Maxxam
A Bureau Veritas Group Company

Your Project #: PFC
Site Location: BFTA
Your C.O.C. #: 623638-05-01

Attention:Tom Cambareri

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

Report Date: 2017/10/26
Report #: R4804388
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B7M6923
Received: 2017/10/13, 14:56

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
PFOS and PFOA in water by SPE/LCMS (1)	3	2017/10/19	2017/10/23	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

Stephanie Pollen
Project Manager
26 Oct 2017 13:57:40

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.

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A Bureau Veritas Group Company

Maxxam Job #: B7M6923
Report Date: 2017/10/26

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

RESULTS OF ANALYSES OF WATER

Maxxam ID		FHZ601			FHZ602			
Sampling Date		2017/10/12 09:30			2017/10/12 09:50			
COC Number		623638-05-01			623638-05-01			
	UNITS	EFFLUENT	RDL	MDL	INFLUENT PRW-4	RDL	MDL	QC Batch
Miscellaneous Parameters								
6:2 Fluorotelomer sulfonate	ug/L	<0.0032	0.020	0.0032	0.49	0.020	0.0032	5221172
8:2 Fluorotelomer sulfonate	ug/L	<0.0036	0.020	0.0036	0.21	0.020	0.0036	5221172
N-ethylperfluorooctane sulfonamide	ug/L	<0.0058	0.020	0.0058	<0.0058	0.020	0.0058	5221172
N-ethylperfluorooctane sulfonamidoe	ug/L	<0.0063	0.020	0.0063	<0.0063	0.020	0.0063	5221172
N-methylperfluorooctane sulfonamide	ug/L	<0.0041	0.020	0.0041	<0.0041	0.020	0.0041	5221172
N-methylperfluorooctanesulfonamidol	ug/L	<0.0043	0.020	0.0043	<0.0043	0.020	0.0043	5221172
Perfluorobutanoic acid	ug/L	<0.0043	0.020	0.0043	0.053	0.020	0.0043	5221172
Perfluorobutane Sulfonate (PFBS)	ug/L	<0.0048	0.020	0.0048	0.043	0.020	0.0048	5221172
Perfluorodecane Sulfonate	ug/L	<0.0046	0.020	0.0046	<0.0046	0.020	0.0046	5221172
Perfluoroheptanoic Acid (PFHpA)	ug/L	<0.0033	0.020	0.0033	0.093	0.020	0.0033	5221172
Perfluoroheptane sulfonate	ug/L	<0.0048	0.020	0.0048	0.076	0.020	0.0048	5221172
Perfluorohexanoic Acid (PFHxA)	ug/L	<0.0029	0.020	0.0029	0.23	0.020	0.0029	5221172
Perfluorohexane Sulfonate (PFHxS)	ug/L	<0.0034	0.020	0.0034	0.63	0.020	0.0034	5221172
Perfluorononanoic Acid (PFNA)	ug/L	<0.0038	0.020	0.0038	0.078	0.020	0.0038	5221172
Perfluorooctane Sulfonamide (PFOSA)	ug/L	<0.0036	0.020	0.0036	0.017	0.020	0.0036	5221172
Perfluoropentanoic Acid (PFPeA)	ug/L	<0.0027	0.020	0.0027	0.18	0.020	0.0027	5221172
Perfluorotetradecanoic Acid	ug/L	<0.0038	0.020	0.0038	<0.0038	0.020	0.0038	5221172
Perfluorotridecanoic Acid	ug/L	<0.0033	0.020	0.0033	<0.0033	0.020	0.0033	5221172
Perfluoroundecanoic Acid (PFUnA)	ug/L	<0.0043	0.020	0.0043	0.094	0.020	0.0043	5221172
Perfluorodecanoic Acid (PFDA)	ug/L	<0.0040	0.020	0.0040	0.015	0.020	0.0040	5221172
Perfluorododecanoic Acid (PFDoA)	ug/L	<0.0028	0.020	0.0028	<0.0028	0.020	0.0028	5221172
Perfluoro-n-Octanoic Acid (PFOA)	ug/L	<0.0046	0.020	0.0046	0.11	0.020	0.0046	5221172
Perfluorooctane Sulfonate (PFOS)	ug/L	<0.0026	0.020	0.0026	4.5 (1)	0.20	0.026	5221172
Surrogate Recovery (%)								
13C2-6:2 Fluorotelomer sulfonate	%	86	N/A	N/A	86	N/A	N/A	5221172
13C2-8:2 Fluorotelomer sulfonate	%	80	N/A	N/A	76	N/A	N/A	5221172
13C2-Perfluorodecanoic acid	%	77	N/A	N/A	81	N/A	N/A	5221172
13C2-Perfluorododecanoic acid	%	70	N/A	N/A	79	N/A	N/A	5221172
13C2-Perfluorohexanoic acid	%	88	N/A	N/A	94	N/A	N/A	5221172
13C2-perfluorotetradecanoic acid	%	67	N/A	N/A	69	N/A	N/A	5221172
13C2-Perfluoroundecanoic acid	%	76	N/A	N/A	80	N/A	N/A	5221172
13C4-Perfluorobutanoic acid	%	81	N/A	N/A	90	N/A	N/A	5221172

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.

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Maxxam Job #: B7M6923
Report Date: 2017/10/26

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

RESULTS OF ANALYSES OF WATER

Maxxam ID		FHZ601			FHZ602			
Sampling Date		2017/10/12 09:30			2017/10/12 09:50			
COC Number		623638-05-01			623638-05-01			
	UNITS	**EFFLUENT**	**RDL**	**MDL**	**INFLUENT PRW-4**	**RDL**	**MDL**	**QC Batch**
13C4-Perfluoroheptanoic acid	%	84	N/A	N/A	93	N/A	N/A	5221172
13C4-Perfluorooctanesulfonate	%	92	N/A	N/A	80	N/A	N/A	5221172
13C4-Perfluorooctanoic acid	%	87	N/A	N/A	95	N/A	N/A	5221172
13C5-Perfluorononanoic acid	%	83	N/A	N/A	98	N/A	N/A	5221172
13C5-Perfluoropentanoic acid	%	86	N/A	N/A	90	N/A	N/A	5221172
13C8-Perfluorooctane Sulfonamide	%	81	N/A	N/A	83	N/A	N/A	5221172
18O2-Perfluorohexanesulfonate	%	89	N/A	N/A	93	N/A	N/A	5221172
N-ethyl-d5-perfluorooctane sulfonam	%	70	N/A	N/A	78	N/A	N/A	5221172
N-methyl-d3-perfluorooctane sulfona	%	71	N/A	N/A	73	N/A	N/A	5221172

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RESULTS OF ANALYSES OF WATER

Maxxam ID		FHZ603			
Sampling Date		2017/10/12 09:40			
COC Number		623638-05-01			
	UNITS	**MID POINT**	**RDL**	**MDL**	**QC Batch**
Miscellaneous Parameters					
6:2 Fluorotelomer sulfonate	ug/L	0.13	0.020	0.0032	5221172
8:2 Fluorotelomer sulfonate	ug/L	0.046	0.020	0.0036	5221172
N-ethylperfluorooctane sulfonamide	ug/L	<0.0058	0.020	0.0058	5221172
N-ethylperfluorooctane sulfonamidoe	ug/L	<0.0063	0.020	0.0063	5221172
N-methylperfluorooctane sulfonamide	ug/L	<0.0041	0.020	0.0041	5221172
N-methylperfluorooctanesulfonamidol	ug/L	<0.0043	0.020	0.0043	5221172
Perfluorobutanoic acid	ug/L	0.028	0.020	0.0043	5221172
Perfluorobutane Sulfonate (PFBS)	ug/L	0.012	0.020	0.0048	5221172
Perfluorodecane Sulfonate	ug/L	<0.0046	0.020	0.0046	5221172
Perfluoroheptanoic Acid (PFHpA)	ug/L	0.028	0.020	0.0033	5221172
Perfluoroheptane sulfonate	ug/L	0.021	0.020	0.0048	5221172
Perfluorohexanoic Acid (PFHxA)	ug/L	0.070	0.020	0.0029	5221172
Perfluorohexane Sulfonate (PFHxS)	ug/L	0.17	0.020	0.0034	5221172
Perfluorononanoic Acid (PFNA)	ug/L	0.025	0.020	0.0038	5221172
Perfluorooctane Sulfonamide (PFOSA)	ug/L	<0.0036	0.020	0.0036	5221172
Perfluoropentanoic Acid (PFPeA)	ug/L	0.056	0.020	0.0027	5221172
Perfluorotetradecanoic Acid	ug/L	<0.0038	0.020	0.0038	5221172
Perfluorotridecanoic Acid	ug/L	<0.0033	0.020	0.0033	5221172
Perfluoroundecanoic Acid (PFUnA)	ug/L	0.019	0.020	0.0043	5221172
Perfluorodecanoic Acid (PFDA)	ug/L	<0.0040	0.020	0.0040	5221172
Perfluorododecanoic Acid (PFDoA)	ug/L	<0.0028	0.020	0.0028	5221172
Perfluoro-n-Octanoic Acid (PFOA)	ug/L	0.029	0.020	0.0046	5221172
Perfluorooctane Sulfonate (PFOS)	ug/L	0.96	0.020	0.0026	5221172
Surrogate Recovery (%)					
13C2-6:2 Fluorotelomer sulfonate	%	88	N/A	N/A	5221172
13C2-8:2 Fluorotelomer sulfonate	%	80	N/A	N/A	5221172
13C2-Perfluorodecanoic acid	%	83	N/A	N/A	5221172
13C2-Perfluorododecanoic acid	%	76	N/A	N/A	5221172
13C2-Perfluorohexanoic acid	%	92	N/A	N/A	5221172
13C2-perfluorotetradecanoic acid	%	71	N/A	N/A	5221172
13C2-Perfluoroundecanoic acid	%	77	N/A	N/A	5221172
13C4-Perfluorobutanoic acid	%	91	N/A	N/A	5221172
13C4-Perfluoroheptanoic acid	%	91	N/A	N/A	5221172

RDL = Reportable Detection Limit
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N/A = Not Applicable

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Site Location: BFTA

RESULTS OF ANALYSES OF WATER

Maxxam ID		FHZ603			
Sampling Date		2017/10/12 09:40			
COC Number		623638-05-01			
	UNITS	**MID POINT**	**RDL**	**MDL**	**QC Batch**
13C4-Perfluorooctanesulfonate	%	90	N/A	N/A	5221172
13C4-Perfluorooctanoic acid	%	89	N/A	N/A	5221172
13C5-Perfluorononanoic acid	%	93	N/A	N/A	5221172
13C5-Perfluoropentanoic acid	%	90	N/A	N/A	5221172
13C8-Perfluorooctane Sulfonamide	%	78	N/A	N/A	5221172
18O2-Perfluorohexanesulfonate	%	86	N/A	N/A	5221172
N-ethyl-d5-perfluorooctane sulfonam	%	81	N/A	N/A	5221172
N-methyl-d3-perfluorooctane sulfona	%	85	N/A	N/A	5221172

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Maxxam Job #: B7M6923
Report Date: 2017/10/26

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

TEST SUMMARY

Maxxam ID: FHZ601
Sample ID: EFFLUENT
Matrix: Water

Collected: 2017/10/12
Shipped:
Received: 2017/10/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water by SPE/LCMS	LCMS	5221172	2017/10/19	2017/10/23	Anjan Desai

Maxxam ID: FHZ602
Sample ID: INFLUENT PRW-4
Matrix: Water

Collected: 2017/10/12
Shipped:
Received: 2017/10/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water by SPE/LCMS	LCMS	5221172	2017/10/19	2017/10/23	Anjan Desai

Maxxam ID: FHZ603
Sample ID: MID POINT
Matrix: Water

Collected: 2017/10/12
Shipped:
Received: 2017/10/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water by SPE/LCMS	LCMS	5221172	2017/10/19	2017/10/23	Anjan Desai

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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
5221172	AD9	Spiked Blank	13C2-6:2 Fluorotelomer sulfonate	2017/10/23		84	%	50 - 150
			13C2-8:2 Fluorotelomer sulfonate	2017/10/23		88	%	50 - 150
			13C2-Perfluorodecanoic acid	2017/10/23		95	%	50 - 150
			13C2-Perfluorododecanoic acid	2017/10/23		81	%	50 - 150
			13C2-Perfluorohexanoic acid	2017/10/23		94	%	50 - 150
			13C2-perfluorotetradecanoic acid	2017/10/23		81	%	50 - 150
			13C2-Perfluoroundecanoic acid	2017/10/23		84	%	50 - 150
			13C4-Perfluorobutanoic acid	2017/10/23		90	%	50 - 150
			13C4-Perfluoroheptanoic acid	2017/10/23		92	%	50 - 150
			13C4-Perfluorooctanesulfonate	2017/10/23		99	%	50 - 150
			13C4-Perfluorooctanoic acid	2017/10/23		100	%	50 - 150
			13C5-Perfluorononanoic acid	2017/10/23		99	%	50 - 150
			13C5-Perfluoropentanoic acid	2017/10/23		85	%	50 - 150
			13C8-Perfluorooctane Sulfonamide	2017/10/23		76	%	50 - 150
			18O2-Perfluorohexanesulfonate	2017/10/23		94	%	50 - 150
			N-ethyl-d5-perfluorooctane sulfonam	2017/10/23		74	%	50 - 150
			N-methyl-d3-perfluorooctane sulfona	2017/10/23		74	%	50 - 150
			6:2 Fluorotelomer sulfonate	2017/10/23		104	%	70 - 130
			8:2 Fluorotelomer sulfonate	2017/10/23		110	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2017/10/23		110	%	70 - 130
			N-ethylperfluorooctane sulfonamidoe	2017/10/23		102	%	70 - 130
			N-methylperfluorooctane sulfonamide	2017/10/23		106	%	70 - 130
			N-methylperfluorooctanesulfonamidol	2017/10/23		112	%	70 - 130
			Perfluorobutanoic acid	2017/10/23		103	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2017/10/23		94	%	70 - 130
			Perfluorodecane Sulfonate	2017/10/23		97	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2017/10/23		104	%	70 - 130
			Perfluoroheptane sulfonate	2017/10/23		106	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2017/10/23		102	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2017/10/23		100	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2017/10/23		96	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2017/10/23		96	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2017/10/23		109	%	70 - 130
			Perfluorotetradecanoic Acid	2017/10/23		96	%	70 - 130
			Perfluorotridecanoic Acid	2017/10/23		101	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2017/10/23		102	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2017/10/23		95	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2017/10/23		100	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2017/10/23		95	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2017/10/23		98	%	70 - 130
5221172	AD9	Spiked Blank DUP	13C2-6:2 Fluorotelomer sulfonate	2017/10/23		86	%	50 - 150
			13C2-8:2 Fluorotelomer sulfonate	2017/10/23		84	%	50 - 150
			13C2-Perfluorodecanoic acid	2017/10/23		90	%	50 - 150
			13C2-Perfluorododecanoic acid	2017/10/23		80	%	50 - 150
			13C2-Perfluorohexanoic acid	2017/10/23		92	%	50 - 150
			13C2-perfluorotetradecanoic acid	2017/10/23		81	%	50 - 150
			13C2-Perfluoroundecanoic acid	2017/10/23		84	%	50 - 150
			13C4-Perfluorobutanoic acid	2017/10/23		89	%	50 - 150
			13C4-Perfluoroheptanoic acid	2017/10/23		90	%	50 - 150
			13C4-Perfluorooctanesulfonate	2017/10/23		87	%	50 - 150
			13C4-Perfluorooctanoic acid	2017/10/23		90	%	50 - 150
			13C5-Perfluorononanoic acid	2017/10/23		98	%	50 - 150
			13C5-Perfluoropentanoic acid	2017/10/23		88	%	50 - 150

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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
			13C8-Perfluorooctane Sulfonamide	2017/10/23		79	%	50 - 150
			18O2-Perfluorohexanesulfonate	2017/10/23		90	%	50 - 150
			N-ethyl-d5-perfluorooctane sulfonam	2017/10/23		77	%	50 - 150
			N-methyl-d3-perfluorooctane sulfona	2017/10/23		79	%	50 - 150
			6:2 Fluorotelomer sulfonate	2017/10/23		96	%	70 - 130
			8:2 Fluorotelomer sulfonate	2017/10/23		110	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2017/10/23		104	%	70 - 130
			N-ethylperfluorooctane sulfonamidoe	2017/10/23		99	%	70 - 130
			N-methylperfluorooctane sulfonamide	2017/10/23		98	%	70 - 130
			N-methylperfluorooctanesulfonamidol	2017/10/23		103	%	70 - 130
			Perfluorobutanoic acid	2017/10/23		102	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2017/10/23		91	%	70 - 130
			Perfluorodecane Sulfonate	2017/10/23		99	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2017/10/23		100	%	70 - 130
			Perfluoroheptane sulfonate	2017/10/23		101	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2017/10/23		102	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2017/10/23		98	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2017/10/23		92	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2017/10/23		95	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2017/10/23		105	%	70 - 130
			Perfluorotetradecanoic Acid	2017/10/23		95	%	70 - 130
			Perfluorotridecanoic Acid	2017/10/23		94	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2017/10/23		103	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2017/10/23		96	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2017/10/23		94	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2017/10/23		98	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2017/10/23		102	%	70 - 130
5221172	AD9	RPD	6:2 Fluorotelomer sulfonate	2017/10/23	7.5		%	30
			8:2 Fluorotelomer sulfonate	2017/10/23	0.0081		%	30
			N-ethylperfluorooctane sulfonamide	2017/10/23	5.5		%	30
			N-ethylperfluorooctane sulfonamidoe	2017/10/23	2.7		%	30
			N-methylperfluorooctane sulfonamide	2017/10/23	8.1		%	30
			N-methylperfluorooctanesulfonamidol	2017/10/23	7.6		%	30
			Perfluorobutanoic acid	2017/10/23	0.38		%	30
			Perfluorobutane Sulfonate (PFBS)	2017/10/23	3.7		%	30
			Perfluorodecane Sulfonate	2017/10/23	2.1		%	30
			Perfluoroheptanoic Acid (PFHpA)	2017/10/23	4.1		%	30
			Perfluoroheptane sulfonate	2017/10/23	4.2		%	30
			Perfluorohexanoic Acid (PFHxA)	2017/10/23	0.39		%	30
			Perfluorohexane Sulfonate (PFHxS)	2017/10/23	2.5		%	30
			Perfluorononanoic Acid (PFNA)	2017/10/23	4.8		%	30
			Perfluorooctane Sulfonamide (PFOSA)	2017/10/23	0.41		%	30
			Perfluoropentanoic Acid (PFPeA)	2017/10/23	3.2		%	30
			Perfluorotetradecanoic Acid	2017/10/23	1.2		%	30
			Perfluorotridecanoic Acid	2017/10/23	6.3		%	30
			Perfluoroundecanoic Acid (PFUnA)	2017/10/23	0.52		%	30
			Perfluorodecanoic Acid (PFDA)	2017/10/23	1.2		%	30
			Perfluorododecanoic Acid (PFDoA)	2017/10/23	5.6		%	30
			Perfluoro-n-Octanoic Acid (PFOA)	2017/10/23	3.0		%	30
			Perfluorooctane Sulfonate (PFOS)	2017/10/23	4.7		%	30
5221172	AD9	Method Blank	13C2-6:2 Fluorotelomer sulfonate	2017/10/23		81	%	50 - 150
			13C2-8:2 Fluorotelomer sulfonate	2017/10/23		82	%	50 - 150
			13C2-Perfluorodecanoic acid	2017/10/23		75	%	50 - 150

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A Bureau Veritas Group Company

Maxxam Job #: B7M6923
Report Date: 2017/10/26

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
			13C2-Perfluorododecanoic acid	2017/10/23		74	%	50 - 150
			13C2-Perfluorohexanoic acid	2017/10/23		87	%	50 - 150
			13C2-perfluorotetradecanoic acid	2017/10/23		63	%	50 - 150
			13C2-Perfluoroundecanoic acid	2017/10/23		75	%	50 - 150
			13C4-Perfluorobutanoic acid	2017/10/23		85	%	50 - 150
			13C4-Perfluoroheptanoic acid	2017/10/23		77	%	50 - 150
			13C4-Perfluorooctanesulfonate	2017/10/23		85	%	50 - 150
			13C4-Perfluorooctanoic acid	2017/10/23		84	%	50 - 150
			13C5-Perfluorononanoic acid	2017/10/23		92	%	50 - 150
			13C5-Perfluoropentanoic acid	2017/10/23		85	%	50 - 150
			13C8-Perfluorooctane Sulfonamide	2017/10/23		76	%	50 - 150
			18O2-Perfluorohexanesulfonate	2017/10/23		84	%	50 - 150
			N-ethyl-d5-perfluorooctane sulfonam	2017/10/23		71	%	50 - 150
			N-methyl-d3-perfluorooctane sulfona	2017/10/23		66	%	50 - 150
			6:2 Fluorotelomer sulfonate	2017/10/23	0.0077, RDL=0.020		ug/L	
			8:2 Fluorotelomer sulfonate	2017/10/23	<0.0036		ug/L	
			N-ethylperfluorooctane sulfonamide	2017/10/23	<0.0058		ug/L	
			N-ethylperfluorooctane sulfonamidoe	2017/10/23	<0.0063		ug/L	
			N-methylperfluorooctane sulfonamide	2017/10/23	<0.0041		ug/L	
			N-methylperfluorooctanesulfonamidol	2017/10/23	<0.0043		ug/L	
			Perfluorobutanoic acid	2017/10/23	<0.0043		ug/L	
			Perfluorobutane Sulfonate (PFBS)	2017/10/23	<0.0048		ug/L	
			Perfluorodecane Sulfonate	2017/10/23	<0.0046		ug/L	
			Perfluoroheptanoic Acid (PFHpA)	2017/10/23	<0.0033		ug/L	
			Perfluoroheptane sulfonate	2017/10/23	<0.0048		ug/L	
			Perfluorohexanoic Acid (PFHxA)	2017/10/23	<0.0029		ug/L	
			Perfluorohexane Sulfonate (PFHxS)	2017/10/23	<0.0034		ug/L	
			Perfluorononanoic Acid (PFNA)	2017/10/23	<0.0038		ug/L	
			Perfluorooctane Sulfonamide (PFOSA)	2017/10/23	<0.0036		ug/L	
			Perfluoropentanoic Acid (PFPeA)	2017/10/23	<0.0027		ug/L	
			Perfluorotetradecanoic Acid	2017/10/23	<0.0038		ug/L	
			Perfluorotridecanoic Acid	2017/10/23	<0.0033		ug/L	
			Perfluoroundecanoic Acid (PFUnA)	2017/10/23	<0.0043		ug/L	
			Perfluorodecanoic Acid (PFDA)	2017/10/23	<0.0040		ug/L	
			Perfluorododecanoic Acid (PFDoA)	2017/10/23	<0.0028		ug/L	
			Perfluoro-n-Octanoic Acid (PFOA)	2017/10/23	<0.0046		ug/L	
			Perfluorooctane Sulfonate (PFOS)	2017/10/23	<0.0026		ug/L	

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

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.

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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).

Colm McNamara, Senior Analyst, Liquid Chromatography

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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