eurofins | 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)

ilac-MRA

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
AT-1807

Laboratory Report

for

Aqua Pennsylvania, Inc.
762 Lancaster Avenue
Bryn Mawr, PA 19010-3489
Attention: Chuck Hertz
Fax: (610) 645-1164

Date of Issue
05/25/2016

EUROFINS EATON ANALYTICAL

TDF: Thomas.D.French

Project Manager

NELAP ACCREDITED TNI LABORATORY
ORELAP 4034

Report: 584968
Project: PFC
Group: Horsham GW Quarterly

* 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.
* This report shall not be reproduced except in full, without the written approval of the laboratory.

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STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
----------	--------	**Montana**	Cert 0035
Arizona	AZ0778	**Nebraska**	Certified
Arkansas	Certified	**Nevada**	CA00006-2016
California-Monrovia-ELAP	2813	**New Hampshire** *	2959
California-Colton- ELAP	2812	**New Jersey** *	CA 008
California-Folsom- ELAP	2820	**New Mexico**	Certified
California-Fresno- ELAP	2966	**New York** *	11320
Colorado	Certified	**North Carolina**	06701
Connecticut	PH-0107	**North Dakota**	R-009
Delaware	CA 006	**Oregon (Primary AB)** *	**ORELAP 4034**
Florida *	E871024	**Pennsylvania** *	68-565
Georgia	947	**Rhode Island**	LAO00326
Guam	15-003r	**South Carolina**	87016
Hawaii	Certified	**South Dakota**	Certified
Idaho	Certified	**Tennessee**	TN02839
Illinois *	200033	**Texas** *	T104704230-14-7
Indiana	C-CA-01	**Utah** *	CA000062015-8
Kansas *	E-10268	**Vermont**	VT0114
Kentucky	90107	**Virginia** *	460260
Louisiana *	LA16003	**Washington**	C838
Maine	CA0006	**West Virginia**	9943 C
Maryland	224	----------	----------
Commonwealth of Northern Marianas Is.	MP0004	**Wyoming**	8TMS-L
Massachusetts	M-CA006	**EPA Region 5**	Certified
Michigan	9906	**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/ANAB.
Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ-mental (Drinking Water)	Environ-mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
1,4-Dioxane	EPA 522	x		x
2,3,7,8-TCDD	Modified EPA 1613B	x		x
Acrylamide	In House Method (2440)	x		x
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H		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	x	
Bicarbonate Alkalinity as HCO3	SM 2320B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method (2447)	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
Cryptosporidium	EPA 1622, 1623	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 (2470)	x		x
Diquat and Paraquat	EPA 549.2	x		x
DBP/HAA	SM 6251B	x		x
Dissolved Oxygen	SM 4500-O G		x	x
DOC	SM 5310C	x		x
E. Coli	(MTF/EC+MUG)	x		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/DBCP and DBP	EPA 551.1	x		x
EDTA and NTA	In House Method (2454)	x		x
Endothall	EPA 548.1	x		x
Endothall	In-house Method (2445)	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
Giardia	EPA 1623	x		x
Glyphosate	EPA 547	x		x
Gross Alpha/Beta	EPA 900.0	x	x	x
Gross Alpha Coprecipitation	SM 7110 C	x	x	x
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method (2439)	x		x
Heterotrophic Bacteria	SM 9215 B	x		x
Hexavalent Chromium	EPA 218.6	x	x	x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ-mental (Drinking Water)	Environ-mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
Hexavalent Chromium	EPA 218.7	x		x
Hexavalent Chromium	SM 3500-Cr B		x	
Hormones	EPA 539	x		x
Hydroxide as OH Calc.	SM 2330B	x		x
Kjeldahl Nitrogen	EPA 351.2		x	
Legionella	CDC Legionella	x		x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA (2360)	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	x
Ortho Phosphate	SM 4500P E			x
Ortho Phosphorous	SM 4500P E	x		
Oxyhalides Disinfection Byproducts	EPA 317.0	x		x
Perchlorate	EPA 331.0	x		x
Perchlorate (low and high)	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, based on EPA 532 (2448)	x		x
Pseudomonas	IDEXX Pseudalert (2461)	x		x
Radium-226	GA Institute of Tech	x		x
Radium-228	GA Institute of Tech	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
Silica	SM 4500-Si D	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 (P/A)	SM 9221 A, B	x		x
Total Coliform (Enumeration)	SM 9221 A, B, C	x		x
Total Coliform / E. coli	Colisure (2346)	x		x
Total Coliform	SM 9221B		x	
Total Coliform with Chlorine Present	SM 9221B		x	
Total Coliform / E.coli (P/A and Enumeration)	SM 9223	x		x
TOC	SM 5310C	x	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 E		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
VOC	EPA SW 846 8260	x		x
VOC	In House Method (2411)	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 001 Issued: 09/04/2015

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Acknowledgement of Samples Received

Addr: **Aqua Pennsylvania, Inc.**
762 Lancaster Avenue
Bryn Mawr, PA 19010-3489

Client ID: PHILLYSUB
Folder #: 584968
Project: PFC
Sample Group: Horsham GW Quarterly

Attn: Chuck Hertz
Phone: (610) 645-1145

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

The following samples were received from you on **May 12, 2016** at **12:36**. 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
201604130067	Horsham Well #1 Raw	05/10/2016 1115
	@537	
201604130068	Horsham Well #2 Raw	05/10/2016 1100
	@537	
201604130069	Horsham Well #3 Raw	05/10/2016 0830
	@537	
201604130070	Horsham Well #4 Raw	05/10/2016 0910
	@537	
201604130071	Horsham Well #7 Raw	05/10/2016 0850
	@537	
201604130072	Horsham Well #9 Raw	05/10/2016 1000
	@537	
201604130073	Horsham Well #10 Raw	05/10/2016 1130
	@537	
201604130074	Horsham Well #17 Raw	05/10/2016 0945
	@537	
201604130075	Horsham Well #19 Raw	05/10/2016 0720
	@537	
201604130076	Horsham Well #20 Raw	05/10/2016 1040
	@537	
201604130077	Horsham Well #21 Raw	05/10/2016 0925
	@537	
201604130078	Horsham Well #22 Raw	05/10/2016 1020
	@537	

Test Description

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Acknowledgement of Samples Received

Addr: **Aqua Pennsylvania, Inc.**
762 Lancaster Avenue
Bryn Mawr, PA 19010-3489

Client ID: PHILLYSUB
Folder #: 584968
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The following samples were received from you on **May 12, 2016** at **12:36**. 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
	@537 -- Perfluorinated Alkyl Acids	

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 www.EurofinsUS.com/Eaton

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CHAIN OF CUSTODY RECORD

584968

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: CD

SAMPLES LOGGED IN BY: SM

SAMPLES REC'D DAY OF COLLECTION? [ ] (check for yes)

SAMPLE TEMP RECEIVED AT:
[ ] Colton / No. California / Arizona ____ °C (Compliance: 4 ± 2 °C)
[X] Monrovia 1.7 °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: _____

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Aqua Pennsylvania, Inc.

PROJECT CODE:

COMPLIANCE SAMPLES [ ] (check for yes) - Requires state forms [ ]

NON-COMPLIANCE SAMPLES [x] (check for yes)
REGULATION INVOLVED: _____

Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,...)

EEA CLIENT CODE:

COC ID:

SAMPLE GROUP: Aqua pennsylvania,Inc.

SEE ATTACHED BOTTLE ORDER FOR ANALYSES [ ] (check for yes), *OR*
list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

TAT requested: rush by adv notice only STD _X_ 1 wk ___ 3 day ___ 2 day ___ 1 day

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	EPA 537													SAMPLER COMMENTS
5/10/16	1115	Horsham Well #1 Raw		RW			X													
5/10/16	1100	Horsham Well #2 raw		RW			X													
5/10/16	0830	Horsham Well #3 Raw		RW			X													
5/10/16	0910	Horsham Well #4 Raw		RW			X													
5/10/16	0850	Horsham Well #7 Raw		RW			X													
5/10/16	1000	Horsham Well #9 Raw		RW			X													
5/10/16	1130	Horsham Well #10 Raw		RW			X													Not for UCMR3
5/10/16	0945	Horsham Well #17 Raw		RW			X													
5/10/16	0720	Horsham Well #19 Raw		RW			X													
5/10/16	1040	Horsham Well #20 Raw		RW			X													

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

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:		DC	Aqua Pennsylvania,Inc.	5/10/2016	
RELINQUISHED BY:		DC	Aqua Pennsylvania,Inc.	5/10/2016	1500
RECEIVED BY:		Michael Senft	Aqua Pennsylvania,Inc.	5/11/2016	0730
RELINQUISHED BY:		Michael Senft	Aqua Pennsylvania,Inc.	5/11/2016	1630
RECEIVED BY:	MAN	MAN	EEA Mon	5-12-16	12:36

PAGE ____ OF ____

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Eaton Analytical

CHAIN OF CUSTODY RECORD

584968

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: CO

SAMPLES LOGGED IN BY: SM

SAMPLES REC'D DAY OF COLLECTION? [ ] (check for yes)

SAMPLE TEMP RECEIVED AT:

[ ] Colton / No. California / Arizona _____ °C (Compliance: 4 ± 2 °C)

[x] Monrovia 1.7 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen 1.7 Partially Frozen ✓ Thawed _____ Wet Ice _____ No Ice _____

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

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Aqua Pennsylvania, Inc.

PROJECT CODE:

COMPLIANCE SAMPLES [ ] (check for yes)

- Requires state forms [ ]

NON-COMPLIANCE SAMPLES [x] (check for yes)

REGULATION INVOLVED: _____

Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,...)

EEA CLIENT CODE:

COC ID:

SAMPLE GROUP: Aqua pennsylvania,Inc.

SEE ATTACHED BOTTLE ORDER FOR ANALYSES [ ] (check for yes), *OR*

list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

~~TAT requested: rush by adv notice only~~ STD X 1 wk ___ 3 day ___ 2 day ___ 1 day ___

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	EPA 537	SAMPLER COMMENTS
5/10/16	0925	Horsham Well #21 Raw		RW			X	
5/10/16	1020	Horsham Well #22 raw		RW			X	
								Not for UCMR3

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

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:		DC	Aqua Pennsylvania,Inc.	5/10/2016	
RELINQUISHED BY:		DC	Aqua Pennsylvania,Inc.	5/10/2016	1500
RECEIVED BY:		Michael Senft	Aqua Pennsylvania,Inc.	5/11/2016	0730
RELINQUISHED BY:		Michael Senft	Aqua Pennsylvania,Inc.	5/11/2016	1630
RECEIVED BY:	MAC	MAC	EEA	5-12-16	12:56

PAGE ____ OF ____

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INTERNAL CHAIN OF CUSTODY RECORD

COMPANY NAME / EEA CLIENT CODE:	PROJECT CODE:

SAMPLE TEMP RECEIVED: SAMPLES REC'D DAY OF COLLECTION? ☐

IR Gun ID = 518A (Observation= 2.2 °C) (Corr.Factor -.5 °C) (Final = 1.7 °C)

TYPE OF ICE: Real ✓ Synthetic ____ No Ice ____ CONDITION OF ICE: Frozen ____ Partially Frozen ✓ Thawed ____ N/A ____

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

Compliance Acceptance Criteria:

1) Chemistry: >0, ≤6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)

2) Microbiology, Distribution: < 10°C, not frozen (can be ≥10°C if received on ice the same day as sample collection, within 8 hours)

3) Microbiology, Surface Water: < 10°C (if received after 2 hours of sample collection)

If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants

1 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)	2 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)
3 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)	4 = (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)

4) UCMR3 : (non-GLEC) 524.3: (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)

522: (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)

≤ 10°C if received within 48 hours of sample collection (not the same business day); ≤ 6°C if received after 48 hours of sample collection. Measure temperature for each method above.

5) LT2: Giardia /Cryptosporidium: <20 °C, not frozen (received after 8 hours of sample collection)

E. Coli: < 10°C, not frozen (if received after 2 hours of sample collection)

Giardia/Crypto: (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)

E.Coli: (Observation= ____ °C) (Corr.Factor ____ °C) (Final = ____ °C)

6) Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)

Note: If samples are out of temperature range, let the ASMs know. ASMs will determine whether to proceed with analysis or not.

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:	MAN	MAN	Eurofins Eaton Analytical	5-12-16	12:36

ORIGIN ID:WAYA (610) 645-1176
MICHAEL SENFT
AQUA
762 WEST LANCASTER AVENUE

BRYN MAWR, PA 19010
UNITED STATES US

SHIP DATE: 11MAY16
ACTWGT: 20.00 LB
CAD: 100061330/INET3730
DIMS: 24x13x14 IN

BILL RECIPIENT

TO LOGIN
MWH AMERICAS,INC,
750 ROYAL OAKS DRIVE
SUITE 100
MONROVIA CA 91016
(626) 386-1100 REF: UCMR3
INV 15-3031
PO. DEPT: 15-3031

5J0J16323/27/F

FedEx. Express

THU - 12 MAY 3:00P
STANDARD OVERNIGHT

TRK# 0201 7763 1689 1361

NH WHPA

91016
CA-US BUR

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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Laboratory Comments
Report: 584968

Aqua Pennsylvania, Inc.
Chuck Hertz
762 Lancaster Avenue
Bryn Mawr, PA 19010-3489

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

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750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
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1 800 566 LABS (1 800 566 5227)

Laboratory Hits
Report: 584968

Aqua Pennsylvania, Inc.
Chuck Hertz
762 Lancaster Avenue
Bryn Mawr, PA 19010-3489

Samples Received on:
05/12/2016 12:36

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201604130067	**Horsham Well #1 Raw**				
05/21/2016 2:44	Perfluorobutanesulfonic acid		0.0041		ug/L	0.003
05/21/2016 2:44	Perfluoroheptanoic acid		0.0026		ug/L	0.003
05/21/2016 2:44	Perfluorohexanesulfonic acid		0.0064		ug/L	0.003
05/21/2016 2:44	Perfluorohexanoic acid		0.0044		ug/L	0.003
05/21/2016 2:44	Perfluorooctanesulfonic acid		0.0068		ug/L	0.003
05/21/2016 2:44	Perfluorooctanoic acid		0.0075		ug/L	0.003
	201604130068	**Horsham Well #2 Raw**				
05/23/2016 17:10	Perfluorobutanesulfonic acid		0.0030		ug/L	0.0025
05/23/2016 17:10	Perfluoroheptanoic acid		0.0032		ug/L	0.0025
05/23/2016 17:10	Perfluorohexanesulfonic acid		0.0077		ug/L	0.0025
05/23/2016 17:10	Perfluorohexanoic acid		0.0046		ug/L	0.0025
05/23/2016 17:10	Perfluorooctanesulfonic acid		0.018		ug/L	0.0025
05/23/2016 17:10	Perfluorooctanoic acid		0.010		ug/L	0.0025
	201604130069	**Horsham Well #3 Raw**				
05/23/2016 17:31	Perfluorohexanoic acid		0.0026		ug/L	0.0025
05/23/2016 17:31	Perfluorooctanesulfonic acid		0.0070		ug/L	0.0025
05/23/2016 17:31	Perfluorooctanoic acid		0.0061		ug/L	0.0025
	201604130070	**Horsham Well #4 Raw**				
05/23/2016 17:51	Perfluorohexanesulfonic acid		0.0041		ug/L	0.0025
05/23/2016 17:51	Perfluorohexanoic acid		0.0036		ug/L	0.0025
05/23/2016 17:51	Perfluorooctanesulfonic acid		0.010		ug/L	0.0025
05/23/2016 17:51	Perfluorooctanoic acid		0.0063		ug/L	0.0025
	201604130071	**Horsham Well #7 Raw**				
05/23/2016 18:12	Perfluorooctanoic acid		0.0031		ug/L	0.0025
	201604130072	**Horsham Well #9 Raw**				
05/23/2016 18:33	Perfluorohexanesulfonic acid		0.0038		ug/L	0.0025
05/23/2016 18:33	Perfluorooctanesulfonic acid		0.0051		ug/L	0.0025
05/23/2016 18:33	Perfluorooctanoic acid		0.0045		ug/L	0.0025
	201604130073	**Horsham Well #10 Raw**				
05/23/2016 18:53	Perfluorobutanesulfonic acid		0.0060		ug/L	0.0025
05/23/2016 18:53	Perfluoroheptanoic acid		0.0034		ug/L	0.0025
05/23/2016 18:53	Perfluorohexanesulfonic acid		0.023		ug/L	0.0025
05/23/2016 18:53	Perfluorohexanoic acid		0.0069		ug/L	0.0025

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Laboratory Hits
Report: 584968

Aqua Pennsylvania, Inc.
Chuck Hertz
762 Lancaster Avenue
Bryn Mawr, PA 19010-3489

Samples Received on:
05/12/2016 12:36

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
05/23/2016 18:53	Perfluorooctanesulfonic acid		0.030		ug/L	0.0025
05/23/2016 18:53	Perfluorooctanoic acid		0.015		ug/L	0.0025
	201604130074	**Horsham Well #17 Raw**				
05/21/2016 3:04	Perfluorobutanesulfonic acid		0.0063		ug/L	0.003
05/21/2016 3:04	Perfluoroheptanoic acid		0.0063		ug/L	0.003
05/21/2016 3:04	Perfluorohexanesulfonic acid		0.036		ug/L	0.003
05/21/2016 3:04	Perfluorohexanoic acid		0.013		ug/L	0.003
05/21/2016 3:04	Perfluorooctanesulfonic acid		0.071		ug/L	0.003
05/21/2016 3:04	Perfluorooctanoic acid		0.020		ug/L	0.003
	201604130075	**Horsham Well #19 Raw**				
05/21/2016 3:25	Perfluoroheptanoic acid		0.0038		ug/L	0.003
05/21/2016 3:25	Perfluorohexanesulfonic acid		0.0036		ug/L	0.003
05/21/2016 3:25	Perfluorohexanoic acid		0.0059		ug/L	0.003
05/21/2016 3:25	Perfluorooctanesulfonic acid		0.0078		ug/L	0.003
05/21/2016 3:25	Perfluorooctanoic acid		0.0063		ug/L	0.003
	201604130076	**Horsham Well #20 Raw**				
05/21/2016 3:46	Perfluorobutanesulfonic acid		0.0043		ug/L	0.003
05/21/2016 3:46	Perfluoroheptanoic acid		0.0031		ug/L	0.003
05/21/2016 3:46	Perfluorohexanesulfonic acid		0.0066		ug/L	0.003
05/21/2016 3:46	Perfluorohexanoic acid		0.0044		ug/L	0.003
05/21/2016 3:46	Perfluorooctanesulfonic acid		0.011		ug/L	0.003
05/21/2016 3:46	Perfluorooctanoic acid		0.0090		ug/L	0.003
	201604130077	**Horsham Well #21 Raw**				
05/21/2016 4:06	Perfluorobutanesulfonic acid		0.0052		ug/L	0.003
05/21/2016 4:06	Perfluoroheptanoic acid		0.0029		ug/L	0.003
05/21/2016 4:06	Perfluorohexanesulfonic acid		0.0036		ug/L	0.003
05/21/2016 4:06	Perfluorohexanoic acid		0.0042		ug/L	0.003
05/21/2016 4:06	Perfluorooctanesulfonic acid		0.0089		ug/L	0.003
05/21/2016 4:06	Perfluorooctanoic acid		0.0084		ug/L	0.003
	201604130078	**Horsham Well #22 Raw**				
05/21/2016 4:27	Perfluorobutanesulfonic acid		0.0043		ug/L	0.003
05/21/2016 4:27	Perfluoroheptanoic acid		0.0048		ug/L	0.003
05/21/2016 4:27	Perfluorohexanesulfonic acid		0.0042		ug/L	0.003
05/21/2016 4:27	Perfluorohexanoic acid		0.0067		ug/L	0.003
05/21/2016 4:27	Perfluorooctanesulfonic acid		0.010		ug/L	0.003

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Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
05/21/2016 4:27	Perfluorooctanoic acid		0.0094		ug/L	0.003

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05/12/2016 12:36

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
Horsham Well #1 Raw (201604130067)							**Sampled on 05/10/2016 1115**		
			EPA 537 - Perfluorinated Alkyl Acids						
5/19/2016	05/21/2016	2:44	911819	(EPA 537)	Perfluorobutanesulfonic acid	0.0041	ug/L	0.003	1
5/19/2016	05/21/2016	2:44	911819	(EPA 537)	Perfluorodecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	2:44	911819	(EPA 537)	Perfluorododecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	2:44	911819	(EPA 537)	Perfluoroheptanoic acid	0.0026	ug/L	0.003	1
5/19/2016	05/21/2016	2:44	911819	(EPA 537)	Perfluorohexanesulfonic acid	0.0064	ug/L	0.003	1
5/19/2016	05/21/2016	2:44	911819	(EPA 537)	Perfluorohexanoic acid	0.0044	ug/L	0.003	1
5/19/2016	05/21/2016	2:44	911819	(EPA 537)	Perfluorononanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	2:44	911819	(EPA 537)	Perfluorooctanesulfonic acid	0.0068	ug/L	0.003	1
5/19/2016	05/21/2016	2:44	911819	(EPA 537)	Perfluorooctanoic acid	0.0075	ug/L	0.003	1
5/19/2016	05/21/2016	2:44	911819	(EPA 537)	Perfluorotetradecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	2:44	911819	(EPA 537)	Perfluorotridecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	2:44	911819	(EPA 537)	Perfluoroundecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	2:44	911819	(EPA 537)	13C-PFDA	96	%		1
5/19/2016	05/21/2016	2:44	911819	(EPA 537)	13C-PFHxA	105	%		1
5/19/2016	05/21/2016	2:44	911819	(EPA 537)	13C-PFOA	104	%		1
5/19/2016	05/21/2016	2:44	911819	(EPA 537)	13C-PFOS	104	%		1
Horsham Well #2 Raw (201604130068)							**Sampled on 05/10/2016 1100**		
			EPA 537 - Perfluorinated Alkyl Acids						
5/18/2016	05/23/2016	17:10	912598	(EPA 537)	Perfluorobutanesulfonic acid	0.0030	ug/L	0.0025	1
5/18/2016	05/23/2016	17:10	912598	(EPA 537)	Perfluorodecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	17:10	912598	(EPA 537)	Perfluorododecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	17:10	912598	(EPA 537)	Perfluoroheptanoic acid	0.0032	ug/L	0.0025	1
5/18/2016	05/23/2016	17:10	912598	(EPA 537)	Perfluorohexanesulfonic acid	0.0077	ug/L	0.0025	1
5/18/2016	05/23/2016	17:10	912598	(EPA 537)	Perfluorohexanoic acid	0.0046	ug/L	0.0025	1
5/18/2016	05/23/2016	17:10	912598	(EPA 537)	Perfluorononanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	17:10	912598	(EPA 537)	Perfluorooctanesulfonic acid	0.018	ug/L	0.0025	1
5/18/2016	05/23/2016	17:10	912598	(EPA 537)	Perfluorooctanoic acid	0.010	ug/L	0.0025	1
5/18/2016	05/23/2016	17:10	912598	(EPA 537)	Perfluorotetradecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	17:10	912598	(EPA 537)	Perfluorotridecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	17:10	912598	(EPA 537)	Perfluoroundecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	17:10	912598	(EPA 537)	13C-PFDA	94	%		1
5/18/2016	05/23/2016	17:10	912598	(EPA 537)	13C-PFHxA	103	%		1
5/18/2016	05/23/2016	17:10	912598	(EPA 537)	13C-PFOA	105	%		1

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Samples Received on:
05/12/2016 12:36

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
5/18/2016	05/23/2016	17:10	912598	(EPA 537)	13C-PFOS	106	%		1
Horsham Well #3 Raw (201604130069)							**Sampled on 05/10/2016 0830**		
		EPA 537 - Perfluorinated Alkyl Acids							
5/18/2016	05/23/2016	17:31	912598	(EPA 537)	Perfluorobutanesulfonic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	17:31	912598	(EPA 537)	Perfluorodecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	17:31	912598	(EPA 537)	Perfluorododecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	17:31	912598	(EPA 537)	Perfluoroheptanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	17:31	912598	(EPA 537)	Perfluorohexanesulfonic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	17:31	912598	(EPA 537)	Perfluorohexanoic acid	0.0026	ug/L	0.0025	1
5/18/2016	05/23/2016	17:31	912598	(EPA 537)	Perfluorononanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	17:31	912598	(EPA 537)	Perfluorooctanesulfonic acid	0.0070	ug/L	0.0025	1
5/18/2016	05/23/2016	17:31	912598	(EPA 537)	Perfluorooctanoic acid	0.0061	ug/L	0.0025	1
5/18/2016	05/23/2016	17:31	912598	(EPA 537)	Perfluorotetradecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	17:31	912598	(EPA 537)	Perfluorotridecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	17:31	912598	(EPA 537)	Perfluoroundecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	17:31	912598	(EPA 537)	13C-PFDA	92	%		1
5/18/2016	05/23/2016	17:31	912598	(EPA 537)	13C-PFHxA	99	%		1
5/18/2016	05/23/2016	17:31	912598	(EPA 537)	13C-PFOA	109	%		1
5/18/2016	05/23/2016	17:31	912598	(EPA 537)	13C-PFOS	105	%		1
Horsham Well #4 Raw (201604130070)							**Sampled on 05/10/2016 0910**		
		EPA 537 - Perfluorinated Alkyl Acids							
5/18/2016	05/23/2016	17:51	912598	(EPA 537)	Perfluorobutanesulfonic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	17:51	912598	(EPA 537)	Perfluorodecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	17:51	912598	(EPA 537)	Perfluorododecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	17:51	912598	(EPA 537)	Perfluoroheptanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	17:51	912598	(EPA 537)	Perfluorohexanesulfonic acid	0.0041	ug/L	0.0025	1
5/18/2016	05/23/2016	17:51	912598	(EPA 537)	Perfluorohexanoic acid	0.0036	ug/L	0.0025	1
5/18/2016	05/23/2016	17:51	912598	(EPA 537)	Perfluorononanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	17:51	912598	(EPA 537)	Perfluorooctanesulfonic acid	0.010	ug/L	0.0025	1
5/18/2016	05/23/2016	17:51	912598	(EPA 537)	Perfluorooctanoic acid	0.0063	ug/L	0.0025	1
5/18/2016	05/23/2016	17:51	912598	(EPA 537)	Perfluorotetradecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	17:51	912598	(EPA 537)	Perfluorotridecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	17:51	912598	(EPA 537)	Perfluoroundecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	17:51	912598	(EPA 537)	13C-PFDA	99	%		1
5/18/2016	05/23/2016	17:51	912598	(EPA 537)	13C-PFHxA	104	%		1

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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
5/18/2016	05/23/2016	17:51	912598	(EPA 537)	13C-PFOA	109	%		1
5/18/2016	05/23/2016	17:51	912598	(EPA 537)	13C-PFOS	109	%		1

Horsham Well #7 Raw (201604130071) **Sampled on 05/10/2016 0850**

EPA 537 - Perfluorinated Alkyl Acids

5/18/2016	05/23/2016	18:12	912598	(EPA 537)	Perfluorobutanesulfonic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:12	912598	(EPA 537)	Perfluorodecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:12	912598	(EPA 537)	Perfluorododecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:12	912598	(EPA 537)	Perfluoroheptanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:12	912598	(EPA 537)	Perfluorohexanesulfonic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:12	912598	(EPA 537)	Perfluorohexanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:12	912598	(EPA 537)	Perfluorononanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:12	912598	(EPA 537)	Perfluorooctanesulfonic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:12	912598	(EPA 537)	Perfluorooctanoic acid	0.0031	ug/L	0.0025	1
5/18/2016	05/23/2016	18:12	912598	(EPA 537)	Perfluorotetradecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:12	912598	(EPA 537)	Perfluorotridecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:12	912598	(EPA 537)	Perfluoroundecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:12	912598	(EPA 537)	13C-PFDA	86	%		1
5/18/2016	05/23/2016	18:12	912598	(EPA 537)	13C-PFHxA	98	%		1
5/18/2016	05/23/2016	18:12	912598	(EPA 537)	13C-PFOA	110	%		1
5/18/2016	05/23/2016	18:12	912598	(EPA 537)	13C-PFOS	107	%		1

Horsham Well #9 Raw (201604130072) **Sampled on 05/10/2016 1000**

EPA 537 - Perfluorinated Alkyl Acids

5/18/2016	05/23/2016	18:33	912598	(EPA 537)	Perfluorobutanesulfonic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:33	912598	(EPA 537)	Perfluorodecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:33	912598	(EPA 537)	Perfluorododecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:33	912598	(EPA 537)	Perfluoroheptanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:33	912598	(EPA 537)	Perfluorohexanesulfonic acid	0.0038	ug/L	0.0025	1
5/18/2016	05/23/2016	18:33	912598	(EPA 537)	Perfluorohexanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:33	912598	(EPA 537)	Perfluorononanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:33	912598	(EPA 537)	Perfluorooctanesulfonic acid	0.0051	ug/L	0.0025	1
5/18/2016	05/23/2016	18:33	912598	(EPA 537)	Perfluorooctanoic acid	0.0045	ug/L	0.0025	1
5/18/2016	05/23/2016	18:33	912598	(EPA 537)	Perfluorotetradecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:33	912598	(EPA 537)	Perfluorotridecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:33	912598	(EPA 537)	Perfluoroundecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:33	912598	(EPA 537)	13C-PFDA	95	%		1

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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
5/18/2016	05/23/2016	18:33	912598	(EPA 537)	13C-PFHxA	102	%		1
5/18/2016	05/23/2016	18:33	912598	(EPA 537)	13C-PFOA	107	%		1
5/18/2016	05/23/2016	18:33	912598	(EPA 537)	13C-PFOS	103	%		1

Horsham Well #10 Raw (201604130073) — **Sampled on 05/10/2016 1130**

EPA 537 - Perfluorinated Alkyl Acids

5/18/2016	05/23/2016	18:53	912598	(EPA 537)	Perfluorobutanesulfonic acid	0.0060	ug/L	0.0025	1
5/18/2016	05/23/2016	18:53	912598	(EPA 537)	Perfluorodecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:53	912598	(EPA 537)	Perfluorododecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:53	912598	(EPA 537)	Perfluoroheptanoic acid	0.0034	ug/L	0.0025	1
5/18/2016	05/23/2016	18:53	912598	(EPA 537)	Perfluorohexanesulfonic acid	0.023	ug/L	0.0025	1
5/18/2016	05/23/2016	18:53	912598	(EPA 537)	Perfluorohexanoic acid	0.0069	ug/L	0.0025	1
5/18/2016	05/23/2016	18:53	912598	(EPA 537)	Perfluorononanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:53	912598	(EPA 537)	Perfluorooctanesulfonic acid	0.030	ug/L	0.0025	1
5/18/2016	05/23/2016	18:53	912598	(EPA 537)	Perfluorooctanoic acid	0.015	ug/L	0.0025	1
5/18/2016	05/23/2016	18:53	912598	(EPA 537)	Perfluorotetradecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:53	912598	(EPA 537)	Perfluorotridecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:53	912598	(EPA 537)	Perfluoroundecanoic acid	ND	ug/L	0.0025	1
5/18/2016	05/23/2016	18:53	912598	(EPA 537)	13C-PFDA	97	%		1
5/18/2016	05/23/2016	18:53	912598	(EPA 537)	13C-PFHxA	104	%		1
5/18/2016	05/23/2016	18:53	912598	(EPA 537)	13C-PFOA	109	%		1
5/18/2016	05/23/2016	18:53	912598	(EPA 537)	13C-PFOS	113	%		1

Horsham Well #17 Raw (201604130074) — **Sampled on 05/10/2016 0945**

EPA 537 - Perfluorinated Alkyl Acids

5/19/2016	05/21/2016	3:04	911819	(EPA 537)	Perfluorobutanesulfonic acid	0.0063	ug/L	0.003	1
5/19/2016	05/21/2016	3:04	911819	(EPA 537)	Perfluorodecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	3:04	911819	(EPA 537)	Perfluorododecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	3:04	911819	(EPA 537)	Perfluoroheptanoic acid	0.0063	ug/L	0.003	1
5/19/2016	05/21/2016	3:04	911819	(EPA 537)	Perfluorohexanesulfonic acid	0.036	ug/L	0.003	1
5/19/2016	05/21/2016	3:04	911819	(EPA 537)	Perfluorohexanoic acid	0.013	ug/L	0.003	1
5/19/2016	05/21/2016	3:04	911819	(EPA 537)	Perfluorononanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	3:04	911819	(EPA 537)	Perfluorooctanesulfonic acid	0.071	ug/L	0.003	1
5/19/2016	05/21/2016	3:04	911819	(EPA 537)	Perfluorooctanoic acid	0.020	ug/L	0.003	1
5/19/2016	05/21/2016	3:04	911819	(EPA 537)	Perfluorotetradecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	3:04	911819	(EPA 537)	Perfluorotridecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	3:04	911819	(EPA 537)	Perfluoroundecanoic acid	ND	ug/L	0.003	1

Rounding on totals after summation.
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Laboratory Data
Report: 584968

Aqua Pennsylvania, Inc.
Chuck Hertz
762 Lancaster Avenue
Bryn Mawr, PA 19010-3489

Samples Received on:
05/12/2016 12:36

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
5/19/2016	05/21/2016	3:04	911819	(EPA 537)	13C-PFDA	105	%		1
5/19/2016	05/21/2016	3:04	911819	(EPA 537)	13C-PFHxA	104	%		1
5/19/2016	05/21/2016	3:04	911819	(EPA 537)	13C-PFOA	106	%		1
5/19/2016	05/21/2016	3:04	911819	(EPA 537)	13C-PFOS	109	%		1

Horsham Well #19 Raw (201604130075) **Sampled on 05/10/2016 0720**

EPA 537 - Perfluorinated Alkyl Acids

5/19/2016	05/21/2016	3:25	911819	(EPA 537)	Perfluorobutanesulfonic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	3:25	911819	(EPA 537)	Perfluorodecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	3:25	911819	(EPA 537)	Perfluorododecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	3:25	911819	(EPA 537)	Perfluoroheptanoic acid	0.0038	ug/L	0.003	1
5/19/2016	05/21/2016	3:25	911819	(EPA 537)	Perfluorohexanesulfonic acid	0.0036	ug/L	0.003	1
5/19/2016	05/21/2016	3:25	911819	(EPA 537)	Perfluorohexanoic acid	0.0059	ug/L	0.003	1
5/19/2016	05/21/2016	3:25	911819	(EPA 537)	Perfluorononanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	3:25	911819	(EPA 537)	Perfluorooctanesulfonic acid	0.0078	ug/L	0.003	1
5/19/2016	05/21/2016	3:25	911819	(EPA 537)	Perfluorooctanoic acid	0.0063	ug/L	0.003	1
5/19/2016	05/21/2016	3:25	911819	(EPA 537)	Perfluorotetradecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	3:25	911819	(EPA 537)	Perfluorotridecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	3:25	911819	(EPA 537)	Perfluoroundecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	3:25	911819	(EPA 537)	13C-PFDA	102	%		1
5/19/2016	05/21/2016	3:25	911819	(EPA 537)	13C-PFHxA	101	%		1
5/19/2016	05/21/2016	3:25	911819	(EPA 537)	13C-PFOA	106	%		1
5/19/2016	05/21/2016	3:25	911819	(EPA 537)	13C-PFOS	106	%		1

Horsham Well #20 Raw (201604130076) **Sampled on 05/10/2016 1040**

EPA 537 - Perfluorinated Alkyl Acids

5/19/2016	05/21/2016	3:46	911819	(EPA 537)	Perfluorobutanesulfonic acid	0.0043	ug/L	0.003	1
5/19/2016	05/21/2016	3:46	911819	(EPA 537)	Perfluorodecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	3:46	911819	(EPA 537)	Perfluorododecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	3:46	911819	(EPA 537)	Perfluoroheptanoic acid	0.0031	ug/L	0.003	1
5/19/2016	05/21/2016	3:46	911819	(EPA 537)	Perfluorohexanesulfonic acid	0.0066	ug/L	0.003	1
5/19/2016	05/21/2016	3:46	911819	(EPA 537)	Perfluorohexanoic acid	0.0044	ug/L	0.003	1
5/19/2016	05/21/2016	3:46	911819	(EPA 537)	Perfluorononanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	3:46	911819	(EPA 537)	Perfluorooctanesulfonic acid	0.011	ug/L	0.003	1
5/19/2016	05/21/2016	3:46	911819	(EPA 537)	Perfluorooctanoic acid	0.0090	ug/L	0.003	1
5/19/2016	05/21/2016	3:46	911819	(EPA 537)	Perfluorotetradecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	3:46	911819	(EPA 537)	Perfluorotridecanoic acid	ND	ug/L	0.003	1

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

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Samples Received on:
05/12/2016 12:36

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
5/19/2016	05/21/2016	3:46	911819	(EPA 537)	Perfluoroundecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	3:46	911819	(EPA 537)	13C-PFDA	103	%		1
5/19/2016	05/21/2016	3:46	911819	(EPA 537)	13C-PFHxA	103	%		1
5/19/2016	05/21/2016	3:46	911819	(EPA 537)	13C-PFOA	105	%		1
5/19/2016	05/21/2016	3:46	911819	(EPA 537)	13C-PFOS	107	%		1

Horsham Well #21 Raw (201604130077) — **Sampled on 05/10/2016 0925**

EPA 537 - Perfluorinated Alkyl Acids

5/19/2016	05/21/2016	4:06	911819	(EPA 537)	Perfluorobutanesulfonic acid	0.0052	ug/L	0.003	1
5/19/2016	05/21/2016	4:06	911819	(EPA 537)	Perfluorodecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	4:06	911819	(EPA 537)	Perfluorododecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	4:06	911819	(EPA 537)	Perfluoroheptanoic acid	0.0029	ug/L	0.003	1
5/19/2016	05/21/2016	4:06	911819	(EPA 537)	Perfluorohexanesulfonic acid	0.0036	ug/L	0.003	1
5/19/2016	05/21/2016	4:06	911819	(EPA 537)	Perfluorohexanoic acid	0.0042	ug/L	0.003	1
5/19/2016	05/21/2016	4:06	911819	(EPA 537)	Perfluorononanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	4:06	911819	(EPA 537)	Perfluorooctanesulfonic acid	0.0089	ug/L	0.003	1
5/19/2016	05/21/2016	4:06	911819	(EPA 537)	Perfluorooctanoic acid	0.0084	ug/L	0.003	1
5/19/2016	05/21/2016	4:06	911819	(EPA 537)	Perfluorotetradecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	4:06	911819	(EPA 537)	Perfluorotridecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	4:06	911819	(EPA 537)	Perfluoroundecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	4:06	911819	(EPA 537)	13C-PFDA	102	%		1
5/19/2016	05/21/2016	4:06	911819	(EPA 537)	13C-PFHxA	102	%		1
5/19/2016	05/21/2016	4:06	911819	(EPA 537)	13C-PFOA	106	%		1
5/19/2016	05/21/2016	4:06	911819	(EPA 537)	13C-PFOS	107	%		1

Horsham Well #22 Raw (201604130078) — **Sampled on 05/10/2016 1020**

EPA 537 - Perfluorinated Alkyl Acids

5/19/2016	05/21/2016	4:27	911819	(EPA 537)	Perfluorobutanesulfonic acid	0.0043	ug/L	0.003	1
5/19/2016	05/21/2016	4:27	911819	(EPA 537)	Perfluorodecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	4:27	911819	(EPA 537)	Perfluorododecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	4:27	911819	(EPA 537)	Perfluoroheptanoic acid	0.0048	ug/L	0.003	1
5/19/2016	05/21/2016	4:27	911819	(EPA 537)	Perfluorohexanesulfonic acid	0.0042	ug/L	0.003	1
5/19/2016	05/21/2016	4:27	911819	(EPA 537)	Perfluorohexanoic acid	0.0067	ug/L	0.003	1
5/19/2016	05/21/2016	4:27	911819	(EPA 537)	Perfluorononanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	4:27	911819	(EPA 537)	Perfluorooctanesulfonic acid	0.010	ug/L	0.003	1
5/19/2016	05/21/2016	4:27	911819	(EPA 537)	Perfluorooctanoic acid	0.0094	ug/L	0.003	1
5/19/2016	05/21/2016	4:27	911819	(EPA 537)	Perfluorotetradecanoic acid	ND	ug/L	0.003	1

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

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Report: 584968

Aqua Pennsylvania, Inc.
Chuck Hertz
762 Lancaster Avenue
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Samples Received on:
05/12/2016 12:36

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
5/19/2016	05/21/2016	4:27	911819	(EPA 537)	Perfluorotridecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	4:27	911819	(EPA 537)	Perfluoroundecanoic acid	ND	ug/L	0.003	1
5/19/2016	05/21/2016	4:27	911819	(EPA 537)	13C-PFDA	104	%		1
5/19/2016	05/21/2016	4:27	911819	(EPA 537)	13C-PFHxA	106	%		1
5/19/2016	05/21/2016	4:27	911819	(EPA 537)	13C-PFOA	103	%		1
5/19/2016	05/21/2016	4:27	911819	(EPA 537)	13C-PFOS	104	%		1

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Laboratory
QC Summary: 584968

Aqua Pennsylvania, Inc.

QC Ref # 911819 - Perfluorinated Alkyl Acids — **Analysis Date: 05/21/2016**

201604130067	Horsham Well #1 Raw	Analyzed by: 1CL
201604130074	Horsham Well #17 Raw	Analyzed by: 1CL
201604130075	Horsham Well #19 Raw	Analyzed by: 1CL
201604130076	Horsham Well #20 Raw	Analyzed by: 1CL
201604130077	Horsham Well #21 Raw	Analyzed by: 1CL
201604130078	Horsham Well #22 Raw	Analyzed by: 1CL

QC Ref # 912598 - Perfluorinated Alkyl Acids — **Analysis Date: 05/23/2016**

201604130068	Horsham Well #2 Raw	Analyzed by: 1CL
201604130069	Horsham Well #3 Raw	Analyzed by: 1CL
201604130070	Horsham Well #4 Raw	Analyzed by: 1CL
201604130071	Horsham Well #7 Raw	Analyzed by: 1CL
201604130072	Horsham Well #9 Raw	Analyzed by: 1CL
201604130073	Horsham Well #10 Raw	Analyzed by: 1CL

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Laboratory QC
Report: 584968

Aqua Pennsylvania, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 911819 - Perfluorinated Alkyl Acids by EPA 537						**Analysis Date: 05/20/2016**			
LCS1	13C-PFDA (S)			113	%	113	(70-130)		
LCS2	13C-PFDA (S)			107	%	107	(70-130)		
MBLK	13C-PFDA (S)			105	%	105	(70-130)		
MRL_CHK	13C-PFDA (S)			119	%	119	(70-130)		
MS1_201605170496	13C-PFDA (S)			104	%	104	(70-130)		
MSD1_201605170496	13C-PFDA (S)			106	%	106	(70-130)		
LCS1	13C-PFHxA (S)			112	%	112	(70-130)		
LCS2	13C-PFHxA (S)			104	%	104	(70-130)		
MBLK	13C-PFHxA (S)			105	%	105	(70-130)		
MRL_CHK	13C-PFHxA (S)			114	%	114	(70-130)		
MS1_201605170496	13C-PFHxA (S)			106	%	106	(70-130)		
MSD1_201605170496	13C-PFHxA (S)			103	%	103	(70-130)		
LCS1	13C-PFOA (I)			97.8	%	98	(50-150)		
LCS2	13C-PFOA (I)			105	%	105	(50-150)		
MBLK	13C-PFOA (I)			108	%	108	(50-150)		
MRL_CHK	13C-PFOA (I)			95.9	%	96	(50-150)		
MS1_201605170496	13C-PFOA (I)			103	%	103	(50-150)		
MSD1_201605170496	13C-PFOA (I)			103	%	103	(50-150)		
LCS1	13C-PFOS (I)			98.5	%	99	(50-150)		
LCS2	13C-PFOS (I)			106	%	106	(50-150)		
MBLK	13C-PFOS (I)			106	%	106	(50-150)		
MRL_CHK	13C-PFOS (I)			94.6	%	95	(50-150)		
MS1_201605170496	13C-PFOS (I)			104	%	104	(50-150)		
MSD1_201605170496	13C-PFOS (I)			105	%	105	(50-150)		
LCS1	Perfluorobutanesulfonic acid		0.022	0.0236	ug/L	106	(70-130)		
LCS2	Perfluorobutanesulfonic acid		0.022	0.0218	ug/L	99	(70-130)	30	7.5
MBLK	Perfluorobutanesulfonic acid			<0.00074	ug/L				
MRL_CHK	Perfluorobutanesulfonic acid		0.0022	0.00199	ug/L	90	(50-150)		
MS1_201605170496	Perfluorobutanesulfonic acid	ND	0.022	0.0219	ug/L	98	(70-130)		
MSD1_201605170496	Perfluorobutanesulfonic acid	ND	0.022	0.0218	ug/L	97	(70-130)	30	0.46
LCS1	Perfluorodecanoic acid		0.025	0.0265	ug/L	106	(70-130)		
LCS2	Perfluorodecanoic acid		0.025	0.0253	ug/L	101	(70-130)	30	4.6
MBLK	Perfluorodecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorodecanoic acid		0.0025	0.00225	ug/L	90	(50-150)		
MS1_201605170496	Perfluorodecanoic acid	ND	0.025	0.0248	ug/L	99	(70-130)		
MSD1_201605170496	Perfluorodecanoic acid	ND	0.025	0.0249	ug/L	100	(70-130)	30	0.40

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Perfluorododecanoic acid		0.025	0.0276	ug/L	111	(70-130)		
LCS2	Perfluorododecanoic acid		0.025	0.0258	ug/L	103	(70-130)	30	6.7
MBLK	Perfluorododecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorododecanoic acid		0.0025	0.00243	ug/L	97	(50-150)		
MS1_201605170496	Perfluorododecanoic acid	ND	0.025	0.0250	ug/L	100	(70-130)		
MSD1_201605170496	Perfluorododecanoic acid	ND	0.025	0.0244	ug/L	98	(70-130)	30	2.4
LCS1	Perfluoroheptanoic acid		0.025	0.0268	ug/L	107	(70-130)		
LCS2	Perfluoroheptanoic acid		0.025	0.0258	ug/L	103	(70-130)	30	3.8
MBLK	Perfluoroheptanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluoroheptanoic acid		0.0025	0.00226	ug/L	90	(50-150)		
MS1_201605170496	Perfluoroheptanoic acid	ND	0.025	0.0257	ug/L	102	(70-130)		
MSD1_201605170496	Perfluoroheptanoic acid	ND	0.025	0.0255	ug/L	101	(70-130)	30	0.78
LCS1	Perfluorohexanesulfonic acid		0.024	0.0237	ug/L	100	(70-130)		
LCS2	Perfluorohexanesulfonic acid		0.024	0.0228	ug/L	96	(70-130)	30	3.9
MBLK	Perfluorohexanesulfonic acid			<0.00079	ug/L				
MRL_CHK	Perfluorohexanesulfonic acid		0.0024	0.00184	ug/L	78	(50-150)		
MS1_201605170496	Perfluorohexanesulfonic acid	ND	0.024	0.0239	ug/L	98	(70-130)		
MSD1_201605170496	Perfluorohexanesulfonic acid	ND	0.024	0.0238	ug/L	98	(70-130)	30	0.42
LCS1	Perfluorohexanoic acid		0.025	0.0270	ug/L	108	(70-130)		
LCS2	Perfluorohexanoic acid		0.025	0.0257	ug/L	103	(70-130)	30	4.9
MBLK	Perfluorohexanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorohexanoic acid		0.0025	0.00248	ug/L	99	(50-150)		
MS1_201605170496	Perfluorohexanoic acid	ND	0.025	0.0272	ug/L	103	(70-130)		
MSD1_201605170496	Perfluorohexanoic acid	ND	0.025	0.0268	ug/L	101	(70-130)	30	1.9
LCS1	Perfluorononanoic acid		0.025	0.0246	ug/L	98	(70-130)		
LCS2	Perfluorononanoic acid		0.025	0.0253	ug/L	101	(70-130)	30	2.8
MBLK	Perfluorononanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorononanoic acid		0.0025	0.00220	ug/L	88	(50-150)		
MS1_201605170496	Perfluorononanoic acid	ND	0.025	0.0252	ug/L	100	(70-130)		
MSD1_201605170496	Perfluorononanoic acid	ND	0.025	0.0255	ug/L	101	(70-130)	30	1.2
LCS1	Perfluorooctanesulfonic acid		0.024	0.0229	ug/L	96	(70-130)		
LCS2	Perfluorooctanesulfonic acid		0.024	0.0226	ug/L	94	(70-130)	30	1.3
MBLK	Perfluorooctanesulfonic acid			<0.0008	ug/L				
MRL_CHK	Perfluorooctanesulfonic acid		0.0024	0.00170	ug/L	71	(50-150)		
MS1_201605170496	Perfluorooctanesulfonic acid	ND	0.024	0.0225	ug/L	89	(70-130)		
MSD1_201605170496	Perfluorooctanesulfonic acid	ND	0.024	0.0230	ug/L	91	(70-130)	30	2.2
LCS1	Perfluorooctanoic acid		0.025	0.0321	ug/L	129	(70-130)		
LCS2	Perfluorooctanoic acid		0.025	0.0285	ug/L	114	(70-130)	30	12

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Report: 584968

Aqua Pennsylvania, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Perfluorooctanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorooctanoic acid		0.0025	0.00249	ug/L	100	(50-150)		
MS1_201605170496	Perfluorooctanoic acid	0.0038	0.025	0.0277	ug/L	96	(70-130)		
MSD1_201605170496	Perfluorooctanoic acid	0.0038	0.025	0.0282	ug/L	98	(70-130)	30	1.8
LCS1	Perfluorotetradecanoic acid		0.025	0.0234	ug/L	94	(70-130)		
LCS2	Perfluorotetradecanoic acid		0.025	0.0246	ug/L	98	(70-130)	30	5.0
MBLK	Perfluorotetradecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorotetradecanoic acid		0.0025	0.00214	ug/L	86	(50-150)		
MS1_201605170496	Perfluorotetradecanoic acid	ND	0.025	0.0238	ug/L	95	(70-130)		
MSD1_201605170496	Perfluorotetradecanoic acid	ND	0.025	0.0219	ug/L	87	(70-130)	30	8.3
LCS1	Perfluorotridecanoic acid		0.025	0.0239	ug/L	96	(70-130)		
LCS2	Perfluorotridecanoic acid		0.025	0.0244	ug/L	98	(70-130)	30	2.1
MBLK	Perfluorotridecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorotridecanoic acid		0.0025	0.00217	ug/L	87	(50-150)		
MS1_201605170496	Perfluorotridecanoic acid	ND	0.025	0.0235	ug/L	94	(70-130)		
MSD1_201605170496	Perfluorotridecanoic acid	ND	0.025	0.0215	ug/L	86	(70-130)	30	8.9
LCS1	Perfluoroundecanoic acid		0.025	0.0284	ug/L	113	(70-130)		
LCS2	Perfluoroundecanoic acid		0.025	0.0266	ug/L	106	(70-130)	30	6.5
MBLK	Perfluoroundecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluoroundecanoic acid		0.0025	0.00267	ug/L	107	(50-150)		
MS1_201605170496	Perfluoroundecanoic acid	ND	0.025	0.0255	ug/L	102	(70-130)		
MSD1_201605170496	Perfluoroundecanoic acid	ND	0.025	0.0259	ug/L	104	(70-130)	30	1.6
QC Ref# 912598 - Perfluorinated Alkyl Acids by EPA 537						**Analysis Date: 05/23/2016**			
LCS1	13C-PFDA (S)			106	%	106	(70-130)		
LCS2	13C-PFDA (S)			96.4	%	96	(70-130)		
MBLK	13C-PFDA (S)			102	%	102	(70-130)		
MRL_CHK	13C-PFDA (S)			97.1	%	97	(70-130)		
MS_201605110054	13C-PFDA (S)			95.9	%	96	(70-130)		
MSD_201605110054	13C-PFDA (S)			95.8	%	96	(70-130)		
LCS1	13C-PFHxA (S)			105	%	105	(70-130)		
LCS2	13C-PFHxA (S)			97.4	%	97	(70-130)		
MBLK	13C-PFHxA (S)			102	%	103	(70-130)		
MRL_CHK	13C-PFHxA (S)			102	%	102	(70-130)		
MS_201605110054	13C-PFHxA (S)			99.6	%	100	(70-130)		
MSD_201605110054	13C-PFHxA (S)			98.5	%	99	(70-130)		
LCS1	13C-PFOA (I)			102	%	102	(50-150)		
LCS2	13C-PFOA (I)			113	%	113	(50-150)		
MBLK	13C-PFOA (I)			113	%	113	(50-150)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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Report: 584968

Aqua Pennsylvania, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	13C-PFOA (I)			113	%	113	(50-150)		
MS_201605110054	13C-PFOA (I)			109	%	109	(50-150)		
MSD_201605110054	13C-PFOA (I)			106	%	107	(50-150)		
LCS1	13C-PFOS (I)			102	%	102	(50-150)		
LCS2	13C-PFOS (I)			112	%	112	(50-150)		
MBLK	13C-PFOS (I)			108	%	108	(50-150)		
MRL_CHK	13C-PFOS (I)			108	%	108	(50-150)		
MS_201605110054	13C-PFOS (I)			108	%	108	(50-150)		
MSD_201605110054	13C-PFOS (I)			104	%	104	(50-150)		
LCS1	Perfluorobutanesulfonic acid		0.022	0.0228	ug/L	103	(70-130)		
LCS2	Perfluorobutanesulfonic acid		0.022	0.0218	ug/L	98	(70-130)	30	4.5
MBLK	Perfluorobutanesulfonic acid			<0.00074	ug/L				
MRL_CHK	Perfluorobutanesulfonic acid		0.0022	0.00196	ug/L	88	(50-150)		
MS_201605110054	Perfluorobutanesulfonic acid	ND	0.0022	0.00230	ug/L	92	(50-150)		
MSD_201605110054	Perfluorobutanesulfonic acid	ND	0.0022	0.00220	ug/L	87	(50-150)	50	4.9
LCS1	Perfluorodecanoic acid		0.025	0.0264	ug/L	106	(70-130)		
LCS2	Perfluorodecanoic acid		0.025	0.0243	ug/L	97	(70-130)	30	8.3
MBLK	Perfluorodecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorodecanoic acid		0.0025	0.00216	ug/L	86	(50-150)		
MS_201605110054	Perfluorodecanoic acid	ND	0.0025	0.00224	ug/L	90	(50-150)		
MSD_201605110054	Perfluorodecanoic acid	ND	0.0025	0.00215	ug/L	86	(50-150)	50	4.1
LCS1	Perfluorododecanoic acid		0.025	0.0266	ug/L	106	(70-130)		
LCS2	Perfluorododecanoic acid		0.025	0.0233	ug/L	93	(70-130)	30	13
MBLK	Perfluorododecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorododecanoic acid		0.0025	0.00204	ug/L	81	(50-150)		
MS_201605110054	Perfluorododecanoic acid	ND	0.0025	0.00196	ug/L	78	(50-150)		
MSD_201605110054	Perfluorododecanoic acid	ND	0.0025	0.00196	ug/L	79	(50-150)	50	0.0
LCS1	Perfluoroheptanoic acid		0.025	0.0255	ug/L	102	(70-130)		
LCS2	Perfluoroheptanoic acid		0.025	0.0243	ug/L	97	(70-130)	30	4.8
MBLK	Perfluoroheptanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluoroheptanoic acid		0.0025	0.00212	ug/L	85	(50-150)		
MS_201605110054	Perfluoroheptanoic acid	ND	0.0025	0.00252	ug/L	89	(50-150)		
MSD_201605110054	Perfluoroheptanoic acid	ND	0.0025	0.00248	ug/L	87	(50-150)	50	1.6
LCS1	Perfluorohexanesulfonic acid		0.024	0.0236	ug/L	100	(70-130)		
LCS2	Perfluorohexanesulfonic acid		0.024	0.0228	ug/L	96	(70-130)	30	3.5
MBLK	Perfluorohexanesulfonic acid			<0.00079	ug/L				
MRL_CHK	Perfluorohexanesulfonic acid		0.0024	0.00195	ug/L	82	(50-150)		
MS_201605110054	Perfluorohexanesulfonic acid	ND	0.0024	0.00290	ug/L	94	(50-150)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201605110054	Perfluorohexanesulfonic acid	ND	0.0024	0.00269	ug/L	85	(50-150)	50	7.5
LCS1	Perfluorohexanoic acid		0.025	0.0253	ug/L	101	(70-130)		
LCS2	Perfluorohexanoic acid		0.025	0.0239	ug/L	96	(70-130)	30	5.7
MBLK	Perfluorohexanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorohexanoic acid		0.0025	0.00211	ug/L	85	(50-150)		
MS_201605110054	Perfluorohexanoic acid	ND	0.0025	0.00390	ug/L	90	(50-150)		
MSD_201605110054	Perfluorohexanoic acid	ND	0.0025	0.00377	ug/L	85	(50-150)	50	3.4
LCS1	Perfluorononanoic acid		0.025	0.0257	ug/L	103	(70-130)		
LCS2	Perfluorononanoic acid		0.025	0.0238	ug/L	95	(70-130)	30	7.3
MBLK	Perfluorononanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorononanoic acid		0.0025	0.00215	ug/L	86	(50-150)		
MS_201605110054	Perfluorononanoic acid	ND	0.0025	0.00233	ug/L	89	(50-150)		
MSD_201605110054	Perfluorononanoic acid	ND	0.0025	0.00234	ug/L	89	(50-150)	50	0.43
LCS1	Perfluorooctanesulfonic acid		0.024	0.0236	ug/L	99	(70-130)		
LCS2	Perfluorooctanesulfonic acid		0.024	0.0220	ug/L	92	(70-130)	30	7.0
MBLK	Perfluorooctanesulfonic acid			<0.0008	ug/L				
MRL_CHK	Perfluorooctanesulfonic acid		0.0024	0.00166	ug/L	69	(50-150)		
MS_201605110054	Perfluorooctanesulfonic acid	ND	0.0024	0.00332	ug/L	102	(50-150)		
MSD_201605110054	Perfluorooctanesulfonic acid	ND	0.0024	0.00314	ug/L	94	(50-150)	50	5.6
LCS1	Perfluorooctanoic acid		0.025	0.0266	ug/L	107	(70-130)		
LCS2	Perfluorooctanoic acid		0.025	0.0250	ug/L	100	(70-130)	30	6.2
MBLK	Perfluorooctanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorooctanoic acid		0.0025	0.00250	ug/L	100	(50-150)		
MS_201605110054	Perfluorooctanoic acid	ND	0.0025	0.00328	ug/L	88	(50-150)		
MSD_201605110054	Perfluorooctanoic acid	ND	0.0025	0.00316	ug/L	84	(50-150)	50	3.7
LCS1	Perfluorotetradecanoic acid		0.025	0.0250	ug/L	100	(70-130)		
LCS2	Perfluorotetradecanoic acid		0.025	0.0233	ug/L	93	(70-130)	30	7.0
MBLK	Perfluorotetradecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorotetradecanoic acid		0.0025	0.00207	ug/L	83	(50-150)		
MS_201605110054	Perfluorotetradecanoic acid	ND	0.0025	0.00201	ug/L	76	(50-150)		
MSD_201605110054	Perfluorotetradecanoic acid	ND	0.0025	0.00203	ug/L	77	(50-150)	50	0.99
LCS1	Perfluorotridecanoic acid		0.025	0.0262	ug/L	105	(70-130)		
LCS2	Perfluorotridecanoic acid		0.025	0.0231	ug/L	93	(70-130)	30	13
MBLK	Perfluorotridecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorotridecanoic acid		0.0025	0.00202	ug/L	81	(50-150)		
MS_201605110054	Perfluorotridecanoic acid	ND	0.0025	0.00188	ug/L	75	(50-150)		
MSD_201605110054	Perfluorotridecanoic acid	ND	0.0025	0.00190	ug/L	76	(50-150)	50	1.1
LCS1	Perfluoroundecanoic acid		0.025	0.0274	ug/L	109	(70-130)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Perfluoroundecanoic acid		0.025	0.0249	ug/L	100	(70-130)	30	9.6
MBLK	Perfluoroundecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluoroundecanoic acid		0.0025	0.00219	ug/L	88	(50-150)		
MS_201605110054	Perfluoroundecanoic acid	ND	0.0025	0.00219	ug/L	88	(50-150)		
MSD_201605110054	Perfluoroundecanoic acid	ND	0.0025	0.00220	ug/L	88	(50-150)	50	0.46

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.