

Your Project #: PFC
Your C.O.C. #: 558437-06-01

Attention:Tom Cambareri

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

Report Date: 2016/10/28
Report #: R4227501
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B6M8004
Received: 2016/10/21, 14:00

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date	Date	Laboratory Method	Reference
		Extracted	Analyzed		
PFOS and PFOA in water	3	2016/10/24	2016/10/25	CAM SOP-00894	EPA 537 m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005. 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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Melissa DiGrazia, Project Manager - ATUT
Email: MDiGrazia@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.

RESULTS OF ANALYSES OF WATER

Maxxam ID		DHH374				DHH375			
Sampling Date		2016/10/20 10:00				2016/10/20 10:00			
COC Number		558437-06-01				558437-06-01			
	UNITS	INFLUENT RRW-4	RDL	MDL	QC Batch	MIDPOINT	RDL	MDL	QC Batch
Miscellaneous Parameters									
6:2 Fluorotelomer sulfonate	ug/L	0.38	0.020	0.0065	4714900	0.074	0.020	0.0065	4714900
8:2 Fluorotelomer sulfonate	ug/L	0.22	0.020	0.0055	4714900	0.042	0.020	0.0055	4714900
N-ethylperfluorooctane sulfonamide	ug/L	<0.0053	0.020	0.0053	4714900	<0.0053	0.020	0.0053	4714900
N-ethylperfluorooctane sulfonamide	ug/L	<0.0049	0.020	0.0049	4714900	<0.0049	0.020	0.0049	4714900
N-methylperfluorooctane sulfonamide	ug/L	<0.0040	0.020	0.0040	4714900	<0.0040	0.020	0.0040	4714900
N-methylperfluorooctanesulfonamidol	ug/L	<0.0061	0.020	0.0061	4714900	<0.0061	0.020	0.0061	4714900
Perfluorobutane Sulfonate (PFBS)	ug/L	0.048	0.020	0.0019	4714900	0.0091	0.020	0.0019	4714900
Perfluorobutanoic acid	ug/L	0.052	0.020	0.0066	4714900	0.014	0.020	0.0066	4714900
Perfluorodecane Sulfonate	ug/L	<0.0043	0.020	0.0043	4714900	<0.0043	0.020	0.0043	4714900
Perfluorodecanoic Acid (PFDA)	ug/L	0.014	0.020	0.0066	4714900	<0.0066	0.020	0.0066	4714900
Perfluorododecanoic Acid (PFDoA)	ug/L	<0.0057	0.020	0.0057	4714900	<0.0057	0.020	0.0057	4714900
Perfluoroheptane sulfonate	ug/L	0.15	0.020	0.0036	4714900	0.024	0.020	0.0036	4714900
Perfluoroheptanoic Acid (PFHpA)	ug/L	0.10	0.020	0.0047	4714900	0.022	0.020	0.0047	4714900
Perfluorohexane Sulfonate (PFHxS)	ug/L	0.78	0.020	0.0040	4714900	0.13	0.020	0.0040	4714900
Perfluorohexanoic Acid (PFHxA)	ug/L	0.27	0.020	0.0046	4714900	0.053	0.020	0.0046	4714900
Perfluoro-n-Octanoic Acid (PFOA)	ug/L	0.13	0.020	0.0053	4714900	0.024	0.020	0.0053	4714900
Perfluorononanoic Acid (PFNA)	ug/L	0.073	0.020	0.0046	4714900	0.015	0.020	0.0046	4714900
Perfluorooctane Sulfonamide (PFOSA)	ug/L	0.0088	0.020	0.0058	4714900	<0.0058	0.020	0.0058	4714900
Perfluorooctane Sulfonate (PFOS)	ug/L	7.2 (1)	0.40	0.066	4714900	1.0 (2)	0.10	0.017	4719253
Perfluoropentanoic Acid (PFPeA)	ug/L	0.16	0.020	0.0036	4714900	0.035	0.020	0.0036	4714900
Perfluorotetradecanoic Acid	ug/L	<0.0052	0.020	0.0052	4714900	<0.0052	0.020	0.0052	4714900
Perfluorotridecanoic Acid	ug/L	<0.0032	0.020	0.0032	4714900	<0.0032	0.020	0.0032	4714900
Perfluoroundecanoic Acid (PFUnA)	ug/L	0.099	0.020	0.0037	4714900	0.017	0.020	0.0037	4714900
Surrogate Recovery (%)									
13C4-Perfluorooctanesulfonate	%	109	N/A	N/A	4714900	82	N/A	N/A	4719253
13C4-Perfluorooctanoic acid	%	96	N/A	N/A	4714900	104	N/A	N/A	4714900
13C8-Perfluorooctanesulfonamide	%	88	N/A	N/A	4714900	84	N/A	N/A	4714900
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Due to high concentration of the target analyte, sample required 20x dilution. Detection limit was adjusted accordingly. (2) Due to high concentration of the target analyte, sample required 5x dilution. Detection limit was adjusted accordingly.									

RESULTS OF ANALYSES OF WATER

Maxxam ID		DHH376			
Sampling Date		2016/10/20 10:00			
COC Number		558437-06-01			
	UNITS	EFFLUENT	RDL	MDL	QC Batch
Miscellaneous Parameters					
6:2 Fluorotelomer sulfonate	ug/L	<0.0065	0.020	0.0065	4714900
8:2 Fluorotelomer sulfonate	ug/L	<0.0055	0.020	0.0055	4714900
N-ethylperfluorooctane sulfonamide	ug/L	<0.0053	0.020	0.0053	4714900
N-ethylperfluorooctane sulfonamide	ug/L	<0.0049	0.020	0.0049	4714900
N-methylperfluorooctane sulfonamide	ug/L	<0.0040	0.020	0.0040	4714900
N-methylperfluorooctanesulfonamidol	ug/L	<0.0061	0.020	0.0061	4714900
Perfluorobutane Sulfonate (PFBS)	ug/L	<0.0019	0.020	0.0019	4714900
Perfluorobutanoic acid	ug/L	<0.0066	0.020	0.0066	4714900
Perfluorodecane Sulfonate	ug/L	<0.0043	0.020	0.0043	4714900
Perfluorodecanoic Acid (PFDA)	ug/L	<0.0066	0.020	0.0066	4714900
Perfluorododecanoic Acid (PFDoA)	ug/L	<0.0057	0.020	0.0057	4714900
Perfluoroheptane sulfonate	ug/L	<0.0036	0.020	0.0036	4714900
Perfluoroheptanoic Acid (PFHpA)	ug/L	<0.0047	0.020	0.0047	4714900
Perfluorohexane Sulfonate (PFHxS)	ug/L	<0.0040	0.020	0.0040	4714900
Perfluorohexanoic Acid (PFHxA)	ug/L	<0.0046	0.020	0.0046	4714900
Perfluoro-n-Octanoic Acid (PFOA)	ug/L	<0.0053	0.020	0.0053	4714900
Perfluorononanoic Acid (PFNA)	ug/L	<0.0046	0.020	0.0046	4714900
Perfluorooctane Sulfonamide (PFOSA)	ug/L	<0.0058	0.020	0.0058	4714900
Perfluorooctane Sulfonate (PFOS)	ug/L	<0.0033	0.020	0.0033	4714900
Perfluoropentanoic Acid (PFPeA)	ug/L	<0.0036	0.020	0.0036	4714900
Perfluorotetradecanoic Acid	ug/L	<0.0052	0.020	0.0052	4714900
Perfluorotridecanoic Acid	ug/L	<0.0032	0.020	0.0032	4714900
Perfluoroundecanoic Acid (PFUnA)	ug/L	<0.0037	0.020	0.0037	4714900
Surrogate Recovery (%)					
13C4-Perfluorooctanesulfonate	%	96	N/A	N/A	4714900
13C4-Perfluorooctanoic acid	%	104	N/A	N/A	4714900
13C8-Perfluorooctanesulfonamide	%	87	N/A	N/A	4714900
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable					

TEST SUMMARY

Maxxam ID: DHH374
Sample ID: INFLUENT RRW-4
Matrix: Water

Collected: 2016/10/20
Shipped:
Received: 2016/10/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4714900	2016/10/24	2016/10/25	Colm McNamara

Maxxam ID: DHH375
Sample ID: MIDPOINT
Matrix: Water

Collected: 2016/10/20
Shipped:
Received: 2016/10/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4714900	2016/10/24	2016/10/25	Colm McNamara

Maxxam ID: DHH376
Sample ID: EFFLUENT
Matrix: Water

Collected: 2016/10/20
Shipped:
Received: 2016/10/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4714900	2016/10/24	2016/10/25	Colm McNamara

GENERAL COMMENTS

Sample DHH375, PFOS and PFOA in water: Test repeated.

Results relate only to the items tested.

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4714900	CM5	Spiked Blank	13C4-Perfluorooctanesulfonate	2016/10/25		109	%	70 - 130
			13C4-Perfluorooctanoic acid	2016/10/25		107	%	70 - 130
			13C8-Perfluorooctanesulfonamide	2016/10/25		98	%	60 - 120
			6:2 Fluorotelomer sulfonate	2016/10/25		94	%	70 - 130
			8:2 Fluorotelomer sulfonate	2016/10/25		92	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2016/10/25		93	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2016/10/25		88	%	70 - 130
			N-methylperfluorooctane sulfonamide	2016/10/25		92	%	70 - 130
			N-methylperfluorooctanesulfonamidol	2016/10/25		87	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2016/10/25		86	%	70 - 130
			Perfluorobutanoic acid	2016/10/25		97	%	70 - 130
			Perfluorodecane Sulfonate	2016/10/25		85	%	70 - 130
			Perfluoroheptane sulfonate	2016/10/25		95	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2016/10/25		87	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2016/10/25		86	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2016/10/25		87	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2016/10/25		84	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2016/10/25		94	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2016/10/25		91	%	70 - 130
			Perfluorotetradecanoic Acid	2016/10/25		84	%	70 - 130
			Perfluorotridecanoic Acid	2016/10/25		90	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2016/10/25		92	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2016/10/25		89	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2016/10/25		93	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2016/10/25		90	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2016/10/25		83	%	70 - 130
4714900	CM5	Spiked Blank DUP	13C4-Perfluorooctanesulfonate	2016/10/25		103	%	70 - 130
			13C4-Perfluorooctanoic acid	2016/10/25		108	%	70 - 130
			13C8-Perfluorooctanesulfonamide	2016/10/25		99	%	60 - 120
			6:2 Fluorotelomer sulfonate	2016/10/25		86	%	70 - 130
			8:2 Fluorotelomer sulfonate	2016/10/25		86	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2016/10/25		85	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2016/10/25		75	%	70 - 130
			N-methylperfluorooctane sulfonamide	2016/10/25		85	%	70 - 130
			N-methylperfluorooctanesulfonamidol	2016/10/25		85	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2016/10/25		82	%	70 - 130
			Perfluorobutanoic acid	2016/10/25		86	%	70 - 130
			Perfluorodecane Sulfonate	2016/10/25		83	%	70 - 130
			Perfluoroheptane sulfonate	2016/10/25		82	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2016/10/25		87	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2016/10/25		82	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2016/10/25		92	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2016/10/25		81	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2016/10/25		88	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2016/10/25		89	%	70 - 130
			Perfluorotetradecanoic Acid	2016/10/25		86	%	70 - 130
			Perfluorotridecanoic Acid	2016/10/25		81	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2016/10/25		82	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2016/10/25		86	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2016/10/25		81	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2016/10/25		85	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2016/10/25		79	%	70 - 130
4714900	CM5	RPD	6:2 Fluorotelomer sulfonate	2016/10/25	8.7		%	30
			8:2 Fluorotelomer sulfonate	2016/10/25	7.0		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			N-ethylperfluorooctane sulfonamide	2016/10/25	9.5		%	30
			N-ethylperfluorooctane sulfonamide	2016/10/25	16		%	30
			N-methylperfluorooctane sulfonamide	2016/10/25	7.0		%	30
			N-methylperfluorooctanesulfonamidol	2016/10/25	1.9		%	30
			Perfluorobutane Sulfonate (PFBS)	2016/10/25	4.3		%	30
			Perfluorobutanoic acid	2016/10/25	12		%	30
			Perfluorodecane Sulfonate	2016/10/25	2.6		%	30
			Perfluoroheptane sulfonate	2016/10/25	15		%	30
			Perfluoroheptanoic Acid (PFHpA)	2016/10/25	0.46		%	30
			Perfluorohexane Sulfonate (PFHxS)	2016/10/25	4.5		%	30
			Perfluorohexanoic Acid (PFHxA)	2016/10/25	5.1		%	30
			Perfluorononanoic Acid (PFNA)	2016/10/25	3.4		%	30
			Perfluorooctane Sulfonamide (PFOSA)	2016/10/25	6.2		%	30
			Perfluoropentanoic Acid (PFPeA)	2016/10/25	1.6		%	30
			Perfluorotetradecanoic Acid	2016/10/25	1.9		%	30
			Perfluorotridecanoic Acid	2016/10/25	11		%	30
			Perfluoroundecanoic Acid (PFUnA)	2016/10/25	12		%	30
			Perfluorodecanoic Acid (PFDA)	2016/10/25	2.7		%	30
			Perfluorododecanoic Acid (PFDoA)	2016/10/25	14		%	30
			Perfluoro-n-Octanoic Acid (PFOA)	2016/10/25	5.5		%	30
			Perfluorooctane Sulfonate (PFOS)	2016/10/25	5.4		%	30
4714900	CM5	Method Blank	13C4-Perfluorooctanesulfonate	2016/10/25		103	%	70 - 130
			13C4-Perfluorooctanoic acid	2016/10/25		106	%	70 - 130
			13C8-Perfluorooctanesulfonamide	2016/10/25		102	%	60 - 120
			6:2 Fluorotelomer sulfonate	2016/10/25	<0.0065		ug/L	
			8:2 Fluorotelomer sulfonate	2016/10/25	<0.0055		ug/L	
			N-ethylperfluorooctane sulfonamide	2016/10/25	<0.0053		ug/L	
			N-ethylperfluorooctane sulfonamide	2016/10/25	<0.0049		ug/L	
			N-methylperfluorooctane sulfonamide	2016/10/25	<0.0040		ug/L	
			N-methylperfluorooctanesulfonamidol	2016/10/25	<0.0061		ug/L	
			Perfluorobutane Sulfonate (PFBS)	2016/10/25	<0.0019		ug/L	
			Perfluorobutanoic acid	2016/10/25	<0.0066		ug/L	
			Perfluorodecane Sulfonate	2016/10/25	<0.0043		ug/L	
			Perfluoroheptane sulfonate	2016/10/25	<0.0036		ug/L	
			Perfluoroheptanoic Acid (PFHpA)	2016/10/25	<0.0047		ug/L	
			Perfluorohexane Sulfonate (PFHxS)	2016/10/25	<0.0040		ug/L	
			Perfluorohexanoic Acid (PFHxA)	2016/10/25	<0.0046		ug/L	
			Perfluorononanoic Acid (PFNA)	2016/10/25	<0.0046		ug/L	
			Perfluorooctane Sulfonamide (PFOSA)	2016/10/25	<0.0058		ug/L	
			Perfluoropentanoic Acid (PFPeA)	2016/10/25	<0.0036		ug/L	
			Perfluorotetradecanoic Acid	2016/10/25	<0.0052		ug/L	
			Perfluorotridecanoic Acid	2016/10/25	<0.0032		ug/L	
			Perfluoroundecanoic Acid (PFUnA)	2016/10/25	<0.0037		ug/L	
			Perfluorodecanoic Acid (PFDA)	2016/10/25	<0.0066		ug/L	
			Perfluorododecanoic Acid (PFDoA)	2016/10/25	<0.0057		ug/L	
			Perfluoro-n-Octanoic Acid (PFOA)	2016/10/25	<0.0053		ug/L	
			Perfluorooctane Sulfonate (PFOS)	2016/10/25	<0.0033		ug/L	
4719253	CM5	Matrix Spike	13C4-Perfluorooctanesulfonate	2016/10/27		77	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2016/10/27		83	%	70 - 130
4719253	CM5	Matrix Spike DUP	13C4-Perfluorooctanesulfonate	2016/10/27		84	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2016/10/27		75	%	70 - 130
4719253	CM5	MS/MSD RPD	Perfluorooctane Sulfonate (PFOS)	2016/10/27	10		%	30
4719253	CM5	Spiked Blank	13C4-Perfluorooctanesulfonate	2016/10/27		89	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2016/10/27		89	%	70 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4719253	CM5	Method Blank	13C4-Perfluorooctanesulfonate	2016/10/27		100	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2016/10/27	<0.0033		ug/L	

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.

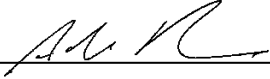
Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

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.

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.

Maxxam
A Bureau of the State Company

RUSH

(905) 917-5700 Toll-Free (800) 563-6266 Fax (905) 917-5777 www.maxxam.ca

21-Oct-16 14:00

Melissa DiGrazia

B6M8004

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INVOICE TO:

Company Name: #29803 Cape Cod Commission
 Attention: Scott Michaud
 Address: 3225 Main Street
 Barnstable MA 02630
 Tel: (508) 362-3828 x1234 Fax
 Email: smichaud@capecodcommission.org

REPORT TO:

Company Name: same
 Attention: same
 Address: same
 Tel: same Fax: same
 Email: same

PROJECT INFORMATION:

Quotation #
 P.O. #
 Project: PFC
 Project Name: IFU
 Site #
 Sampled By: Scott Michaud

COC #: ENV-641
 Bottle Order #: 588437
 Project Manager: Melissa DiGrazia
 C#558437-06-01

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)

Table 1 Res/Park Medium/Fine
 Table 2 Ind/Comm Coarse
 Table 3 Agri/Other For RSC
 Table

Other Regulations

CCME Sanitary Sewer Bylaw
 Reg 558 Storm Sewer Bylaw
 MISA Municipality
 PWQO
 Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)?

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle) Metals / Hg / Cr VI	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)
1	INFLUENT RW-4	10/20/16	1000	gw	PFAS	
2	MID POINT	↓	↓	h2o	✓	
3	EFFLUENT	↓	↓	h2o	✓	
4						
5						
6						
7						
8						
9						
10						

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

Regular (Standard) TAT:
 (will be applied if Rush TAT is not specified)
 Standard TAT = 5-7 Working days for most tests. See below
 Please note: Standard TAT for certain tests such as BOD and Dissolved Oxygen are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
 Date Required: 10/28/16 Time Required:
 Rush Confirmation Number: (call lab for #)

RELINQUISHED BY: (Signature/Print) <u>Scott Michaud</u>	Date: (YY/MM/DD) 10/20/16	Time 1330	RECEIVED BY: (Signature/Print) <u>Tannir Singh TANNIR SENYU</u>	Date: (YY/MM/DD) 10/21/16	Time 14:00	# jars used and not submitted	Laboratory Use Only	Custody Seal	Yes	No
							Time Sensitive	Temperature (°C) on Receipt 4.3/4.3/3.3	Present	Intact

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS. SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM. White: Maxxam Yellow: Client

Your Project #: PFC
Your C.O.C. #: 558437-07-01

Attention:Tom Cambareri

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

Report Date: 2016/11/17
Report #: R4250341
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B600288
Received: 2016/11/04, 14:13

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date	Date	Laboratory Method	Reference
		Extracted	Analyzed		
PFOS and PFOA in water	1	2016/11/09	2016/11/10	CAM SOP-00894	EPA 537 m
PFOS and PFOA in water	2	2016/11/14	2016/11/15	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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Melissa DiGrazia, Project Manager - ATUT
Email: MDiGrazia@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.

RESULTS OF ANALYSES OF WATER

Maxxam ID		DJU681				DJU682	DJU683			
Sampling Date		2016/11/03 14:20				2016/11/03 14:20	2016/11/03 14:20			
COC Number		558437-07-01				558437-07-01	558437-07-01			
	UNITS	INFLUENT RAW-4	RDL	MDL	QC Batch	MID POINT	EFFLUENT	RDL	MDL	QC Batch
Miscellaneous Parameters										
6:2 Fluorotelomer sulfonate	ug/L	0.39	0.020	0.0065	4747122	0.060	<0.0065	0.020	0.0065	4747122
8:2 Fluorotelomer sulfonate	ug/L	0.30	0.020	0.0055	4747122	0.020	<0.0055	0.020	0.0055	4747122
N-ethylperfluorooctane sulfonamide	ug/L	<0.0053	0.020	0.0053	4747122	<0.0053	<0.0053	0.020	0.0053	4747122
N-ethylperfluorooctane sulfonamide	ug/L	<0.0049	0.020	0.0049	4747122	<0.0049	<0.0049	0.020	0.0049	4747122
N-methylperfluorooctane sulfonamide	ug/L	<0.0040	0.020	0.0040	4747122	<0.0040	<0.0040	0.020	0.0040	4747122
N-methylperfluorooctanesulfonamidol	ug/L	<0.0061	0.020	0.0061	4747122	<0.0061	<0.0061	0.020	0.0061	4747122
Perfluorobutane Sulfonate (PFBS)	ug/L	0.050	0.020	0.0019	4747122	0.0066	<0.0019	0.020	0.0019	4747122
Perfluorobutanoic acid	ug/L	0.055	0.020	0.0066	4747122	0.014	<0.0066	0.020	0.0066	4747122
Perfluorodecane Sulfonate	ug/L	<0.0043	0.020	0.0043	4747122	<0.0043	<0.0043	0.020	0.0043	4747122
Perfluorodecanoic Acid (PFDA)	ug/L	0.014	0.020	0.0066	4747122	<0.0066	<0.0066	0.020	0.0066	4747122
Perfluorododecanoic Acid (PFDoA)	ug/L	<0.0057	0.020	0.0057	4747122	<0.0057	<0.0057	0.020	0.0057	4747122
Perfluoroheptane sulfonate	ug/L	0.11	0.020	0.0036	4747122	0.014	<0.0036	0.020	0.0036	4747122
Perfluoroheptanoic Acid (PFHpA)	ug/L	0.10	0.020	0.0047	4747122	0.017	<0.0047	0.020	0.0047	4747122
Perfluorohexane Sulfonate (PFHxS)	ug/L	0.83	0.80	0.16	4741700	0.10	<0.0040	0.020	0.0040	4747122
Perfluorohexanoic Acid (PFHxA)	ug/L	0.28	0.020	0.0046	4747122	0.054	<0.0046	0.020	0.0046	4747122
Perfluoro-n-Octanoic Acid (PFOA)	ug/L	0.11	0.020	0.0053	4747122	0.018	<0.0053	0.020	0.0053	4747122
Perfluorononanoic Acid (PFNA)	ug/L	0.070	0.020	0.0046	4747122	0.0067	<0.0046	0.020	0.0046	4747122
Perfluorooctane Sulfonamide (PFOSA)	ug/L	0.011	0.020	0.0058	4747122	<0.0058	<0.0058	0.020	0.0058	4747122
Perfluorooctane Sulfonate (PFOS)	ug/L	7.9	0.80	0.14	4741700	0.65	<0.0033	0.020	0.0033	4747122
Perfluoropentanoic Acid (PFPeA)	ug/L	0.17	0.020	0.0036	4747122	0.033	<0.0036	0.020	0.0036	4747122
Perfluorotetradecanoic Acid	ug/L	<0.0052	0.020	0.0052	4747122	<0.0052	<0.0052	0.020	0.0052	4747122
Perfluorotridecanoic Acid	ug/L	<0.0032	0.020	0.0032	4747122	<0.0032	<0.0032	0.020	0.0032	4747122
Perfluoroundecanoic Acid (PFUnA)	ug/L	0.10	0.020	0.0037	4747122	0.0044	<0.0037	0.020	0.0037	4747122
Surrogate Recovery (%)										
13C4-Perfluorooctanesulfonate	%	120	N/A	N/A	4741700	96	98	N/A	N/A	4747122
13C4-Perfluorooctanoic acid	%	84	N/A	N/A	4747122	101	107	N/A	N/A	4747122
13C8-Perfluorooctanesulfonamide	%	81	N/A	N/A	4747122	79	77	N/A	N/A	4747122
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
N/A = Not Applicable										

TEST SUMMARY

Maxxam ID: DJU681
Sample ID: INFLUENT RAW-4
Matrix: Water

Collected: 2016/11/03
Shipped:
Received: 2016/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4747122	2016/11/14	2016/11/15	Colm McNamara

Maxxam ID: DJU682
Sample ID: MID POINT
Matrix: Water

Collected: 2016/11/03
Shipped:
Received: 2016/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4747122	2016/11/14	2016/11/15	Colm McNamara

Maxxam ID: DJU683
Sample ID: EFFLUENT
Matrix: Water

Collected: 2016/11/03
Shipped:
Received: 2016/11/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4747122	2016/11/14	2016/11/15	Colm McNamara

GENERAL COMMENTS

Sample DJU681, PFOS and PFOA in water: Test repeated.

Results relate only to the items tested.

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4741700	CM5	Matrix Spike	13C4-Perfluorooctanesulfonate	2016/11/10		167 (1)	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2016/11/10		110	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2016/11/10		98	%	70 - 130
4741700	CM5	Matrix Spike DUP	13C4-Perfluorooctanesulfonate	2016/11/10		159 (2)	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2016/11/10		106	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2016/11/10		88	%	70 - 130
4741700	CM5	MS/MSD RPD	Perfluorohexane Sulfonate (PFHxS)	2016/11/10	3.0		%	30
			Perfluorooctane Sulfonate (PFOS)	2016/11/10	10		%	30
4741700	CM5	Spiked Blank	13C4-Perfluorooctanesulfonate	2016/11/10		145 (1)	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2016/11/10		91	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2016/11/10		83	%	70 - 130
4741700	CM5	Method Blank	13C4-Perfluorooctanesulfonate	2016/11/10		133 (1)		70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2016/11/10	<0.16		ug/L	
			Perfluorooctane Sulfonate (PFOS)	2016/11/10	<0.14		ug/L	
4747122	CM5	Spiked Blank	13C4-Perfluorooctanesulfonate	2016/11/15		86	%	70 - 130
			13C4-Perfluorooctanoic acid	2016/11/15		84	%	70 - 130
			13C8-Perfluorooctanesulfonamide	2016/11/15		79	%	60 - 120
			6:2 Fluorotelomer sulfonate	2016/11/15		108	%	70 - 130
			8:2 Fluorotelomer sulfonate	2016/11/15		122	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2016/11/15		90	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2016/11/15		104	%	70 - 130
			N-methylperfluorooctane sulfonamide	2016/11/15		95	%	70 - 130
			N-methylperfluorooctanesulfonamidol	2016/11/15		101	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2016/11/15		119	%	70 - 130
			Perfluorobutanoic acid	2016/11/15		110	%	70 - 130
			Perfluorodecane Sulfonate	2016/11/15		121	%	70 - 130
			Perfluoroheptane sulfonate	2016/11/15		110	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2016/11/15		114	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2016/11/15		111	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2016/11/15		124	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2016/11/15		114	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2016/11/15		119	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2016/11/15		109	%	70 - 130
			Perfluorotetradecanoic Acid	2016/11/15		113	%	70 - 130
			Perfluorotridecanoic Acid	2016/11/15		114	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2016/11/15		117	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2016/11/15		130	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2016/11/15		104	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2016/11/15		119	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2016/11/15		118	%	70 - 130
			4747122	CM5	Spiked Blank DUP	13C4-Perfluorooctanesulfonate	2016/11/15	
13C4-Perfluorooctanoic acid	2016/11/15					88	%	70 - 130
13C8-Perfluorooctanesulfonamide	2016/11/15					82	%	60 - 120
6:2 Fluorotelomer sulfonate	2016/11/15					88	%	70 - 130
8:2 Fluorotelomer sulfonate	2016/11/15					100	%	70 - 130
N-ethylperfluorooctane sulfonamide	2016/11/15					86	%	70 - 130
N-ethylperfluorooctane sulfonamide	2016/11/15					103	%	70 - 130
N-methylperfluorooctane sulfonamide	2016/11/15					90	%	70 - 130
N-methylperfluorooctanesulfonamidol	2016/11/15					94	%	70 - 130
Perfluorobutane Sulfonate (PFBS)	2016/11/15					100	%	70 - 130
Perfluorobutanoic acid	2016/11/15					101	%	70 - 130
Perfluorodecane Sulfonate	2016/11/15					101	%	70 - 130
Perfluoroheptane sulfonate	2016/11/15					103	%	70 - 130
Perfluoroheptanoic Acid (PFHpA)	2016/11/15		105	%	70 - 130			

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4747122	CM5	RPD	Perfluorohexane Sulfonate (PFHxS)	2016/11/15		103	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2016/11/15		108	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2016/11/15		109	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2016/11/15		107	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2016/11/15		105	%	70 - 130
			Perfluorotetradecanoic Acid	2016/11/15		101	%	70 - 130
			Perfluorotridecanoic Acid	2016/11/15		102	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2016/11/15		103	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2016/11/15		108	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2016/11/15		94	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2016/11/15		106	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2016/11/15		102	%	70 - 130
			6:2 Fluorotelomer sulfonate	2016/11/15		21	%	30
			8:2 Fluorotelomer sulfonate	2016/11/15		20	%	30
			N-ethylperfluorooctane sulfonamide	2016/11/15		5.0	%	30
			N-ethylperfluorooctane sulfonamide	2016/11/15		0.77	%	30
			N-methylperfluorooctane sulfonamide	2016/11/15		6.3	%	30
			N-methylperfluorooctanesulfonamidol	2016/11/15		6.6	%	30
			Perfluorobutane Sulfonate (PFBS)	2016/11/15		18	%	30
			Perfluorobutanoic acid	2016/11/15		8.3	%	30
			Perfluorodecane Sulfonate	2016/11/15		19	%	30
			Perfluoroheptane sulfonate	2016/11/15		6.4	%	30
			Perfluoroheptanoic Acid (PFHpA)	2016/11/15		7.8	%	30
			Perfluorohexane Sulfonate (PFHxS)	2016/11/15		7.9	%	30
			Perfluorohexanoic Acid (PFHxA)	2016/11/15		13	%	30
			Perfluorononanoic Acid (PFNA)	2016/11/15		4.7	%	30
			Perfluorooctane Sulfonamide (PFOSA)	2016/11/15		11	%	30
			Perfluoropentanoic Acid (PFPeA)	2016/11/15		4.1	%	30
			Perfluorotetradecanoic Acid	2016/11/15		11	%	30
			Perfluorotridecanoic Acid	2016/11/15		11	%	30
			Perfluoroundecanoic Acid (PFUnA)	2016/11/15		13	%	30
			Perfluorodecanoic Acid (PFDA)	2016/11/15		19	%	30
			Perfluorododecanoic Acid (PFDoA)	2016/11/15		11	%	30
			Perfluoro-n-Octanoic Acid (PFOA)	2016/11/15		12	%	30
Perfluorooctane Sulfonate (PFOS)	2016/11/15		15	%	30			
4747122	CM5	Method Blank	13C4-Perfluorooctanesulfonate	2016/11/15		98	%	70 - 130
			13C4-Perfluorooctanoic acid	2016/11/15		107	%	70 - 130
			13C8-Perfluorooctanesulfonamide	2016/11/15		95	%	60 - 120
			6:2 Fluorotelomer sulfonate	2016/11/15	<0.0065	ug/L		
			8:2 Fluorotelomer sulfonate	2016/11/15	<0.0055	ug/L		
			N-ethylperfluorooctane sulfonamide	2016/11/15	<0.0053	ug/L		
			N-ethylperfluorooctane sulfonamide	2016/11/15	<0.0049	ug/L		
			N-methylperfluorooctane sulfonamide	2016/11/15	<0.0040	ug/L		
			N-methylperfluorooctanesulfonamidol	2016/11/15	<0.0061	ug/L		
			Perfluorobutane Sulfonate (PFBS)	2016/11/15	<0.0019	ug/L		
			Perfluorobutanoic acid	2016/11/15	<0.0066	ug/L		
			Perfluorodecane Sulfonate	2016/11/15	<0.0043	ug/L		
			Perfluoroheptane sulfonate	2016/11/15	<0.0036	ug/L		
			Perfluoroheptanoic Acid (PFHpA)	2016/11/15	<0.0047	ug/L		
			Perfluorohexane Sulfonate (PFHxS)	2016/11/15	<0.0040	ug/L		
			Perfluorohexanoic Acid (PFHxA)	2016/11/15	<0.0046	ug/L		
			Perfluorononanoic Acid (PFNA)	2016/11/15	<0.0046	ug/L		
			Perfluorooctane Sulfonamide (PFOSA)	2016/11/15	<0.0058	ug/L		
			Perfluoropentanoic Acid (PFPeA)	2016/11/15	<0.0036	ug/L		

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Perfluorotetradecanoic Acid	2016/11/15	<0.0052		ug/L	
			Perfluorotridecanoic Acid	2016/11/15	<0.0032		ug/L	
			Perfluoroundecanoic Acid (PFUnA)	2016/11/15	<0.0037		ug/L	
			Perfluorodecanoic Acid (PFDA)	2016/11/15	<0.0066		ug/L	
			Perfluorododecanoic Acid (PFDoA)	2016/11/15	<0.0057		ug/L	
			Perfluoro-n-Octanoic Acid (PFOA)	2016/11/15	<0.0053		ug/L	
			Perfluorooctane Sulfonate (PFOS)	2016/11/15	<0.0033		ug/L	

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.

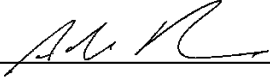
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

(1) Surrogate recovery was above the defined upper control limit (UCL). Because quantitation is performed using isotope dilution techniques, any apparent gains of the native compound that may occur during any of the sample preparation, extraction, cleanup or determinative steps will be mirrored by a similar gain 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 high surrogate recovery.

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

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.

Your Project #: PFC
 Site Location: BFTA
 Your C.O.C. #: 558437-09-01

Attention: Tom Cambareri

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

Report Date: 2016/12/06
 Report #: R4276471
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B6P2160
Received: 2016/11/18, 13:34

Sample Matrix: Water
 # Samples Received: 3

Analyses	Quantity	Date	Date	Laboratory Method	Reference
		Extracted	Analyzed		
PFOS and PFOA in water	3	2016/12/01	2016/12/02	CAM SOP-00894	EPA 537 m

Remarks:

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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.

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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.

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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.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
 Melissa DiGrazia, Project Manager - ATUT
 Email: MDiGrazia@maxxam.ca
 Phone# (905) 817-5700

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RESULTS OF ANALYSES OF WATER

Maxxam ID		DMD622			DMD623			
Sampling Date		2016/11/17 09:00			2016/11/17 09:00			
COC Number		558437-09-01			558437-09-01			
	UNITS	PRW-4 INFLUENT	RDL	MDL	MID POINT	RDL	MDL	QC Batch
Miscellaneous Parameters								
6:2 Fluorotelomer sulfonate	ug/L	0.28	0.020	0.0065	0.095	0.020	0.0065	4774571
8:2 Fluorotelomer sulfonate	ug/L	0.21	0.020	0.0055	0.045	0.020	0.0055	4774571
N-ethylperfluorooctane sulfonamide	ug/L	<0.0053	0.020	0.0053	<0.0053	0.020	0.0053	4774571
N-ethylperfluorooctane sulfonamide	ug/L	<0.0049	0.020	0.0049	<0.0049	0.020	0.0049	4774571
N-methylperfluorooctane sulfonamide	ug/L	<0.0040	0.020	0.0040	<0.0040	0.020	0.0040	4774571
N-methylperfluorooctanesulfonamidol	ug/L	<0.0061	0.020	0.0061	<0.0061	0.020	0.0061	4774571
Perfluorobutane Sulfonate (PFBS)	ug/L	0.041	0.020	0.0019	0.014	0.020	0.0019	4774571
Perfluorobutanoic acid	ug/L	0.041	0.020	0.0066	0.017	0.020	0.0066	4774571
Perfluorodecane Sulfonate	ug/L	0.0049	0.020	0.0043	<0.0043	0.020	0.0043	4774571
Perfluorodecanoic Acid (PFDA)	ug/L	0.014	0.020	0.0066	<0.0066	0.020	0.0066	4774571
Perfluorododecanoic Acid (PFDoA)	ug/L	<0.0057	0.020	0.0057	<0.0057	0.020	0.0057	4774571
Perfluoroheptane sulfonate	ug/L	0.089	0.020	0.0036	0.025	0.020	0.0036	4774571
Perfluoroheptanoic Acid (PFHpA)	ug/L	0.088	0.020	0.0047	0.029	0.020	0.0047	4774571
Perfluorohexane Sulfonate (PFHxS)	ug/L	0.61	0.020	0.0040	0.16	0.020	0.0040	4774571
Perfluorohexanoic Acid (PFHxA)	ug/L	0.22	0.020	0.0046	0.069	0.020	0.0046	4774571
Perfluoro-n-Octanoic Acid (PFOA)	ug/L	0.099	0.020	0.0053	0.030	0.020	0.0053	4774571
Perfluorononanoic Acid (PFNA)	ug/L	0.064	0.020	0.0046	0.018	0.020	0.0046	4774571
Perfluorooctane Sulfonamide (PFOSA)	ug/L	0.014	0.020	0.0058	<0.0058	0.020	0.0058	4774571
Perfluorooctane Sulfonate (PFOS)	ug/L	5.4 (1)	0.40	0.066	1.2 (2)	0.10	0.017	4776321
Perfluoropentanoic Acid (PFPeA)	ug/L	0.15	0.020	0.0036	0.050	0.020	0.0036	4774571
Perfluorotetradecanoic Acid	ug/L	<0.0052	0.020	0.0052	<0.0052	0.020	0.0052	4774571
Perfluorotridecanoic Acid	ug/L	<0.0032	0.020	0.0032	<0.0032	0.020	0.0032	4774571
Perfluoroundecanoic Acid (PFUnA)	ug/L	0.081	0.020	0.0037	0.020	0.020	0.0037	4774571
Surrogate Recovery (%)								
13C4-Perfluorooctanesulfonate	%	86	N/A	N/A	93	N/A	N/A	4776321
13C4-Perfluorooctanoic acid	%	86	N/A	N/A	85	N/A	N/A	4774571
13C8-Perfluorooctanesulfonamide	%	82	N/A	N/A	81	N/A	N/A	4774571
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Due to high concentration of the target analyte, sample required 20x dilution. Detection limit was adjusted accordingly. (2) Due to high concentration of the target analyte, sample required 5x dilution. Detection limit was adjusted accordingly.								

RESULTS OF ANALYSES OF WATER

Maxxam ID		DMD624			
Sampling Date		2016/11/17 09:00			
COC Number		558437-09-01			
	UNITS	EFFLUENT	RDL	MDL	QC Batch
Miscellaneous Parameters					
6:2 Fluorotelomer sulfonate	ug/L	<0.0065	0.020	0.0065	4774571
8:2 Fluorotelomer sulfonate	ug/L	<0.0055	0.020	0.0055	4774571
N-ethylperfluorooctane sulfonamide	ug/L	<0.0053	0.020	0.0053	4774571
N-ethylperfluorooctane sulfonamide	ug/L	<0.0049	0.020	0.0049	4774571
N-methylperfluorooctane sulfonamide	ug/L	<0.0040	0.020	0.0040	4774571
N-methylperfluorooctanesulfonamidol	ug/L	<0.0061	0.020	0.0061	4774571
Perfluorobutane Sulfonate (PFBS)	ug/L	<0.0019	0.020	0.0019	4774571
Perfluorobutanoic acid	ug/L	<0.0066	0.020	0.0066	4774571
Perfluorodecane Sulfonate	ug/L	<0.0043	0.020	0.0043	4774571
Perfluorodecanoic Acid (PFDA)	ug/L	<0.0066	0.020	0.0066	4774571
Perfluorododecanoic Acid (PFDoA)	ug/L	<0.0057	0.020	0.0057	4774571
Perfluoroheptane sulfonate	ug/L	<0.0036	0.020	0.0036	4774571
Perfluoroheptanoic Acid (PFHpA)	ug/L	<0.0047	0.020	0.0047	4774571
Perfluorohexane Sulfonate (PFHxS)	ug/L	<0.0040	0.020	0.0040	4774571
Perfluorohexanoic Acid (PFHxA)	ug/L	<0.0046	0.020	0.0046	4774571
Perfluoro-n-Octanoic Acid (PFOA)	ug/L	<0.0053	0.020	0.0053	4774571
Perfluorononanoic Acid (PFNA)	ug/L	<0.0046	0.020	0.0046	4774571
Perfluorooctane Sulfonamide (PFOSA)	ug/L	<0.0058	0.020	0.0058	4774571
Perfluorooctane Sulfonate (PFOS)	ug/L	0.017	0.020	0.0033	4774571
Perfluoropentanoic Acid (PFPeA)	ug/L	<0.0036	0.020	0.0036	4774571
Perfluorotetradecanoic Acid	ug/L	<0.0052	0.020	0.0052	4774571
Perfluorotridecanoic Acid	ug/L	<0.0032	0.020	0.0032	4774571
Perfluoroundecanoic Acid (PFUnA)	ug/L	<0.0037	0.020	0.0037	4774571
Surrogate Recovery (%)					
13C4-Perfluorooctanesulfonate	%	84	N/A	N/A	4774571
13C4-Perfluorooctanoic acid	%	87	N/A	N/A	4774571
13C8-Perfluorooctanesulfonamide	%	84	N/A	N/A	4774571
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable					

TEST SUMMARY

Maxxam ID: DMD622
Sample ID: PRW-4 INFLUENT
Matrix: Water

Collected: 2016/11/17
Shipped:
Received: 2016/11/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4774571	2016/12/01	2016/12/02	Colm McNamara

Maxxam ID: DMD623
Sample ID: MID POINT
Matrix: Water

Collected: 2016/11/17
Shipped:
Received: 2016/11/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4774571	2016/12/01	2016/12/02	Colm McNamara

Maxxam ID: DMD624
Sample ID: EFFLUENT
Matrix: Water

Collected: 2016/11/17
Shipped:
Received: 2016/11/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4774571	2016/12/01	2016/12/02	Colm McNamara

GENERAL COMMENTS

Sample DMD622, PFOS and PFOA in water: Test repeated.
Sample DMD623, PFOS and PFOA in water: Test repeated.

Results relate only to the items tested.

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4774571	CM5	Spiked Blank	13C4-Perfluorooctanesulfonate	2016/12/02		92	%	70 - 130
			13C4-Perfluorooctanoic acid	2016/12/02		85	%	70 - 130
			13C8-Perfluorooctanesulfonamide	2016/12/02		90	%	60 - 120
			6:2 Fluorotelomer sulfonate	2016/12/02		110	%	70 - 130
			8:2 Fluorotelomer sulfonate	2016/12/02		119	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2016/12/02		109	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2016/12/02		103	%	70 - 130
			N-methylperfluorooctane sulfonamide	2016/12/02		101	%	70 - 130
			N-methylperfluorooctanesulfonamidol	2016/12/02		110	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2016/12/02		114	%	70 - 130
			Perfluorobutanoic acid	2016/12/02		115	%	70 - 130
			Perfluorodecane Sulfonate	2016/12/02		102	%	70 - 130
			Perfluoroheptane sulfonate	2016/12/02		112	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2016/12/02		112	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2016/12/02		110	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2016/12/02		114	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2016/12/02		116	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2016/12/02		117	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2016/12/02		110	%	70 - 130
			Perfluorotetradecanoic Acid	2016/12/02		113	%	70 - 130
			Perfluorotridecanoic Acid	2016/12/02		107	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2016/12/02		110	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2016/12/02		118	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2016/12/02		107	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2016/12/02		122	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2016/12/02		114	%	70 - 130
4774571	CM5	Spiked Blank DUP	13C4-Perfluorooctanesulfonate	2016/12/02		94	%	70 - 130
			13C4-Perfluorooctanoic acid	2016/12/02		91	%	70 - 130
			13C8-Perfluorooctanesulfonamide	2016/12/02		81	%	60 - 120
			6:2 Fluorotelomer sulfonate	2016/12/02		105	%	70 - 130
			8:2 Fluorotelomer sulfonate	2016/12/02		102	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2016/12/02		113	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2016/12/02		107	%	70 - 130
			N-methylperfluorooctane sulfonamide	2016/12/02		108	%	70 - 130
			N-methylperfluorooctanesulfonamidol	2016/12/02		98	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2016/12/02		110	%	70 - 130
			Perfluorobutanoic acid	2016/12/02		100	%	70 - 130
			Perfluorodecane Sulfonate	2016/12/02		103	%	70 - 130
			Perfluoroheptane sulfonate	2016/12/02		112	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2016/12/02		103	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2016/12/02		108	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2016/12/02		110	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2016/12/02		111	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2016/12/02		110	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2016/12/02		107	%	70 - 130
			Perfluorotetradecanoic Acid	2016/12/02		109	%	70 - 130
			Perfluorotridecanoic Acid	2016/12/02		109	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2016/12/02		110	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2016/12/02		113	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2016/12/02		107	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2016/12/02		118	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2016/12/02		107	%	70 - 130
4774571	CM5	RPD	6:2 Fluorotelomer sulfonate	2016/12/02	4.5		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			8:2 Fluorotelomer sulfonate	2016/12/02	15		%	30
			N-ethylperfluorooctane sulfonamide	2016/12/02	3.2		%	30
			N-ethylperfluorooctane sulfonamide	2016/12/02	3.2		%	30
			N-methylperfluorooctane sulfonamide	2016/12/02	6.9		%	30
			N-methylperfluorooctanesulfonamidol	2016/12/02	11		%	30
			Perfluorobutane Sulfonate (PFBS)	2016/12/02	4.1		%	30
			Perfluorobutanoic acid	2016/12/02	14		%	30
			Perfluorodecane Sulfonate	2016/12/02	1.4		%	30
			Perfluoroheptane sulfonate	2016/12/02	0		%	30
			Perfluoroheptanoic Acid (PFHpA)	2016/12/02	8.0		%	30
			Perfluorohexane Sulfonate (PFHxS)	2016/12/02	1.8		%	30
			Perfluorohexanoic Acid (PFHxA)	2016/12/02	3.2		%	30
			Perfluorononanoic Acid (PFNA)	2016/12/02	4.1		%	30
			Perfluorooctane Sulfonamide (PFOSA)	2016/12/02	6.0		%	30
			Perfluoropentanoic Acid (PFPeA)	2016/12/02	2.8		%	30
			Perfluorotetradecanoic Acid	2016/12/02	3.2		%	30
			Perfluorotridecanoic Acid	2016/12/02	2.4		%	30
			Perfluoroundecanoic Acid (PFUnA)	2016/12/02	0		%	30
			Perfluorodecanoic Acid (PFDA)	2016/12/02	4.9		%	30
			Perfluorododecanoic Acid (PFDoA)	2016/12/02	0.19		%	30
			Perfluoro-n-Octanoic Acid (PFOA)	2016/12/02	3.7		%	30
			Perfluorooctane Sulfonate (PFOS)	2016/12/02	6.0		%	30
4774571	CM5	Method Blank	13C4-Perfluorooctanesulfonate	2016/12/02		98	%	70 - 130
			13C4-Perfluorooctanoic acid	2016/12/02		96	%	70 - 130
			13C8-Perfluorooctanesulfonamide	2016/12/02		95	%	60 - 120
			6:2 Fluorotelomer sulfonate	2016/12/02	<0.0065		ug/L	
			8:2 Fluorotelomer sulfonate	2016/12/02	<0.0055		ug/L	
			N-ethylperfluorooctane sulfonamide	2016/12/02	<0.0053		ug/L	
			N-ethylperfluorooctane sulfonamide	2016/12/02	<0.0049		ug/L	
			N-methylperfluorooctane sulfonamide	2016/12/02	<0.0040		ug/L	
			N-methylperfluorooctanesulfonamidol	2016/12/02	<0.0061		ug/L	
			Perfluorobutane Sulfonate (PFBS)	2016/12/02	<0.0019		ug/L	
			Perfluorobutanoic acid	2016/12/02	<0.0066		ug/L	
			Perfluorodecane Sulfonate	2016/12/02	<0.0043		ug/L	
			Perfluoroheptane sulfonate	2016/12/02	<0.0036		ug/L	
			Perfluoroheptanoic Acid (PFHpA)	2016/12/02	<0.0047		ug/L	
			Perfluorohexane Sulfonate (PFHxS)	2016/12/02	<0.0040		ug/L	
			Perfluorohexanoic Acid (PFHxA)	2016/12/02	<0.0046		ug/L	
			Perfluorononanoic Acid (PFNA)	2016/12/02	<0.0046		ug/L	
			Perfluorooctane Sulfonamide (PFOSA)	2016/12/02	<0.0058		ug/L	
			Perfluoropentanoic Acid (PFPeA)	2016/12/02	<0.0036		ug/L	
			Perfluorotetradecanoic Acid	2016/12/02	<0.0052		ug/L	
			Perfluorotridecanoic Acid	2016/12/02	<0.0032		ug/L	
			Perfluoroundecanoic Acid (PFUnA)	2016/12/02	<0.0037		ug/L	
			Perfluorodecanoic Acid (PFDA)	2016/12/02	<0.0066		ug/L	
			Perfluorododecanoic Acid (PFDoA)	2016/12/02	<0.0057		ug/L	
			Perfluoro-n-Octanoic Acid (PFOA)	2016/12/02	<0.0053		ug/L	
			Perfluorooctane Sulfonate (PFOS)	2016/12/02	<0.0033		ug/L	
4776321	CM5	Matrix Spike	Perfluorooctane Sulfonate (PFOS)	2016/12/05		NC	%	70 - 130
4776321	CM5	Matrix Spike DUP	Perfluorooctane Sulfonate (PFOS)	2016/12/05		NC	%	70 - 130
4776321	CM5	MS/MSD RPD	Perfluorooctane Sulfonate (PFOS)	2016/12/05	NC		%	30
4776321	CM5	Spiked Blank	13C4-Perfluorooctanesulfonate	2016/12/05		90	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2016/12/05		114	%	70 - 130

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4776321	CM5	Method Blank	13C4-Perfluorooctanesulfonate	2016/12/05		82	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2016/12/05	<0.0033		ug/L	

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.

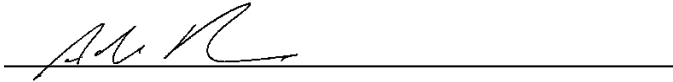
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

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

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

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.



Maxxam Analytics International Corporation o/a Maxxam Analytics
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04-Nov-16 14:13

Melissa DiGrazia



B600288

Page 1 of 1

ly: *

Bottle Order #:



558437

INVOICE TO:
 Company Name: #29803 Cape Cod Commission
 Attention: Scott Michaud
 Address: 3225 Main Street
 Barnstable MA 02630
 Tel: (508) 362-3828 x1234 Fax:
 Email: smichaud@capecodcommission.org

REPORT TO:
 Company Name:
 Attention: Tom Cambaleri
 Address: Same
 Tel:
 Fax:

PROJECT INFORMATION:
 Quotation #:
 P.O. #:
 Project: PFC
 Project Name:
 Site #:
 Sampled By:

J_L ENV-626

COC #:



C#558437-07-01

Project Manager:

Melissa DiGrazia

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
 Please provide advance notice for rush projects

Regulation 153 (2011) <input type="checkbox"/> Table 1 <input type="checkbox"/> Res/Park <input type="checkbox"/> Medium/Fine <input type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC <input type="checkbox"/> Table		Other Regulations <input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Reg 558 <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> MISA <input type="checkbox"/> Municipality <input type="checkbox"/> PWQO <input type="checkbox"/> Other		Special Instructions
Include Criteria on Certificate of Analysis (Y/N)?				

Field Filtered (please circle):
Metals / Hg / Cr VI

PFAS

Regular (Standard) TAT:

(will be applied if Rush TAT is not specified)
 Standard TAT = 5-7 Working days for most tests.

Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)

Date Required: _____ Time Required: _____

Rush Confirmation Number: _____ (call lab for #)

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	PFAS																															
1	INFLUENT PRW-4	11/3/16	14:20	gw	✓																																
2	MID. POINT			h ₂ O	✓																																
3	EFFLUENT			h ₂ O	✓																																
4																																					
5																																					
6																																					
7																																					
8																																					
9																																					
10																																					

* RELINQUISHED BY: (Signature/Print) 	Date: (YY/MM/DD) 11/3/16	Time 15:30	RECEIVED BY: (Signature/Print) Raj R AJMEET KAOR	Date: (YY/MM/DD) 2016/11/04	Time 14:13	# jars used and not submitted	Laboratory Use Only		
							Time Sensitive	Temperature (°C) on Receipt 31.2/2	Custody Seal Present <input checked="" type="checkbox"/>
							Intact - <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	White: Maxxam Yellow: Client

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS. SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM.

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #29803 Cape Cod Commission	Company Name: <u>Tom Campbell</u>	Quotation #:	Maxxam Job #:	Bottle Order #:	Barcode: 558437		
Attention: Scott Michaud	Attention: <u>same</u>	P.O. #:	COC #:	Project Manager:	Barcode: C#558437-09-01		
Address: 3225 Main Street	Address: <u>same</u>	Project: PFC	Project Name: <u>BFTA</u>		Melissa DiGrazia		
Barnstable MA 02630		Project Name:	Site #: <u>Scott Michaud</u>				
Tel: (508) 362-3828 x1234	Tel:	Site #:	Sampled By:				
Fax:	Fax:	Sampled By:					
Email: smichaud@capecodcommission.org	Email:						

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY						Field Filtered (please circle): Metals / Hg / Cr / V	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required: Please provide advance notice for rush projects	
Regulation 153 (2011)		Other Regulations		Special Instructions													Regular (Standard) TAT: (will be applied if Rush TAT is not specified)	
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw													Standard TAT = 5-7 Working days for most tests. Please note - Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw												Job Specific Rush TAT (if applies to entire submission)		
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____												Date Required _____ Time Required _____		
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWDO													Rush Confirmation Number _____ (call lab for #)		
Include Criteria on Certificate of Analysis (Y/N)?																		
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix												# of Bottles	Comments	
1	PRW-4 INFLUENT	11/17/16	0900	gw	✓											1		
2	MIDPOINT	↓	↓	h2o	✓											1		
3	EFFLUENT	↓	↓	h2o	✓											1		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

18-Nov-16 13:34
Melissa DiGrazia
B6P2160
RK6 ENV-1113

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
<u>Scott Michaud</u>	11/17/16	1030	<u>Tamir Bay Tamir Env 47</u>	11/18	13:34		Time Sensitive	Temperature (°C) on Receipt	Custody Seal	Yes	No
								3.3/23/33	Present	✓	
									Intact	✓	

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS. SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM. White: Maxxam Yellow: Client