017/12/04		56	%	50 - 150
			13C2-Perfluorohexanoic acid	2017/12/04		88	%	50 - 150
			13C2-perfluorotetradecanoic acid	2017/12/04		54	%	50 - 150
			13C2-Perfluoroundecanoic acid	2017/12/04		70	%	50 - 150
			13C4-Perfluorobutanoic acid	2017/12/04		86	%	50 - 150
			13C4-Perfluoroheptanoic acid	2017/12/04		88	%	50 - 150
			13C4-Perfluorooctanesulfonate	2017/12/04		86	%	50 - 150
			13C4-Perfluorooctanoic acid	2017/12/04		85	%	50 - 150
			13C5-Perfluorononanoic acid	2017/12/04		80	%	50 - 150
			13C5-Perfluoropentanoic acid	2017/12/04		85	%	50 - 150

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			13C8-Perfluorooctane Sulfonamide	2017/12/04		62	%	50 - 150
			18O2-Perfluorohexanesulfonate	2017/12/04		80	%	50 - 150
			N-ethyl-d5-perfluorooctane sulfonam	2017/12/04		50	%	50 - 150
			N-methyl-d3-perfluorooctane sulfona	2017/12/04		45 (1)	%	50 - 150
			6:2 Fluorotelomer sulfonate	2017/12/04		102	%	70 - 130
			8:2 Fluorotelomer sulfonate	2017/12/04		78	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2017/12/04		115	%	70 - 130
			N-ethylperfluorooctane sulfonamidoe	2017/12/04		95	%	70 - 130
			N-methylperfluorooctane sulfonamide	2017/12/04		125	%	70 - 130
			N-methylperfluorooctanesulfonamidol	2017/12/04		109	%	70 - 130
			Perfluorobutanoic acid	2017/12/04		109	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2017/12/04		120	%	70 - 130
			Perfluorodecane Sulfonate	2017/12/04		74	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2017/12/04		104	%	70 - 130
			Perfluoroheptane sulfonate	2017/12/04		108	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2017/12/04		103	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2017/12/04		113	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2017/12/04		117	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2017/12/04		109	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2017/12/04		113	%	70 - 130
			Perfluorotetradecanoic Acid	2017/12/04		109	%	70 - 130
			Perfluorotridecanoic Acid	2017/12/04		98	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2017/12/04		110	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2017/12/04		111	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2017/12/04		108	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2017/12/04		109	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2017/12/04		93	%	70 - 130
5294262	CM5	RPD	6:2 Fluorotelomer sulfonate	2017/12/04	3.2		%	30
			8:2 Fluorotelomer sulfonate	2017/12/04	22		%	30
			N-ethylperfluorooctane sulfonamide	2017/12/04	3.9		%	30
			N-ethylperfluorooctane sulfonamidoe	2017/12/04	2.8		%	30
			N-methylperfluorooctane sulfonamide	2017/12/04	21		%	30
			N-methylperfluorooctanesulfonamidol	2017/12/04	0.93		%	30
			Perfluorobutanoic acid	2017/12/04	4.5		%	30
			Perfluorobutane Sulfonate (PFBS)	2017/12/04	4.5		%	30
			Perfluorodecane Sulfonate	2017/12/04	5.0		%	30
			Perfluoroheptanoic Acid (PFHpA)	2017/12/04	1.5		%	30
			Perfluoroheptane sulfonate	2017/12/04	1.9		%	30
			Perfluorohexanoic Acid (PFHxA)	2017/12/04	8.4		%	30
			Perfluorohexane Sulfonate (PFHxS)	2017/12/04	0.18		%	30
			Perfluorononanoic Acid (PFNA)	2017/12/04	5.5		%	30
			Perfluorooctane Sulfonamide (PFOSA)	2017/12/04	0.55		%	30
			Perfluoropentanoic Acid (PFPeA)	2017/12/04	9.9		%	30
			Perfluorotetradecanoic Acid	2017/12/04	21		%	30
			Perfluorotridecanoic Acid	2017/12/04	12		%	30
			Perfluoroundecanoic Acid (PFUnA)	2017/12/04	6.5		%	30
			Perfluorodecanoic Acid (PFDA)	2017/12/04	4.6		%	30
			Perfluorododecanoic Acid (PFDoA)	2017/12/04	4.2		%	30
			Perfluoro-n-Octanoic Acid (PFOA)	2017/12/04	4.0		%	30
			Perfluorooctane Sulfonate (PFOS)	2017/12/04	19		%	30
5294262	CM5	Method Blank	13C2-6:2 Fluorotelomer sulfonate	2017/12/04		64	%	50 - 150
			13C2-8:2 Fluorotelomer sulfonate	2017/12/04		69	%	50 - 150
			13C2-Perfluorodecanoic acid	2017/12/04		80	%	50 - 150

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			13C2-Perfluorododecanoic acid	2017/12/04		69	%	50 - 150
			13C2-Perfluorohexanoic acid	2017/12/04		83	%	50 - 150
			13C2-perfluorotetradecanoic acid	2017/12/04		57	%	50 - 150
			13C2-Perfluoroundecanoic acid	2017/12/04		61	%	50 - 150
			13C4-Perfluorobutanoic acid	2017/12/04		73	%	50 - 150
			13C4-Perfluoroheptanoic acid	2017/12/04		73	%	50 - 150
			13C4-Perfluorooctanesulfonate	2017/12/04		68	%	50 - 150
			13C4-Perfluorooctanoic acid	2017/12/04		72	%	50 - 150
			13C5-Perfluorononanoic acid	2017/12/04		75	%	50 - 150
			13C5-Perfluoropentanoic acid	2017/12/04		82	%	50 - 150
			13C8-Perfluorooctane Sulfonamide	2017/12/04		71	%	50 - 150
			18O2-Perfluorohexanesulfonate	2017/12/04		70	%	50 - 150
			N-ethyl-d5-perfluorooctane sulfonam	2017/12/04		59	%	50 - 150
			N-methyl-d3-perfluorooctane sulfona	2017/12/04		62	%	50 - 150
			6:2 Fluorotelomer sulfonate	2017/12/04	<0.020		ug/L	
			8:2 Fluorotelomer sulfonate	2017/12/04	<0.020		ug/L	
			N-ethylperfluorooctane sulfonamide	2017/12/04	<0.020		ug/L	
			N-ethylperfluorooctane sulfonamidoe	2017/12/04	<0.020		ug/L	
			N-methylperfluorooctane sulfonamide	2017/12/04	<0.020		ug/L	
			N-methylperfluorooctanesulfonamidol	2017/12/04	<0.020		ug/L	
			Perfluorobutanoic acid	2017/12/04	<0.020		ug/L	
			Perfluorobutane Sulfonate (PFBS)	2017/12/04	<0.020		ug/L	
			Perfluorodecane Sulfonate	2017/12/04	<0.020		ug/L	
			Perfluoroheptanoic Acid (PFHpA)	2017/12/04	<0.020		ug/L	
			Perfluoroheptane sulfonate	2017/12/04	<0.020		ug/L	
			Perfluorohexanoic Acid (PFHxA)	2017/12/04	<0.020		ug/L	
			Perfluorohexane Sulfonate (PFHxS)	2017/12/04	<0.020		ug/L	
			Perfluorononanoic Acid (PFNA)	2017/12/04	<0.020		ug/L	
			Perfluorooctane Sulfonamide (PFOSA)	2017/12/04	<0.020		ug/L	
			Perfluoropentanoic Acid (PFPeA)	2017/12/04	<0.020		ug/L	
			Perfluorotetradecanoic Acid	2017/12/04	<0.020		ug/L	
			Perfluorotridecanoic Acid	2017/12/04	<0.020		ug/L	
			Perfluoroundecanoic Acid (PFUnA)	2017/12/04	<0.020		ug/L	
			Perfluorodecanoic Acid (PFDA)	2017/12/04	<0.020		ug/L	
			Perfluorododecanoic Acid (PFDoA)	2017/12/04	<0.020		ug/L	
			Perfluoro-n-Octanoic Acid (PFOA)	2017/12/04	<0.020		ug/L	
			Perfluorooctane Sulfonate (PFOS)	2017/12/04	<0.020		ug/L	
5297902	M_G	Matrix Spike	13C2-6:2 Fluorotelomer sulfonate	2017/12/12		80	%	50 - 150
			13C2-8:2 Fluorotelomer sulfonate	2017/12/12		89	%	50 - 150
			13C2-Perfluorodecanoic acid	2017/12/12		84	%	50 - 150
			13C2-Perfluorododecanoic acid	2017/12/12		74	%	50 - 150
			13C2-Perfluorohexanoic acid	2017/12/12		92	%	50 - 150
			13C2-perfluorotetradecanoic acid	2017/12/12		71	%	50 - 150
			13C2-Perfluoroundecanoic acid	2017/12/12		74	%	50 - 150
			13C4-Perfluorobutanoic acid	2017/12/12		93	%	50 - 150
			13C4-Perfluoroheptanoic acid	2017/12/12		90	%	50 - 150
			13C4-Perfluorooctanesulfonate	2017/12/12		90	%	50 - 150
			13C4-Perfluorooctanoic acid	2017/12/12		99	%	50 - 150
			13C5-Perfluorononanoic acid	2017/12/12		95	%	50 - 150
			13C5-Perfluoropentanoic acid	2017/12/12		92	%	50 - 150
			13C8-Perfluorooctane Sulfonamide	2017/12/12		79	%	50 - 150
			18O2-Perfluorohexanesulfonate	2017/12/12		93	%	50 - 150
			N-ethyl-d5-perfluorooctane sulfonam	2017/12/12		73	%	50 - 150

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			N-methyl-d3-perfluorooctane sulfona	2017/12/12		75	%	50 - 150
			6:2 Fluorotelomer sulfonate	2017/12/12		94	%	70 - 130
			8:2 Fluorotelomer sulfonate	2017/12/12		80	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2017/12/12		100	%	70 - 130
			N-ethylperfluorooctane sulfonamidoe	2017/12/12		86	%	70 - 130
			N-methylperfluorooctane sulfonamide	2017/12/12		110	%	70 - 130
			N-methylperfluorooctanesulfonamidol	2017/12/12		81	%	70 - 130
			Perfluorobutanoic acid	2017/12/12		87	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2017/12/12		88	%	70 - 130
			Perfluorodecane Sulfonate	2017/12/12		81	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2017/12/12		94	%	70 - 130
			Perfluoroheptane sulfonate	2017/12/12		93	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2017/12/12		98	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2017/12/12		95	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2017/12/12		90	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2017/12/12		93	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2017/12/12		84	%	70 - 130
			Perfluorotetradecanoic Acid	2017/12/12		94	%	70 - 130
			Perfluorotridecanoic Acid	2017/12/12		94	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2017/12/12		100	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2017/12/12		91	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2017/12/12		91	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2017/12/12		81	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2017/12/12		89	%	70 - 130
5297902	M_G	Spiked Blank	13C2-6:2 Fluorotelomer sulfonate	2017/12/12		89	%	50 - 150
			13C2-8:2 Fluorotelomer sulfonate	2017/12/12		93	%	50 - 150
			13C2-Perfluorodecanoic acid	2017/12/12		88	%	50 - 150
			13C2-Perfluorododecanoic acid	2017/12/12		76	%	50 - 150
			13C2-Perfluorohexanoic acid	2017/12/12		87	%	50 - 150
			13C2-perfluorotetradecanoic acid	2017/12/12		78	%	50 - 150
			13C2-Perfluoroundecanoic acid	2017/12/12		86	%	50 - 150
			13C4-Perfluorobutanoic acid	2017/12/12		96	%	50 - 150
			13C4-Perfluoroheptanoic acid	2017/12/12		90	%	50 - 150
			13C4-Perfluorooctanesulfonate	2017/12/12		98	%	50 - 150
			13C4-Perfluorooctanoic acid	2017/12/12		95	%	50 - 150
			13C5-Perfluorononanoic acid	2017/12/12		91	%	50 - 150
			13C5-Perfluoropentanoic acid	2017/12/12		90	%	50 - 150
			13C8-Perfluorooctane Sulfonamide	2017/12/12		80	%	50 - 150
			18O2-Perfluorohexanesulfonate	2017/12/12		97	%	50 - 150
			N-ethyl-d5-perfluorooctane sulfonam	2017/12/12		73	%	50 - 150
			N-methyl-d3-perfluorooctane sulfona	2017/12/12		75	%	50 - 150
			6:2 Fluorotelomer sulfonate	2017/12/12		82	%	70 - 130
			8:2 Fluorotelomer sulfonate	2017/12/12		76	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2017/12/12		95	%	70 - 130
			N-ethylperfluorooctane sulfonamidoe	2017/12/12		88	%	70 - 130
			N-methylperfluorooctane sulfonamide	2017/12/12		92	%	70 - 130
			N-methylperfluorooctanesulfonamidol	2017/12/12		86	%	70 - 130
			Perfluorobutanoic acid	2017/12/12		80	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2017/12/12		81	%	70 - 130
			Perfluorodecane Sulfonate	2017/12/12		86	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2017/12/12		90	%	70 - 130
			Perfluoroheptane sulfonate	2017/12/12		85	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2017/12/12		93	%	70 - 130

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Perfluorohexane Sulfonate (PFHxS)	2017/12/12		81	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2017/12/12		85	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2017/12/12		84	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2017/12/12		82	%	70 - 130
			Perfluorotetradecanoic Acid	2017/12/12		83	%	70 - 130
			Perfluorotridecanoic Acid	2017/12/12		88	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2017/12/12		90	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2017/12/12		85	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2017/12/12		91	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2017/12/12		83	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2017/12/12		77	%	70 - 130
5297902	M_G	Method Blank	13C2-6:2 Fluorotelomer sulfonate	2017/12/12		87	%	50 - 150
			13C2-8:2 Fluorotelomer sulfonate	2017/12/12		83	%	50 - 150
			13C2-Perfluorodecanoic acid	2017/12/12		71	%	50 - 150
			13C2-Perfluorododecanoic acid	2017/12/12		65	%	50 - 150
			13C2-Perfluorohexanoic acid	2017/12/12		75	%	50 - 150
			13C2-perfluorotetradecanoic acid	2017/12/12		69	%	50 - 150
			13C2-Perfluoroundecanoic acid	2017/12/12		69	%	50 - 150
			13C4-Perfluorobutanoic acid	2017/12/12		79	%	50 - 150
			13C4-Perfluoroheptanoic acid	2017/12/12		82	%	50 - 150
			13C4-Perfluorooctanesulfonate	2017/12/12		74	%	50 - 150
			13C4-Perfluorooctanoic acid	2017/12/12		83	%	50 - 150
			13C5-Perfluorononanoic acid	2017/12/12		77	%	50 - 150
			13C5-Perfluoropentanoic acid	2017/12/12		79	%	50 - 150
			13C8-Perfluorooctane Sulfonamide	2017/12/12		65	%	50 - 150
			18O2-Perfluorohexanesulfonate	2017/12/12		72	%	50 - 150
			N-ethyl-d5-perfluorooctane sulfonam	2017/12/12		62	%	50 - 150
			N-methyl-d3-perfluorooctane sulfona	2017/12/12		55	%	50 - 150
			6:2 Fluorotelomer sulfonate	2017/12/12	<0.0066		ug/L	
			8:2 Fluorotelomer sulfonate	2017/12/12	<0.0066		ug/L	
			N-ethylperfluorooctane sulfonamide	2017/12/12	<0.010		ug/L	
			N-ethylperfluorooctane sulfonamidoe	2017/12/12	<0.0079		ug/L	
			N-methylperfluorooctane sulfonamide	2017/12/12	<0.013		ug/L	
			N-methylperfluorooctanesulfonamidol	2017/12/12	<0.012		ug/L	
			Perfluorobutanoic acid	2017/12/12	<0.0055		ug/L	
			Perfluorobutane Sulfonate (PFBS)	2017/12/12	<0.0054		ug/L	
			Perfluorodecane Sulfonate	2017/12/12	<0.0060		ug/L	
			Perfluoroheptanoic Acid (PFHpA)	2017/12/12	<0.0074		ug/L	
			Perfluoroheptane sulfonate	2017/12/12	<0.0080		ug/L	
			Perfluorohexanoic Acid (PFHxA)	2017/12/12	<0.0035		ug/L	
			Perfluorohexane Sulfonate (PFHxS)	2017/12/12	<0.0056		ug/L	
			Perfluorononanoic Acid (PFNA)	2017/12/12	<0.0087		ug/L	
			Perfluorooctane Sulfonamide (PFOSA)	2017/12/12	<0.0034		ug/L	
			Perfluoropentanoic Acid (PFPeA)	2017/12/12	<0.0075		ug/L	
			Perfluorotetradecanoic Acid	2017/12/12	<0.0027		ug/L	
			Perfluorotridecanoic Acid	2017/12/12	<0.0038		ug/L	
			Perfluoroundecanoic Acid (PFUnA)	2017/12/12	<0.0025		ug/L	
			Perfluorodecanoic Acid (PFDA)	2017/12/12	<0.0061		ug/L	
			Perfluorododecanoic Acid (PFDoA)	2017/12/12	<0.0050		ug/L	
			Perfluoro-n-Octanoic Acid (PFOA)	2017/12/12	<0.0033		ug/L	
			Perfluorooctane Sulfonate (PFOS)	2017/12/12	<0.0060		ug/L	
5297902	M_G	RPD - Sample/Sample Dup	6:2 Fluorotelomer sulfonate	2017/12/12	NC		%	30
			8:2 Fluorotelomer sulfonate	2017/12/12	NC		%	30

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			N-ethylperfluorooctane sulfonamide	2017/12/12	NC		%	30
			N-ethylperfluorooctane sulfonamidoe	2017/12/12	NC		%	30
			N-methylperfluorooctane sulfonamide	2017/12/12	NC		%	30
			N-methylperfluorooctanesulfonamidol	2017/12/12	NC		%	30
			Perfluorobutanoic acid	2017/12/12	NC		%	30
			Perfluorobutane Sulfonate (PFBS)	2017/12/12	NC		%	30
			Perfluorodecane Sulfonate	2017/12/12	NC		%	30
			Perfluoroheptanoic Acid (PFHpA)	2017/12/12	NC		%	30
			Perfluoroheptane sulfonate	2017/12/12	NC		%	30
			Perfluorohexanoic Acid (PFHxA)	2017/12/12	NC		%	30
			Perfluorohexane Sulfonate (PFHxS)	2017/12/12	NC		%	30
			Perfluorononanoic Acid (PFNA)	2017/12/12	NC		%	30
			Perfluorooctane Sulfonamide (PFOSA)	2017/12/12	NC		%	30
			Perfluoropentanoic Acid (PFPeA)	2017/12/12	NC		%	30
			Perfluorotetradecanoic Acid	2017/12/12	NC		%	30
			Perfluorotridecanoic Acid	2017/12/12	NC		%	30
			Perfluoroundecanoic Acid (PFUnA)	2017/12/12	NC		%	30
			Perfluorodecanoic Acid (PFDA)	2017/12/12	NC		%	30
			Perfluorododecanoic Acid (PFDoA)	2017/12/12	NC		%	30
			Perfluoro-n-Octanoic Acid (PFOA)	2017/12/12	15		%	30
			Perfluorooctane Sulfonate (PFOS)	2017/12/12	2.1		%	30

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Extracted internal standard analyte recovery was below the defined lower control limit (LCL). Because quantitation is performed using isotope dilution techniques, any losses of the native compound that may occur during any of the sample preparation, extraction, cleanup or determinative steps will be mirrored by a similar loss of the labeled standard, and as such can be accounted for and corrected. Therefore, the quantification of these target compounds is not affected by the low extracted internal standard analyte recovery.

(2) Recovery of the matrix spike was above the upper control limit. Laboratory spiked water resulted in satisfactory recovery of the compound of interest. When considered together, these QC data suggest that matrix interferences may be biasing the data high. For results that were not detected (ND), this potential bias has no impact.

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Adam Robinson, Supervisor, LC/MS/MS

Sin Chii Chia, Scientific Services

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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