Maxxam
A Bureau Veritas Group Company

Your Project #: PFC
Site Location: BFTA
Your C.O.C. #: 623638-02-01

Attention:Tom Cambareri

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

Report Date: 2017/11/22
Report #: R4870952
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B7P3600
Received: 2017/11/10, 14:30

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
PFOS and PFOA in water by SPE/LCMS (1)	2	2017/11/15	2017/11/17	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.

Encryption Key

Stephanie Pollen
Project Manager
22 Nov 2017 12:18:57

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

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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.

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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A Bureau Veritas Group Company

Maxxam Job #: B7P3600
Report Date: 2017/11/22

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

RESULTS OF ANALYSES OF WATER

Maxxam ID		FNL997			FNL998			
Sampling Date		2017/11/09 12:30			2017/11/09 12:30			
COC Number		623638-02-01			623638-02-01			
	UNITS	**INFLUENT PRW-4**	**RDL**	**MDL**	**EFFLUENT**	**RDL**	**MDL**	**QC Batch**
Miscellaneous Parameters								
6:2 Fluorotelomer sulfonate	ug/L	0.22	0.020	0.0066	<0.0066	0.020	0.0066	5265961
8:2 Fluorotelomer sulfonate	ug/L	0.096	0.020	0.0066	<0.0066	0.020	0.0066	5265961
N-ethylperfluorooctane sulfonamide	ug/L	<0.010	0.020	0.010	<0.010	0.020	0.010	5265961
N-ethylperfluorooctane sulfonamidoe	ug/L	<0.0079	0.020	0.0079	<0.0079	0.020	0.0079	5265961
N-methylperfluorooctane sulfonamide	ug/L	<0.013	0.020	0.013	<0.013	0.020	0.013	5265961
N-methylperfluorooctanesulfonamidol	ug/L	<0.012	0.020	0.012	<0.012	0.020	0.012	5265961
Perfluorobutanoic acid	ug/L	0.047	0.020	0.0055	<0.0055	0.020	0.0055	5265961
Perfluorobutane Sulfonate (PFBS)	ug/L	0.041	0.020	0.0054	<0.0054	0.020	0.0054	5265961
Perfluorodecane Sulfonate	ug/L	<0.0060	0.020	0.0060	<0.0060	0.020	0.0060	5265961
Perfluoroheptanoic Acid (PFHpA)	ug/L	0.087	0.020	0.0074	<0.0074	0.020	0.0074	5265961
Perfluoroheptane sulfonate	ug/L	0.040	0.020	0.0080	<0.0080	0.020	0.0080	5265961
Perfluorohexanoic Acid (PFHxA)	ug/L	0.19	0.020	0.0035	<0.0035	0.020	0.0035	5265961
Perfluorohexane Sulfonate (PFHxS)	ug/L	0.43	0.020	0.0056	<0.0056	0.020	0.0056	5265961
Perfluorononanoic Acid (PFNA)	ug/L	0.058	0.020	0.0087	<0.0087	0.020	0.0087	5265961
Perfluorooctane Sulfonamide (PFOSA)	ug/L	0.013	0.020	0.0034	<0.0034	0.020	0.0034	5265961
Perfluoropentanoic Acid (PFPeA)	ug/L	0.14	0.020	0.0075	<0.0075	0.020	0.0075	5265961
Perfluorotetradecanoic Acid	ug/L	<0.0027	0.020	0.0027	<0.0027	0.020	0.0027	5265961
Perfluorotridecanoic Acid	ug/L	<0.0038	0.020	0.0038	<0.0038	0.020	0.0038	5265961
Perfluoroundecanoic Acid (PFUnA)	ug/L	0.060	0.020	0.0025	<0.0025	0.020	0.0025	5265961
Perfluorodecanoic Acid (PFDA)	ug/L	0.011	0.020	0.0061	<0.0061	0.020	0.0061	5265961
Perfluorododecanoic Acid (PFDoA)	ug/L	<0.0050	0.020	0.0050	<0.0050	0.020	0.0050	5265961
Perfluoro-n-Octanoic Acid (PFOA)	ug/L	0.077	0.020	0.0033	<0.0033	0.020	0.0033	5265961
Perfluorooctane Sulfonate (PFOS)	ug/L	2.4 (1)	0.20	0.060	<0.0060	0.020	0.0060	5265961
Surrogate Recovery (%)								
13C2-6:2 Fluorotelomer sulfonate	%	76	N/A	N/A	142	N/A	N/A	5265961
13C2-8:2 Fluorotelomer sulfonate	%	85	N/A	N/A	121	N/A	N/A	5265961
13C2-Perfluorodecanoic acid	%	79	N/A	N/A	119	N/A	N/A	5265961
13C2-Perfluorododecanoic acid	%	81	N/A	N/A	109	N/A	N/A	5265961
13C2-Perfluorohexanoic acid	%	83	N/A	N/A	120	N/A	N/A	5265961
13C2-perfluorotetradecanoic acid	%	81	N/A	N/A	102	N/A	N/A	5265961
13C2-Perfluoroundecanoic acid	%	80	N/A	N/A	109	N/A	N/A	5265961
13C4-Perfluorobutanoic acid	%	85	N/A	N/A	111	N/A	N/A	5265961

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 #: B7P3600
Report Date: 2017/11/22

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

RESULTS OF ANALYSES OF WATER

Maxxam ID		FNL997			FNL998			
Sampling Date		2017/11/09 12:30			2017/11/09 12:30			
COC Number		623638-02-01			623638-02-01			
	UNITS	**INFLUENT PRW-4**	**RDL**	**MDL**	**EFFLUENT**	**RDL**	**MDL**	**QC Batch**
13C4-Perfluoroheptanoic acid	%	82	N/A	N/A	127	N/A	N/A	5265961
13C4-Perfluorooctanesulfonate	%	112	N/A	N/A	119	N/A	N/A	5265961
13C4-Perfluorooctanoic acid	%	79	N/A	N/A	122	N/A	N/A	5265961
13C5-Perfluorononanoic acid	%	81	N/A	N/A	131	N/A	N/A	5265961
13C5-Perfluoropentanoic acid	%	89	N/A	N/A	124	N/A	N/A	5265961
13C8-Perfluorooctane Sulfonamide	%	61	N/A	N/A	103	N/A	N/A	5265961
18O2-Perfluorohexanesulfonate	%	98	N/A	N/A	114	N/A	N/A	5265961
N-ethyl-d5-perfluorooctane sulfonam	%	62	N/A	N/A	93	N/A	N/A	5265961
N-methyl-d3-perfluorooctane sulfona	%	60	N/A	N/A	92	N/A	N/A	5265961

RDL = Reportable Detection Limit
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N/A = Not Applicable

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TEST SUMMARY

Maxxam ID: FNL997
Sample ID: INFLUENT PRW-4
Matrix: Water

Collected: 2017/11/09
Shipped:
Received: 2017/11/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water by SPE/LCMS	LCMS	5265961	2017/11/15	2017/11/17	Daniela Zupu

Maxxam ID: FNL998
Sample ID: EFFLUENT
Matrix: Water

Collected: 2017/11/09
Shipped:
Received: 2017/11/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water by SPE/LCMS	LCMS	5265961	2017/11/15	2017/11/17	Daniela Zupu

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GENERAL COMMENTS

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
5265961	DZU	Matrix Spike	13C2-6:2 Fluorotelomer sulfonate	2017/11/17		78	%	50 - 150
			13C2-8:2 Fluorotelomer sulfonate	2017/11/17		90	%	50 - 150
			13C2-Perfluorodecanoic acid	2017/11/17		88	%	50 - 150
			13C2-Perfluorododecanoic acid	2017/11/17		83	%	50 - 150
			13C2-Perfluorohexanoic acid	2017/11/17		99	%	50 - 150
			13C2-perfluorotetradecanoic acid	2017/11/17		68	%	50 - 150
			13C2-Perfluoroundecanoic acid	2017/11/17		84	%	50 - 150
			13C4-Perfluorobutanoic acid	2017/11/17		66	%	50 - 150
			13C4-Perfluoroheptanoic acid	2017/11/17		92	%	50 - 150
			13C4-Perfluorooctanesulfonate	2017/11/17		100	%	50 - 150
			13C4-Perfluorooctanoic acid	2017/11/17		84	%	50 - 150
			13C5-Perfluorononanoic acid	2017/11/17		89	%	50 - 150
			13C5-Perfluoropentanoic acid	2017/11/17		102	%	50 - 150
			13C8-Perfluorooctane Sulfonamide	2017/11/17		72	%	50 - 150
			18O2-Perfluorohexanesulfonate	2017/11/17		97	%	50 - 150
			N-ethyl-d5-perfluorooctane sulfonam	2017/11/17		56	%	50 - 150
			N-methyl-d3-perfluorooctane sulfona	2017/11/17		62	%	50 - 150
			6:2 Fluorotelomer sulfonate	2017/11/17		107	%	70 - 130
			8:2 Fluorotelomer sulfonate	2017/11/17		98	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2017/11/17		110	%	70 - 130
			N-ethylperfluorooctane sulfonamidoe	2017/11/17		105	%	70 - 130
			N-methylperfluorooctane sulfonamide	2017/11/17		116	%	70 - 130
			N-methylperfluorooctanesulfonamidol	2017/11/17		99	%	70 - 130
			Perfluorobutanoic acid	2017/11/17		116	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2017/11/17		119	%	70 - 130
			Perfluorodecane Sulfonate	2017/11/17		115	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2017/11/17		113	%	70 - 130
			Perfluoroheptane sulfonate	2017/11/17		119	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2017/11/17		104	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2017/11/17		122	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2017/11/17		109	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2017/11/17		106	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2017/11/17		106	%	70 - 130
			Perfluorotetradecanoic Acid	2017/11/17		104	%	70 - 130
			Perfluorotridecanoic Acid	2017/11/17		122	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2017/11/17		114	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2017/11/17		116	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2017/11/17		102	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2017/11/17		141 (1)	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2017/11/17		118	%	70 - 130
5265961	DZU	Matrix Spike DUP	13C2-6:2 Fluorotelomer sulfonate	2017/11/17		79	%	50 - 150
			13C2-8:2 Fluorotelomer sulfonate	2017/11/17		87	%	50 - 150
			13C2-Perfluorodecanoic acid	2017/11/17		95	%	50 - 150
			13C2-Perfluorododecanoic acid	2017/11/17		94	%	50 - 150
			13C2-Perfluorohexanoic acid	2017/11/17		102	%	50 - 150
			13C2-perfluorotetradecanoic acid	2017/11/17		83	%	50 - 150
			13C2-Perfluoroundecanoic acid	2017/11/17		100	%	50 - 150
			13C4-Perfluorobutanoic acid	2017/11/17		87	%	50 - 150
			13C4-Perfluoroheptanoic acid	2017/11/17		99	%	50 - 150
			13C4-Perfluorooctanesulfonate	2017/11/17		106	%	50 - 150
			13C4-Perfluorooctanoic acid	2017/11/17		100	%	50 - 150
			13C5-Perfluorononanoic acid	2017/11/17		100	%	50 - 150
			13C5-Perfluoropentanoic acid	2017/11/17		108	%	50 - 150

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

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			13C8-Perfluorooctane Sulfonamide	2017/11/17		81	%	50 - 150
			18O2-Perfluorohexanesulfonate	2017/11/17		105	%	50 - 150
			N-ethyl-d5-perfluorooctane sulfonam	2017/11/17		81	%	50 - 150
			N-methyl-d3-perfluorooctane sulfona	2017/11/17		74	%	50 - 150
			6:2 Fluorotelomer sulfonate	2017/11/17		110	%	70 - 130
			8:2 Fluorotelomer sulfonate	2017/11/17		108	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2017/11/17		115	%	70 - 130
			N-ethylperfluorooctane sulfonamidoe	2017/11/17		100	%	70 - 130
			N-methylperfluorooctane sulfonamide	2017/11/17		96	%	70 - 130
			N-methylperfluorooctanesulfonamidol	2017/11/17		103	%	70 - 130
			Perfluorobutanoic acid	2017/11/17		110	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2017/11/17		114	%	70 - 130
			Perfluorodecane Sulfonate	2017/11/17		117	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2017/11/17		111	%	70 - 130
			Perfluoroheptane sulfonate	2017/11/17		112	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2017/11/17		107	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2017/11/17		123	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2017/11/17		108	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2017/11/17		109	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2017/11/17		107	%	70 - 130
			Perfluorotetradecanoic Acid	2017/11/17		107	%	70 - 130
			Perfluorotridecanoic Acid	2017/11/17		116	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2017/11/17		115	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2017/11/17		115	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2017/11/17		106	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2017/11/17		103	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2017/11/17		113	%	70 - 130
5265961	DZU	MS/MSD RPD	6:2 Fluorotelomer sulfonate	2017/11/17	2.0		%	30
			8:2 Fluorotelomer sulfonate	2017/11/17	9.4		%	30
			N-ethylperfluorooctane sulfonamide	2017/11/17	4.4		%	30
			N-ethylperfluorooctane sulfonamidoe	2017/11/17	4.6		%	30
			N-methylperfluorooctane sulfonamide	2017/11/17	19		%	30
			N-methylperfluorooctanesulfonamidol	2017/11/17	3.7		%	30
			Perfluorobutanoic acid	2017/11/17	5.2		%	30
			Perfluorobutane Sulfonate (PFBS)	2017/11/17	4.6		%	30
			Perfluorodecane Sulfonate	2017/11/17	2.0		%	30
			Perfluoroheptanoic Acid (PFHpA)	2017/11/17	1.2		%	30
			Perfluoroheptane sulfonate	2017/11/17	5.9		%	30
			Perfluorohexanoic Acid (PFHxA)	2017/11/17	3.7		%	30
			Perfluorohexane Sulfonate (PFHxS)	2017/11/17	0.97		%	30
			Perfluorononanoic Acid (PFNA)	2017/11/17	0.28		%	30
			Perfluorooctane Sulfonamide (PFOSA)	2017/11/17	3.0		%	30
			Perfluoropentanoic Acid (PFPeA)	2017/11/17	0.51		%	30
			Perfluorotetradecanoic Acid	2017/11/17	3.2		%	30
			Perfluorotridecanoic Acid	2017/11/17	4.9		%	30
			Perfluoroundecanoic Acid (PFUnA)	2017/11/17	0.76		%	30
			Perfluorodecanoic Acid (PFDA)	2017/11/17	0.52		%	30
			Perfluorododecanoic Acid (PFDoA)	2017/11/17	4.3		%	30
			Perfluoro-n-Octanoic Acid (PFOA)	2017/11/17	31 (2)		%	30
			Perfluorooctane Sulfonate (PFOS)	2017/11/17	4.0		%	30
5265961	DZU	Spiked Blank	13C2-6:2 Fluorotelomer sulfonate	2017/11/17		92	%	50 - 150
			13C2-8:2 Fluorotelomer sulfonate	2017/11/17		103	%	50 - 150
			13C2-Perfluorodecanoic acid	2017/11/17		99	%	50 - 150

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Site Location: BFTA

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			13C2-Perfluorododecanoic acid	2017/11/17		99	%	50 - 150
			13C2-Perfluorohexanoic acid	2017/11/17		108	%	50 - 150
			13C2-perfluorotetradecanoic acid	2017/11/17		90	%	50 - 150
			13C2-Perfluoroundecanoic acid	2017/11/17		103	%	50 - 150
			13C4-Perfluorobutanoic acid	2017/11/17		112	%	50 - 150
			13C4-Perfluoroheptanoic acid	2017/11/17		107	%	50 - 150
			13C4-Perfluorooctanesulfonate	2017/11/17		113	%	50 - 150
			13C4-Perfluorooctanoic acid	2017/11/17		99	%	50 - 150
			13C5-Perfluorononanoic acid	2017/11/17		104	%	50 - 150
			13C5-Perfluoropentanoic acid	2017/11/17		114	%	50 - 150
			13C8-Perfluorooctane Sulfonamide	2017/11/17		80	%	50 - 150
			18O2-Perfluorohexanesulfonate	2017/11/17		115	%	50 - 150
			N-ethyl-d5-perfluorooctane sulfonam	2017/11/17		80	%	50 - 150
			N-methyl-d3-perfluorooctane sulfona	2017/11/17		73	%	50 - 150
			6:2 Fluorotelomer sulfonate	2017/11/17		107	%	70 - 130
			8:2 Fluorotelomer sulfonate	2017/11/17		95	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2017/11/17		115	%	70 - 130
			N-ethylperfluorooctane sulfonamidoe	2017/11/17		104	%	70 - 130
			N-methylperfluorooctane sulfonamide	2017/11/17		103	%	70 - 130
			N-methylperfluorooctanesulfonamidol	2017/11/17		107	%	70 - 130
			Perfluorobutanoic acid	2017/11/17		117	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2017/11/17		122	%	70 - 130
			Perfluorodecane Sulfonate	2017/11/17		115	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2017/11/17		112	%	70 - 130
			Perfluoroheptane sulfonate	2017/11/17		118	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2017/11/17		109	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2017/11/17		115	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2017/11/17		100	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2017/11/17		107	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2017/11/17		109	%	70 - 130
			Perfluorotetradecanoic Acid	2017/11/17		100	%	70 - 130
			Perfluorotridecanoic Acid	2017/11/17		110	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2017/11/17		108	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2017/11/17		110	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2017/11/17		100	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2017/11/17		111	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2017/11/17		111	%	70 - 130
5265961	DZU	Method Blank	13C2-6:2 Fluorotelomer sulfonate	2017/11/17		119	%	50 - 150
			13C2-8:2 Fluorotelomer sulfonate	2017/11/17		112	%	50 - 150
			13C2-Perfluorodecanoic acid	2017/11/17		110	%	50 - 150
			13C2-Perfluorododecanoic acid	2017/11/17		98	%	50 - 150
			13C2-Perfluorohexanoic acid	2017/11/17		119	%	50 - 150
			13C2-perfluorotetradecanoic acid	2017/11/17		97	%	50 - 150
			13C2-Perfluoroundecanoic acid	2017/11/17		110	%	50 - 150
			13C4-Perfluorobutanoic acid	2017/11/17		123	%	50 - 150
			13C4-Perfluoroheptanoic acid	2017/11/17		115	%	50 - 150
			13C4-Perfluorooctanesulfonate	2017/11/17		120	%	50 - 150
			13C4-Perfluorooctanoic acid	2017/11/17		114	%	50 - 150
			13C5-Perfluorononanoic acid	2017/11/17		115	%	50 - 150
			13C5-Perfluoropentanoic acid	2017/11/17		122	%	50 - 150
			13C8-Perfluorooctane Sulfonamide	2017/11/17		80	%	50 - 150
			18O2-Perfluorohexanesulfonate	2017/11/17		117	%	50 - 150
			N-ethyl-d5-perfluorooctane sulfonam	2017/11/17		75	%	50 - 150

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Maxxam Job #: B7P3600
Report Date: 2017/11/22

Cape Cod Comission
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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	2017/11/17		85	%	50 - 150
			6:2 Fluorotelomer sulfonate	2017/11/17	<0.0066		ug/L	
			8:2 Fluorotelomer sulfonate	2017/11/17	<0.0066		ug/L	
			N-ethylperfluorooctane sulfonamide	2017/11/17	<0.010		ug/L	
			N-ethylperfluorooctane sulfonamidoe	2017/11/17	<0.0079		ug/L	
			N-methylperfluorooctane sulfonamide	2017/11/17	<0.013		ug/L	
			N-methylperfluorooctanesulfonamidol	2017/11/17	<0.012		ug/L	
			Perfluorobutanoic acid	2017/11/17	<0.0055		ug/L	
			Perfluorobutane Sulfonate (PFBS)	2017/11/17	<0.0054		ug/L	
			Perfluorodecane Sulfonate	2017/11/17	<0.0060		ug/L	
			Perfluoroheptanoic Acid (PFHpA)	2017/11/17	<0.0074		ug/L	
			Perfluoroheptane sulfonate	2017/11/17	<0.0080		ug/L	
			Perfluorohexanoic Acid (PFHxA)	2017/11/17	<0.0035		ug/L	
			Perfluorohexane Sulfonate (PFHxS)	2017/11/17	<0.0056		ug/L	
			Perfluorononanoic Acid (PFNA)	2017/11/17	<0.0087		ug/L	
			Perfluorooctane Sulfonamide (PFOSA)	2017/11/17	<0.0034		ug/L	
			Perfluoropentanoic Acid (PFPeA)	2017/11/17	<0.0075		ug/L	
			Perfluorotetradecanoic Acid	2017/11/17	<0.0027		ug/L	
			Perfluorotridecanoic Acid	2017/11/17	<0.0038		ug/L	
			Perfluoroundecanoic Acid (PFUnA)	2017/11/17	<0.0025		ug/L	
			Perfluorodecanoic Acid (PFDA)	2017/11/17	<0.0061		ug/L	
			Perfluorododecanoic Acid (PFDoA)	2017/11/17	<0.0050		ug/L	
			Perfluoro-n-Octanoic Acid (PFOA)	2017/11/17	<0.0033		ug/L	
			Perfluorooctane Sulfonate (PFOS)	2017/11/17	<0.0060		ug/L	

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.

(1) 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 this specific analyte. For results that were not detected (ND), this potential bias has no impact.

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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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

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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