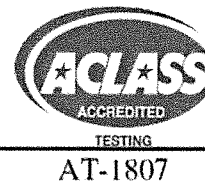




Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)



Laboratory Report

for

Horsham Water & Sewer Authority
617 Horsham Road
Horsham, PA 19044
Attention: Tina M. O'Rourke
Fax: (215) 672-8065

Date of Issue

09/12/2014

EUROFINS EATON
ANALYTICAL

TDF: Thomas.D.French

Project Manager

Report: 496785
Project: UCMR3
Group: PA1460033/Horsham
W&SA GW

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.

* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

* Test results relate only to the sample(s) tested.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Alaska	CA00006	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA00006-2014-1
California-Monrovia-ELAP	2813	New Hampshire *	2959
California-Colton- ELAP	2812	New Jersey *	CA 008
California-Folsom- ELAP	2820	New Mexico	Certified
Colorado	Certified	New York *	11320
Connecticut	PH-0107	North Carolina	06701
Delaware	CA 006	North Dakota	R-009
Florida *	E871024	Oregon (Primary AB) *	ORELAP 4034
Georgia	947	Pennsylvania *	68-565
Guam	14-003r	Rhode Island	LAO00326
Hawaii	Certified	South Carolina	87016
Idaho	Certified	South Dakota	Certified
Illinois *	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas *	T104704230-14-6
Kansas *	E-10268	Utah *	CA000062014-7
Kentucky	90107	Vermont	VT0114
Louisiana *	LA140009	Virginia *	460260
Maine	CA0006	Washington	C838
Maryland	224	West Virginia	9943 C
Commonwealth of Northern Marianas Is.	MP0004	Wisconsin	998316660
Massachusetts	M-CA006	Wyoming	8TMS-L
Michigan	9906	EPA Region 5	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine - Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli (MTF/EC+MUG)		x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DCBP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-S ⁻ D			x
Sulfite	SM 4500-SO ³ B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 <http://www.EatonAnalytical.com>

Version 002. Issued: 06/03/2014

Acknowledgement of Samples Received

Addr: **Horsham Water & Sewer Authority**
 617 Horsham Road
 Horsham, PA 19044

Client ID: HORSHAM-PA
 Folder #: 496785
 Project: UCMR3
 Sample Group: PA1460033/Horsham W&SA GW

Attn: Tina M. O'Rourke
 Phone: (215) 672-8011

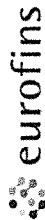
Project Manager: Thomas.D.French
 Phone: (480) 778-1558

The following samples were received from you on **August 30, 2014 at 11:30**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
<u>201408300374</u>	Well # 21 Static ID: EP @UCMR3 537	08/28/2014 0945
<u>201408300376</u>	Well # 17 Static ID: EP @UCMR3 537	08/28/2014 1010
<u>201408300378</u>	Well # 10 Static ID: EP @UCMR3 537	08/28/2014 1100

Test Description

@UCMR3 537 -- UCMR3 537



Eaton Analytical

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CHAIN OF CUSTODY RECORD

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____ **SAMPLES CHECKED AGAINST COC BY:** JS
SAMPLES LOGGED IN BY: JS **SAMPLES REC'D DAY OF COLLECTION?** (check for yes)

SAMPLE TEMP RECEIVED AT: _____ °C (Compliance: 4 ± 2 °C)
 Colton / No. California / Arizona
 Monrovia 4.6 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen Partially Frozen _____ Thawed _____ Wet Ice _____ No Ice _____

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

496785

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME:			PROJECT CODE:				COMPLIANCE SAMPLES			NON-COMPLIANCE SAMPLES		
AQUA PENNSYLVANIA			HORSHAM NON-COMPLIANCE				- Requires state forms			REGULATION INVOLVED:		
EEA CLIENT CODE:			SAMPLE GROUP:				Type of samples (circle one):			CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,....)		
HORSHAM-PA			COC ID:				ROUTINE			SPECIAL		
TAT requested: rush by adv notice only			STD _____ 1 wk _____ 3 day _____ 2 day _____ 1 day _____				SEE ATTACHED BOTTLE ORDER FOR ANALYSES					
							list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)					
SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX	FIELD DATA	FIELD DATA	COMMENTS					
8/28/14	0945	WELL #21		GW			EPA 537					
8/28/14	1010	WELL #17		GW			4					
8/28/14	1100	WELL #10		GW			4					

* **MATRIX TYPES:** RSW = Raw Surface Water **CFW** = Chlor(am)inated Finished Water **SEAW** = Sea Water **SO** = Soil **O** = Other - Please Identify
 RGW = Raw Ground Water **FW** = Other Finished Water **WW** = Waste Water **SW** = Storm Water **SL** = Sludge

SAMPLED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	<u>A. Ngai</u>	Brian Pachik	Aqua PA	08/28/2014	0945
RECEIVED BY:	<u>Joe Sanchez</u>	Anthony Nguyen	Aqua PA	08/29/2014	1600
RELINQUISHED BY:			EEA	8/30/14	1130
RECEIVED BY:					



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Laboratory Comments
Report: 496785

Horsham Water & Sewer Authority
Tina M. O'Rourke
617 Horsham Road
Horsham, PA 19044

The Comments Report may be blank if there are no comments for this report.



Eaton Analytical

UCMR Field Blank
Report: 496785

750 Royal Oaks Drive, Suite 100
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Horsham Water & Sewer Authority
Tina M. O'Rourke
617 Horsham Road
Horsham, PA 19044

Samples Received on:
08/30/2014 11:30

The results section will be blank if there are no exceedances of UCMR3 Field Blank criteria. Field Blank Evaluation is required for positive detection in the associated sample for Metals by 200.8, VOCs by 524.3, PFCs by 537, and Hormones by 539 (SS monitoring only). A detection on this report indicates need for re-sample for the associated site and test. Reference: UCMR3 Laboratory Approval Requirements and Information Document V2, May 2012 section 8.1 Field Blanks.

UCMR3 Field Blanks are not required to be analyzed, if the target analytes are not detected in the associated samples. In that event, the Field Blank data are not available (NA) for reporting.

Results Section

Analyzed	Analyte	Sample ID	Result	Units	UCMR Limit
----------	---------	-----------	--------	-------	------------

SUMMARY OF POSITIVE DATA ONLY

<u>Method</u>	<u>Method description</u>	<u>Positive Data Limit = UCMR Limit</u>
@UCMR3 200.8 FB	Metals	Any detection Greater than 1/3
@UCMR3 524.3 TB	Volatiles	MRL
@UCMR3 537 FB	Perfluorinated	Any detection Greater than 1/3
@UCMR3 539 FB	Hormones	MRL



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Laboratory Hits
Report: 496785

Horsham Water & Sewer Authority
Tina M. O'Rourke
617 Horsham Road
Horsham, PA 19044

Samples Received on:
08/30/2014 11:30

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201408300376	<u>Well # 17</u>				
09/06/2014 3:45	Perfluoro octanesulfonic acid - PFOS		0.086		ug/L	0.04
09/06/2014 3:45	Perfluoro-1-hexanesulfonic acid - PFHxS		0.042		ug/L	0.03
09/06/2014 3:45	Perfluorooctanoic acid - PFOA		0.024		ug/L	0.02
	201408300378	<u>Well # 10</u>				
09/06/2014 4:06	Perfluoro octanesulfonic acid - PFOS		0.043		ug/L	0.04
09/06/2014 4:06	Perfluoro-1-hexanesulfonic acid - PFHxS		0.036		ug/L	0.03
09/06/2014 4:06	Perfluorooctanoic acid - PFOA		0.022		ug/L	0.02

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Data
 Report: 496785

Horsham Water & Sewer Authority
 Tina M. O'Rourke
 617 Horsham Road
 Horsham, PA 19044

Samples Received on:
 08/30/2014 11:30

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
Well # 21 (201408300374)				Sampled on 08/28/2014 0945				
Static ID: EP								
EPA 537 - UCMR3 537								
	09/06/2014	3:24 791004	(EPA 537)	Perfluoro octanesulfonic acid - PFOS	ND	ug/L	0.04	1
	09/06/2014	3:24 791004	(EPA 537)	Perfluoro-1-butanesulfonic acid -PFBS	ND	ug/L	0.09	1
	09/06/2014	3:24 791004	(EPA 537)	Perfluoro-1-hexanesulfonic acid - PFHxS	ND	ug/L	0.03	1
	09/06/2014	3:24 791004	(EPA 537)	Perfluoroheptanoic acid - PFHpA	ND	ug/L	0.01	1
	09/06/2014	3:24 791004	(EPA 537)	Perfluoro-n-nonanoic acid -PFNA	ND	ug/L	0.02	1
	09/06/2014	3:24 791004	(EPA 537)	Perfluorooctanoic acid - PFOA	ND	ug/L	0.02	1
	09/06/2014	3:24 791004	(EPA 537)	13C-PFDA - Surr#2	84	%		1
	09/06/2014	3:24 791004	(EPA 537)	13C-PFHxA - Surr#1	78	%		1
	09/06/2014	3:24 791004	(EPA 537)	13C-PFOA- IS#1	115	%		1
	09/06/2014	3:24 791004	(EPA 537)	13C-PFOS- IS#2	114	%		1
Well # 17 (201408300376)				Sampled on 08/28/2014 1010				
Static ID: EP								
EPA 537 - UCMR3 537								
	09/06/2014	3:45 791004	(EPA 537)	Perfluoro octanesulfonic acid - PFOS	0.086	ug/L	0.04	1
	09/06/2014	3:45 791004	(EPA 537)	Perfluoro-1-butanesulfonic acid -PFBS	ND	ug/L	0.09	1
	09/06/2014	3:45 791004	(EPA 537)	Perfluoro-1-hexanesulfonic acid - PFHxS	0.042	ug/L	0.03	1
	09/06/2014	3:45 791004	(EPA 537)	Perfluoroheptanoic acid - PFHpA	ND	ug/L	0.01	1
	09/06/2014	3:45 791004	(EPA 537)	Perfluoro-n-nonanoic acid -PFNA	ND	ug/L	0.02	1
	09/06/2014	3:45 791004	(EPA 537)	Perfluorooctanoic acid - PFOA	0.024	ug/L	0.02	1
	09/06/2014	3:45 791004	(EPA 537)	13C-PFDA - Surr#2	86	%		1
	09/06/2014	3:45 791004	(EPA 537)	13C-PFHxA - Surr#1	82	%		1
	09/06/2014	3:45 791004	(EPA 537)	13C-PFOA- IS#1	125	%		1
	09/06/2014	3:45 791004	(EPA 537)	13C-PFOS- IS#2	119	%		1
Well # 10 (201408300378)				Sampled on 08/28/2014 1100				
Static ID: EP								
EPA 537 - UCMR3 537								
	09/06/2014	4:06 791004	(EPA 537)	Perfluoro octanesulfonic acid - PFOS	0.043	ug/L	0.04	1
	09/06/2014	4:06 791004	(EPA 537)	Perfluoro-1-butanesulfonic acid -PFBS	ND	ug/L	0.09	1
	09/06/2014	4:06 791004	(EPA 537)	Perfluoro-1-hexanesulfonic acid - PFHxS	0.036	ug/L	0.03	1
	09/06/2014	4:06 791004	(EPA 537)	Perfluoroheptanoic acid - PFHpA	ND	ug/L	0.01	1
	09/06/2014	4:06 791004	(EPA 537)	Perfluoro-n-nonanoic acid -PFNA	ND	ug/L	0.02	1
	09/06/2014	4:06 791004	(EPA 537)	Perfluorooctanoic acid - PFOA	0.022	ug/L	0.02	1
	09/06/2014	4:06 791004	(EPA 537)	13C-PFDA - Surr#2	83	%		1

Rounding on totals after summation.
 (c) - indicates calculated results



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Laboratory Data
Report: 496785

Horsham Water & Sewer Authority
Tina M. O'Rourke
617 Horsham Road
Horsham, PA 19044

Samples Received on:
08/30/2014 11:30

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	09/06/2014	4:06 791004	(EPA 537)	13C-PFHxA - Surr#1	80	%		1
	09/06/2014	4:06 791004	(EPA 537)	13C-PFOA- IS#1	122	%		1
	09/06/2014	4:06 791004	(EPA 537)	13C-PFOS- IS#2	115	%		1

Rounding on totals after summation.
(c) - indicates calculated results



Eaton Analytical

Laboratory
QC Summary: 496785

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Horsham Water & Sewer Authority

QC Ref # 791004 - UCMR3 537

Analysis Date: 09/06/2014

201408300374	Well # 21
201408300376	Well # 17
201408300378	Well # 10

Analyzed by: 1CL
Analyzed by: 1CL
Analyzed by: 1CL

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Horsham Water & Sewer Authority

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 791004 - UCMR3 537 by EPA 537						Analysis Date: 09/05/2014			
CCCH	13C-PFDA - Surr#2 (S)			103	%	103	(70-130)		
CCCL	13C-PFDA - Surr#2 (S)			97.3	%	97	(70-130)		
CCCM	13C-PFDA - Surr#2 (S)			96.8	%	97	(70-130)		
MBLK_HI	13C-PFDA - Surr#2 (S)			74.8	%	75	(70-130)		
MRLHI	13C-PFDA - Surr#2 (S)			76.6	%	77	(70-130)		
MS1_201408290812	13C-PFDA - Surr#2 (S)			82.3	%	82	(70-130)		
MSD1_201408290812	13C-PFDA - Surr#2 (S)			79.9	%	80	(70-130)		
QCS	13C-PFDA - Surr#2 (S)			97.4	%	97	(70-130)		
CCCH	13C-PFHxA - Surr#1 (S)			105	%	105	(70-130)		
CCCL	13C-PFHxA - Surr#1 (S)			96.5	%	97	(70-130)		
CCCM	13C-PFHxA - Surr#1 (S)			102	%	103	(70-130)		
MBLK_HI	13C-PFHxA - Surr#1 (S)			76.8	%	77	(70-130)		
MRLHI	13C-PFHxA - Surr#1 (S)			79.1	%	79	(70-130)		
MS1_201408290812	13C-PFHxA - Surr#1 (S)			79.0	%	79	(70-130)		
MSD1_201408290812	13C-PFHxA - Surr#1 (S)			82.4	%	82	(70-130)		
QCS	13C-PFHxA - Surr#1 (S)			97.8	%	98	(70-130)		
CCCH	13C-PFOA- IS#1 (I)			113	%	113	(50-150)		
CCCL	13C-PFOA- IS#1 (I)			104	%	105	(50-150)		
CCCM	13C-PFOA- IS#1 (I)			108	%	109	(50-150)		
MBLK_HI	13C-PFOA- IS#1 (I)			123	%	123	(50-150)		
MRLHI	13C-PFOA- IS#1 (I)			128	%	128	(50-150)		
MS1_201408290812	13C-PFOA- IS#1 (I)			119	%	119	(50-150)		
MSD1_201408290812	13C-PFOA- IS#1 (I)			116	%	116	(50-150)		
QCS	13C-PFOA- IS#1 (I)			107	%	107	(50-150)		
CCCH	13C-PFOS- IS#2 (I)			114	%	114	(50-150)		
CCCL	13C-PFOS- IS#2 (I)			109	%	109	(50-150)		
CCCM	13C-PFOS- IS#2 (I)			112	%	112	(50-150)		
MBLK_HI	13C-PFOS- IS#2 (I)			111	%	111	(50-150)		
MRLHI	13C-PFOS- IS#2 (I)			115	%	115	(50-150)		
MS1_201408290812	13C-PFOS- IS#2 (I)			112	%	112	(50-150)		
MSD1_201408290812	13C-PFOS- IS#2 (I)			112	%	112	(50-150)		
QCS	13C-PFOS- IS#2 (I)			114	%	114	(50-150)		
CCCH	Perfluoro octanesulfonic acid - PFOS		0.13	0.124	ug/L	97	(70-130)		
CCCL	Perfluoro octanesulfonic acid - PFOS		0.032	0.0311	ug/L	97	(50-150)		
CCCM	Perfluoro octanesulfonic acid - PFOS		0.064	0.0622	ug/L	97	(70-130)		
MBLK_HI	Perfluoro octanesulfonic acid - PFOS	0.043		<0.01333	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRLHI	Perfluoro octanesulfonic acid - PFOS		0.04	0.0328	ug/L	82	(50-150)		
MS1_201408290812	Perfluoro octanesulfonic acid - PFOS	ND	0.04	0.0346	ug/L	87	(50-150)		
MSD1_201408290812	Perfluoro octanesulfonic acid - PFOS	ND	0.04	0.0330	ug/L	82	(50-150)	30	4.7
QCS	Perfluoro octanesulfonic acid - PFOS		0.048	0.0431	ug/L	90	(70-130)		
CCCH	Perfluoro-1-butanefulfonic acid -PFBS		0.29	0.285	ug/L	98	(70-130)		
CCCL	Perfluoro-1-butanefulfonic acid -PFBS		0.078	0.0723	ug/L	93	(50-150)		
CCCM	Perfluoro-1-butanefulfonic acid -PFBS		0.15	0.145	ug/L	100	(70-130)		
MBLK_HI	Perfluoro-1-butanefulfonic acid -PFBS	ND		<0.03033	ug/L				
MRLHI	Perfluoro-1-butanefulfonic acid -PFBS		0.09	0.0818	ug/L	91	(50-150)		
MS1_201408290812	Perfluoro-1-butanefulfonic acid -PFBS	ND	0.091	0.0822	ug/L	90	(50-150)		
MSD1_201408290812	Perfluoro-1-butanefulfonic acid -PFBS	ND	0.091	0.0815	ug/L	90	(50-150)	30	0.86
QCS	Perfluoro-1-butanefulfonic acid -PFBS		0.044	0.0442	ug/L	100	(70-130)		
CCCH	Perfluoro-1-hexanesulfonic acid - PFHxS		0.096	0.0934	ug/L	97	(70-130)		
CCCL	Perfluoro-1-hexanesulfonic acid - PFHxS		0.024	0.0222	ug/L	93	(50-150)		
CCCM	Perfluoro-1-hexanesulfonic acid - PFHxS		0.048	0.0444	ug/L	93	(70-130)		
MBLK_HI	Perfluoro-1-hexanesulfonic acid - PFHxS	0.036		<0.0100	ug/L				
MRLHI	Perfluoro-1-hexanesulfonic acid - PFHxS		0.03	0.0248	ug/L	83	(50-150)		
MS1_201408290812	Perfluoro-1-hexanesulfonic acid - PFHxS	ND	0.03	0.0252	ug/L	84	(50-150)		
MSD1_201408290812	Perfluoro-1-hexanesulfonic acid - PFHxS	ND	0.03	0.0249	ug/L	83	(50-150)	30	1.2
QCS	Perfluoro-1-hexanesulfonic acid - PFHxS		0.048	0.0408	ug/L	86	(70-130)		
CCCH	Perfluoroheptanoic acid - PFHpA		0.032	0.0334	ug/L	105	(70-130)		
CCCL	Perfluoroheptanoic acid - PFHpA		0.008	0.00822	ug/L	103	(50-150)		
CCCM	Perfluoroheptanoic acid - PFHpA		0.016	0.0166	ug/L	104	(70-130)		
MBLK_HI	Perfluoroheptanoic acid - PFHpA	ND		<0.00333	ug/L				
MRLHI	Perfluoroheptanoic acid - PFHpA		0.01	0.00869	ug/L	87	(50-150)		
MS1_201408290812	Perfluoroheptanoic acid - PFHpA	ND	0.01	0.00929	ug/L	92	(50-150)		
MSD1_201408290812	Perfluoroheptanoic acid - PFHpA	ND	0.01	0.00918	ug/L	91	(50-150)	30	1.2
QCS	Perfluoroheptanoic acid - PFHpA		0.05	0.0518	ug/L	104	(70-130)		
CCCH	Perfluoro-n-nonanoic acid -PFNA		0.064	0.0636	ug/L	99	(70-130)		
CCCL	Perfluoro-n-nonanoic acid -PFNA		0.016	0.0168	ug/L	105	(50-150)		
CCCM	Perfluoro-n-nonanoic acid -PFNA		0.032	0.0331	ug/L	103	(70-130)		
MBLK_HI	Perfluoro-n-nonanoic acid -PFNA	ND		<0.00666	ug/L				
MRLHI	Perfluoro-n-nonanoic acid -PFNA		0.02	0.0179	ug/L	90	(50-150)		
MS1_201408290812	Perfluoro-n-nonanoic acid -PFNA	ND	0.02	0.0183	ug/L	92	(50-150)		
MSD1_201408290812	Perfluoro-n-nonanoic acid -PFNA	ND	0.02	0.0187	ug/L	94	(50-150)	30	2.2
QCS	Perfluoro-n-nonanoic acid -PFNA		0.05	0.0438	ug/L	88	(70-130)		
CCCH	Perfluorooctanoic acid - PFOA		0.064	0.0659	ug/L	103	(70-130)		
CCCL	Perfluorooctanoic acid - PFOA		0.016	0.0167	ug/L	104	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCM	Perfluorooctanoic acid - PFOA		0.032	0.0328	ug/L	102	(70-130)		
MBLK_HI	Perfluorooctanoic acid - PFOA	0.022		<0.00666	ug/L				
MRLHI	Perfluorooctanoic acid - PFOA		0.02	0.0182	ug/L	91	(50-150)		
MS1_201408290812	Perfluorooctanoic acid - PFOA	ND	0.02	0.0192	ug/L	94	(50-150)		
MSD1_201408290812	Perfluorooctanoic acid - PFOA	ND	0.02	0.0189	ug/L	93	(50-150)	30	1.6
QCS	Perfluorooctanoic acid - PFOA		0.05	0.0486	ug/L	97	(70-130)		

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