

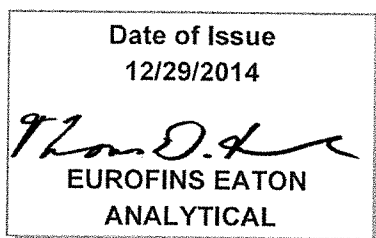
750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)



Laboratory Report

for

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



TDF: Thomas.D.French
Project Manager

Report: 512159
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 *	T104704230-14-7
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 ²⁻ 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>

Acknowledgement of Samples Received

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

Client ID: HORSHAM-PA
 Folder #: 512159
 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 **December 12, 2014** at **1216**. 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>201412120387</u>	00109-109-Well # 10 Sample Type: EP Sample Event: SE2 Facility ID: 00109 Sample Point ID: 109 PWSID: PA1460033 Static ID: EP @UCMR3 522 C @UCMR3 537	12/09/2014 1040
<u>201412120388</u>	FB::00109-109-Well # 10 Static ID: FB @UCMR3 537 FB	12/09/2014 1040

Test Description

- @UCMR3 522 C -- UCMR3 1,4-Dioxane by EPA 522
- @UCMR3 537 -- UCMR3 537
- @UCMR3 537 FB -- UCMR3 537

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

Phone: 626 366 1100/ 800 566 LABS (800 566 5227)
 Fax: 626 366 1101

Website: www.EatonAnalytical.com

PWSID: PA1460033

Example: (CA1234567)

UCMR3 CHAIN OF CUSTODY RECORD

EUROFINS EATON ANALYTICAL USE ONLY

LOGIN COMMENTS:

SAMPLES CHECKED AGAINST COC BY: AS

SAMPLES LOGGED IN BY: AS

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

SAMPLE TEMP RECEIVED AT: Monrovia 2.7-0.5 = 2.4 °C (Compliance: ≤10°C for the first 48 hours or ≤6°C after 48 hours)

CONDITION OF BLUE ICE: Frozen Partially Frozen Thawed Well ice No ice


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

Folder No: 512159

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Aqua Pennsylvania, Inc. PROJECT CODE: UCMR3-PA
 EEA CLIENT CODE: HORSHAM-PA COC ID: PA1460033/ Horsham Water & Sewer Authority
 TAT requested: rush by adv notice only STD. X ___ 1 wk ___ 3 day ___ 2 day ___ 1 day ___

COMPLIANCE SAMPLES: (check for yes)
 - Requires upload to EPA database
 DATE: we MUST have PWSID#, Facility ID, Sample Point ID, and Sample Type to be able to upload data to EPA Database
 SEE ATTACHED BOTTLE ORDER FOR ANALYSES
 list ANALYSES REQUIRED (Mark "X" in all test required for each sample line)

SAMPLE DATE	SAMPLE TIME	FACILITY ID (per EPA Requirement) - 5 characters Max	UNIQUE FIELD SAMPLE ID (per EPA Requirement) - 20 characters max	WATER SOURCE TYPE ⁽¹⁾	SAMPLE EVENT # ⁽²⁾	SAMLE POINT TYPE ID ⁽¹⁾	DISINFECTANT TYPE ⁽³⁾	UCMR3 200.8	UCMR3 200.8 - FB *	UCMR3 218.7	UCMR3 Chlorate	UCMR3 524.3	UCMR3 524.3 - TB *	UCMR3 522	UCMR3 537	UCMR3 537 - FB *	UCMR3 539	UCMR3 539 - FB *	SAMPLER COMMENTS
12/9/14	1040	00109-109	Well #10	GW	SE2	EP								X	X	X			
Victor Plascencia Eurofins Eaton Analytical DEC 17 2014 12:10 																			

(1) Water Source Type: SW: Surface Water GW: Ground Water GU: Ground Water under the direct influence of SW MX: Any Combination of previous three water types

(2) Sample Event Code: SE1 (first) SE2 (second) SE3 (third) SE4 (fourth)

(3) Sampling Point Type ID: EP: Entry Point to the distribution system MR: Distribution System sample at maximum residence time

(4) Disinfectant Type: CLGA: Gaseous Chlorine CLDF: Onsite Generated Hypochlorite (stored as liquid form) CLON: Onsite Generated Hypochlorite (no storage) CAGC: Chloramine (formed from gaseous chlorine) CAOF: Chloramine (formed from onsite hypochlorite) CAON: Chloramine (formed from onsite hypochlorite) CLDO: Chlorine Dioxide OZON: Ozone ULVL: Ultraviolet Light OTHD: All Other Types of Disinfectant NDBU: No Disinfectant Used

* Field Blank (FB) or Trip Blank (TB) are analyzed only when associated samples have positive results (>MRL)

SAMPLED BY: _____ SIGNATURE _____ PRINT NAME _____ COMPANY _____ DATE _____ TIME _____

REINQUISHED BY: A. Nguyen DATE: 12/9/14 TIME: 1040

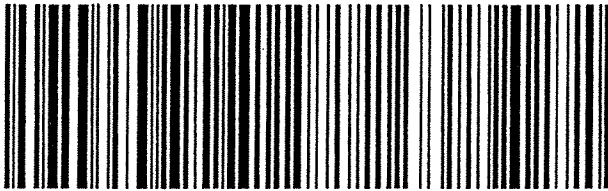
REINQUISHED BY: A. Nguyen DATE: 12/11/14 TIME: 1600

RECEIVED BY: _____

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.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number. 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 Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



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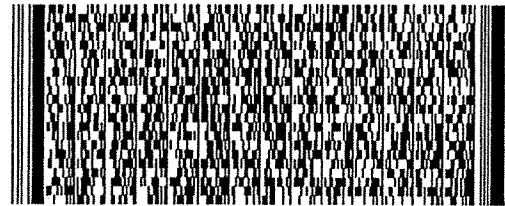
91016
CA-US
BUR

NH WHPA

0204

TRK# 7721 9092 3792

FRI - 12 DEC AA
STANDARD OVERNIGHT



SHIP TO: (626) 386-1100
LOGIN
MWH Americas, INC,
750 Royal Oaks Drive
Suite 100
Monrovia, CA 91016

BILL RECEIPT

J1422140823039

From: (610) 645-1176
Michael Sent
Aqua
762 West Lancaster Avenue
Bryn Mawr, PA 19010



Origin ID: WAYA



Ship Date: 11DEC14
ActWgt: 15.0 LB
CAD: 100061330/NET3550
Dims: 24 X 13 X 14 IN

Delivery Address Bar Code

Ref # UCMR3
Invoice # 15-3031
PO # 15-3031
Dept # 15-3031



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750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
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Fax: (626) 386-1101
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Laboratory Comments
Report: 512159

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.



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UCMR Field Blank
Report: 512159

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

Samples Received on:
12/12/2014 1216

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
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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: 512159

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

Samples Received on:
12/12/2014 12:16

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201412120387	<u>00109-109-Well # 10</u>				
12/23/2014 9:55	1,4-Dioxane		0.085		ug/L	0.07
12/17/2014 9:38	Perfluoro octanesulfonic acid - PFOS		0.045		ug/L	0.04
12/17/2014 9:38	Perfluoro-1-hexanesulfonic acid - PFHxS		0.040		ug/L	0.03
12/17/2014 9:38	Perfluorooctanoic acid - PFOA		0.026		ug/L	0.02

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Data
 Report: 512159

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

Samples Received on:
 12/12/2014 1216

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
00109-109-Well # 10 (201412120387)					Sampled on 12/09/2014 1040			
Sample Type: EP								
Sample Event: SE2								
Facility ID: 00109								
Sample Point ID: 109								
PWSID: PA1460033								
Static ID: EP								
EPA 522 - UCMR3 1,4-Dioxane by EPA 522								
12/17/2014	12/23/2014	9:55 811325	(EPA 522)	1,4-Dioxane	0.085	ug/L	0.07	1
12/17/2014	12/23/2014	9:55 811325	(EPA 522)	Dioxane-d8	105	%		1
12/17/2014	12/23/2014	9:55 811325	(EPA 522)	THF-d8	74	%		1
EPA 537 - UCMR3 537								
12/17/2014	9:38 809618	(EPA 537)		Perfluoro octanesulfonic acid - PFOS	0.045	ug/L	0.04	1
12/17/2014	9:38 809618	(EPA 537)		Perfluoro-1-butanesulfonic acid -PFBS	ND	ug/L	0.09	1
12/17/2014	9:38 809618	(EPA 537)		Perfluoro-1-hexanesulfonic acid - PFHxS	0.040	ug/L	0.03	1
12/17/2014	9:38 809618	(EPA 537)		Perfluoroheptanoic acid - PFHpA	ND	ug/L	0.01	1
12/17/2014	9:38 809618	(EPA 537)		Perfluoro-n-nonanoic acid -PFNA	ND	ug/L	0.02	1
12/17/2014	9:38 809618	(EPA 537)		Perfluorooctanoic acid - PFOA	0.026	ug/L	0.02	1
12/17/2014	9:38 809618	(EPA 537)		13C-PFDA - Surr#2	90	%		1
12/17/2014	9:38 809618	(EPA 537)		13C-PFHxA - Surr#1	97	%		1
12/17/2014	9:38 809618	(EPA 537)		13C-PFOA- IS#1	98	%		1
12/17/2014	9:38 809618	(EPA 537)		13C-PFOS- IS#2	97	%		1
FB::00109-109-Well # 10 (201412120388)					Sampled on 12/09/2014 1040			
Static ID: FB								
EPA 537 - UCMR3 537								
12/24/2014	20:16 811275	(EPA 537)		Perfluoro octanesulfonic acid - PFOS	ND	ug/L	0.04	1
12/24/2014	20:16 811275	(EPA 537)		Perfluoro-1-butanesulfonic acid -PFBS	ND	ug/L	0.09	1
12/24/2014	20:16 811275	(EPA 537)		Perfluoro-1-hexanesulfonic acid - PFHxS	ND	ug/L	0.03	1
12/24/2014	20:16 811275	(EPA 537)		Perfluoroheptanoic acid - PFHpA	ND	ug/L	0.01	1
12/24/2014	20:16 811275	(EPA 537)		Perfluoro-n-nonanoic acid -PFNA	ND	ug/L	0.02	1
12/24/2014	20:16 811275	(EPA 537)		Perfluorooctanoic acid - PFOA	ND	ug/L	0.02	1
12/24/2014	20:16 811275	(EPA 537)		13C-PFDA - Surr#2	92	%		1
12/24/2014	20:16 811275	(EPA 537)		13C-PFHxA - Surr#1	89	%		1
12/24/2014	20:16 811275	(EPA 537)		13C-PFOA- IS#1	110	%		1
12/24/2014	20:16 811275	(EPA 537)		13C-PFOS- IS#2	104	%		1

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



Eaton Analytical

Laboratory
QC Summary: 512159

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Horsham Water & Sewer Authority

QC Ref # 809618 - UCMR3 537

201412120387 00109-109-Well # 10

Analysis Date: 12/17/2014

Analyzed by: 1CL

QC Ref # 811275 - UCMR3 537

201412120388 FB::00109-109-Well # 10

Analysis Date: 12/24/2014

Analyzed by: 1CL

QC Ref # 811325 - UCMR3 1,4-Dioxane by EPA 522

201412120387 00109-109-Well # 10

Analysis Date: 12/23/2014

Analyzed by: PAC

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Horsham Water & Sewer Authority

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 809618 - UCMR3 537 by EPA 537						Analysis Date: 12/17/2014			
CCCH	13C-PFDA - Surr#2 (S)			99.5	%	99	(70-130)		
CCCL	13C-PFDA - Surr#2 (S)			97.1	%	97	(70-130)		
CCCM	13C-PFDA - Surr#2 (S)			97.4	%	97	(70-130)		
MBLK_HI	13C-PFDA - Surr#2 (S)			93.0	%	93	(70-130)		
MRLHI	13C-PFDA - Surr#2 (S)			92.6	%	93	(70-130)		
MS2_201412120275	13C-PFDA - Surr#2 (S)			90.9	%	91	(70-130)		
MSD2_201412120275	13C-PFDA - Surr#2 (S)			88.4	%	88	(70-130)		
QCS	13C-PFDA - Surr#2 (S)			99.2	%	99	(70-130)		
CCCH	13C-PFHxA - Surr#1 (S)			96.0	%	96	(70-130)		
CCCL	13C-PFHxA - Surr#1 (S)			96.4	%	96	(70-130)		
CCCM	13C-PFHxA - Surr#1 (S)			98.4	%	98	(70-130)		
MBLK_HI	13C-PFHxA - Surr#1 (S)			99.2	%	99	(70-130)		
MRLHI	13C-PFHxA - Surr#1 (S)			96.8	%	97	(70-130)		
MS2_201412120275	13C-PFHxA - Surr#1 (S)			100	%	100	(70-130)		
MSD2_201412120275	13C-PFHxA - Surr#1 (S)			101	%	101	(70-130)		
QCS	13C-PFHxA - Surr#1 (S)			96.7	%	97	(70-130)		
CCCH	13C-PFOA- IS#1 (I)			106	%	106	(50-150)		
CCCL	13C-PFOA- IS#1 (I)			104	%	104	(50-150)		
CCCM	13C-PFOA- IS#1 (I)			106	%	106	(50-150)		
MBLK_HI	13C-PFOA- IS#1 (I)			107	%	107	(50-150)		
MRLHI	13C-PFOA- IS#1 (I)			107	%	107	(50-150)		
MS2_201412120275	13C-PFOA- IS#1 (I)			103	%	103	(50-150)		
MSD2_201412120275	13C-PFOA- IS#1 (I)			102	%	102	(50-150)		
QCS	13C-PFOA- IS#1 (I)			100	%	101	(50-150)		
CCCH	13C-PFOS- IS#2 (I)			102	%	102	(50-150)		
CCCL	13C-PFOS- IS#2 (I)			104	%	104	(50-150)		
CCCM	13C-PFOS- IS#2 (I)			105	%	105	(50-150)		
MBLK_HI	13C-PFOS- IS#2 (I)			102	%	103	(50-150)		
MRLHI	13C-PFOS- IS#2 (I)			102	%	102	(50-150)		
MS2_201412120275	13C-PFOS- IS#2 (I)			99.5	%	100	(50-150)		
MSD2_201412120275	13C-PFOS- IS#2 (I)			97.6	%	98	(50-150)		
QCS	13C-PFOS- IS#2 (I)			101	%	101	(50-150)		
CCCH	Perfluoro octanesulfonic acid - PFOS		0.13	0.130	ug/L	102	(70-130)		
CCCL	Perfluoro octanesulfonic acid - PFOS		0.032	0.0309	ug/L	97	(50-150)		
CCCM	Perfluoro octanesulfonic acid - PFOS		0.064	0.0620	ug/L	97	(70-130)		
MBLK_HI	Perfluoro octanesulfonic acid - PFOS	ND		<0.01333	ug/L				

Spike recovery is already corrected for native results.

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750 Royal Oaks Drive, Suite 100
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 1 800 566 LABS (1 800 566 5227)

Laboratory QC
 Report: 512159

Horsham Water & Sewer Authority

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRLHI	Perfluoro octanesulfonic acid - PFOS		0.04	0.0397	ug/L	99	(50-150)		
MS2_201412120275	Perfluoro octanesulfonic acid - PFOS	ND	0.08	0.0925	ug/L	99	(70-130)		
MSD2_201412120275	Perfluoro octanesulfonic acid - PFOS	ND	0.08	0.0938	ug/L	101	(70-130)	30	1.4
QCS	Perfluoro octanesulfonic acid - PFOS		0.048	0.0422	ug/L	88	(70-130)		
CCCH	Perfluoro-1-butanefulfonic acid -PFBS		0.29	0.293	ug/L	101	(70-130)		
CCCL	Perfluoro-1-butanefulfonic acid -PFBS		0.078	0.0711	ug/L	91	(50-150)		
CCCM	Perfluoro-1-butanefulfonic acid -PFBS		0.15	0.146	ug/L	101	(70-130)		
MBLK_HI	Perfluoro-1-butanefulfonic acid -PFBS	ND		<0.03033	ug/L				
MRLHI	Perfluoro-1-butanefulfonic acid -PFBS		0.09	0.0936	ug/L	104	(50-150)		
MS2_201412120275	Perfluoro-1-butanefulfonic acid -PFBS	ND	0.18	0.197	ug/L	107	(70-130)		
MSD2_201412120275	Perfluoro-1-butanefulfonic acid -PFBS	ND	0.18	0.196	ug/L	106	(70-130)	30	0.51
QCS	Perfluoro-1-butanefulfonic acid -PFBS		0.044	0.0490	ug/L	110	(70-130)		
CCCH	Perfluoro-1-hexanesulfonic acid - PFHxS		0.096	0.0972	ug/L	101	(70-130)		
CCCL	Perfluoro-1-hexanesulfonic acid - PFHxS		0.024	0.0225	ug/L	94	(50-150)		
CCCM	Perfluoro-1-hexanesulfonic acid - PFHxS		0.048	0.0470	ug/L	98	(70-130)		
MBLK_HI	Perfluoro-1-hexanesulfonic acid - PFHxS	ND		<0.0100	ug/L				
MRLHI	Perfluoro-1-hexanesulfonic acid - PFHxS		0.03	0.0297	ug/L	99	(50-150)		
MS2_201412120275	Perfluoro-1-hexanesulfonic acid - PFHxS	ND	0.06	0.0667	ug/L	103	(70-130)		
MSD2_201412120275	Perfluoro-1-hexanesulfonic acid - PFHxS	ND	0.06	0.0672	ug/L	104	(70-130)	30	0.90
QCS	Perfluoro-1-hexanesulfonic acid - PFHxS		0.048	0.0413	ug/L	87	(70-130)		
CCCH	Perfluoroheptanoic acid - PFHpA		0.032	0.0309	ug/L	97	(70-130)		
CCCL	Perfluoroheptanoic acid - PFHpA		0.008	0.00755	ug/L	94	(50-150)		
CCCM	Perfluoroheptanoic acid - PFHpA		0.016	0.0157	ug/L	98	(70-130)		
MBLK_HI	Perfluoroheptanoic acid - PFHpA	ND		<0.00333	ug/L				
MRLHI	Perfluoroheptanoic acid - PFHpA		0.01	0.00989	ug/L	99	(50-150)		
MS2_201412120275	Perfluoroheptanoic acid - PFHpA	ND	0.02	0.0217	ug/L	97	(70-130)		
MSD2_201412120275	Perfluoroheptanoic acid - PFHpA	ND	0.02	0.0223	ug/L	100	(70-130)	30	2.7
QCS	Perfluoroheptanoic acid - PFHpA		0.05	0.0536	ug/L	107	(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	0.0160	ug/L	100	(50-150)		
CCCM	Perfluoro-n-nonanoic acid -PFNA		0.032	0.0321	ug/L	100	(70-130)		
MBLK_HI	Perfluoro-n-nonanoic acid -PFNA	ND		<0.00666	ug/L				
MRLHI	Perfluoro-n-nonanoic acid -PFNA		0.02	0.0197	ug/L	99	(50-150)		
MS2_201412120275	Perfluoro-n-nonanoic acid -PFNA	ND	0.04	0.0426	ug/L	104	(70-130)		
MSD2_201412120275	Perfluoro-n-nonanoic acid -PFNA	ND	0.04	0.0403	ug/L	98	(70-130)	30	5.5
QCS	Perfluoro-n-nonanoic acid -PFNA		0.05	0.0437	ug/L	87	(70-130)		
CCCH	Perfluorooctanoic acid - PFOA		0.064	0.0609	ug/L	95	(70-130)		
CCCL	Perfluorooctanoic acid - PFOA		0.016	0.0160	ug/L	100	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCM	Perfluorooctanoic acid - PFOA		0.032	0.0323	ug/L	101	(70-130)		
MBLK_HI	Perfluorooctanoic acid - PFOA	ND		<0.00666	ug/L				
MRLHI	Perfluorooctanoic acid - PFOA		0.02	0.0203	ug/L	101	(50-150)		
MS2_201412120275	Perfluorooctanoic acid - PFOA	ND	0.04	0.0459	ug/L	101	(70-130)		
MSD2_201412120275	Perfluorooctanoic acid - PFOA	ND	0.04	0.0455	ug/L	100	(70-130)	30	0.88
QCS	Perfluorooctanoic acid - PFOA		0.05	0.0494	ug/L	99	(70-130)		

QC Ref# 810610 - UCMR3 1,4-Dioxane by EPA 522 by EPA 522

Analysis Date: 12/19/2014

LCS1	1,4-Dioxane		20	20.2	ug/L	101	(70-130)		
LCS2	1,4-Dioxane		20	23.8	ug/L	119	(70-130)	20	16
MBLK	1,4-Dioxane			<0.023	ug/L				
MRL_CHK	1,4-Dioxane		0.07	0.0600	ug/L	86	(50-150)		
MS1_201412090691	1,4-Dioxane	ND	0.07	0.0770	ug/L	110	(50-150)		
MSD1_201412090691	1,4-Dioxane	ND	0.07	0.0700	ug/L	100	(50-150)	20	9.5
LCS1	Dioxane-d8			111	%	111	(70-130)		
LCS2	Dioxane-d8			121	%	121	(70-130)		
MBLK	Dioxane-d8			119	%				
MRL_CHK	Dioxane-d8			118	%	118	(70-130)		
MS1_201412090691	Dioxane-d8	125		104	%	104	(70-130)		
MSD1_201412090691	Dioxane-d8	125		112	%	112	(70-130)		
LCS1	THF-d8			83.0	%	83	(50-150)		
LCS2	THF-d8			81.0	%	81	(50-150)		
MBLK	THF-d8			78.8	%				
MRL_CHK	THF-d8			91.4	%	91	(50-150)		
MS1_201412090691	THF-d8	84		89.8	%	90	(50-150)		
MSD1_201412090691	THF-d8	84		81.3	%	81	(50-150)		

QC Ref# 811275 - UCMR3 537 by EPA 537

Analysis Date: 12/24/2014

CCCH	13C-PFDA - Surr#2 (S)			100	%	100	(70-130)		
CCCL	13C-PFDA - Surr#2 (S)			98.5	%	99	(70-130)		
CCCM	13C-PFDA - Surr#2 (S)			98.9	%	99	(70-130)		
MBLK_HI	13C-PFDA - Surr#2 (S)			85.2	%	85	(70-130)		
MRLHI	13C-PFDA - Surr#2 (S)			89.1	%	89	(70-130)		
MS2_201412130013	13C-PFDA - Surr#2 (S)			90.3	%	90	(70-130)		
MSD2_201412130013	13C-PFDA - Surr#2 (S)			91.7	%	92	(70-130)		
QCS	13C-PFDA - Surr#2 (S)			96.4	%	96	(70-130)		
CCCH	13C-PFHxA - Surr#1 (S)			95.4	%	95	(70-130)		
CCCL	13C-PFHxA - Surr#1 (S)			98.5	%	99	(70-130)		
CCCM	13C-PFHxA - Surr#1 (S)			96.4	%	96	(70-130)		

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 Report: 512159

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK_HI	13C-PFHxA - Surr#1 (S)			89.5	%	89	(70-130)		
MRLHI	13C-PFHxA - Surr#1 (S)			91.8	%	92	(70-130)		
MS2_201412130013	13C-PFHxA - Surr#1 (S)			95.3	%	95	(70-130)		
MSD2_201412130013	13C-PFHxA - Surr#1 (S)			92.8	%	93	(70-130)		
QCS	13C-PFHxA - Surr#1 (S)			93.9	%	94	(70-130)		
CCCH	13C-PFOA- IS#1 (I)			103	%	103	(50-150)		
CCCL	13C-PFOA- IS#1 (I)			102	%	102	(50-150)		
CCCM	13C-PFOA- IS#1 (I)			102	%	102	(50-150)		
MBLK_HI	13C-PFOA- IS#1 (I)			112	%	112	(50-150)		
MRLHI	13C-PFOA- IS#1 (I)			108	%	108	(50-150)		
MS2_201412130013	13C-PFOA- IS#1 (I)			97.0	%	97	(50-150)		
MSD2_201412130013	13C-PFOA- IS#1 (I)			100	%	100	(50-150)		
QCS	13C-PFOA- IS#1 (I)			105	%	105	(50-150)		
CCCH	13C-PFOS- IS#2 (I)			104	%	104	(50-150)		
CCCL	13C-PFOS- IS#2 (I)			103	%	103	(50-150)		
CCCM	13C-PFOS- IS#2 (I)			100	%	100	(50-150)		
MBLK_HI	13C-PFOS- IS#2 (I)			102	%	102	(50-150)		
MRLHI	13C-PFOS- IS#2 (I)			102	%	102	(50-150)		
MS2_201412130013	13C-PFOS- IS#2 (I)			97.4	%	97	(50-150)		
MSD2_201412130013	13C-PFOS- IS#2 (I)			96.8	%	97	(50-150)		
QCS	13C-PFOS- IS#2 (I)			101	%	101	(50-150)		
CCCH	Perfluoro octanesulfonic acid - PFOS		0.13	0.127	ug/L	100	(70-130)		
CCCL	Perfluoro octanesulfonic acid - PFOS		0.032	0.0306	ug/L	96	(50-150)		
CCCM	Perfluoro octanesulfonic acid - PFOS		0.064	0.0641	ug/L	100	(70-130)		
MBLK_HI	Perfluoro octanesulfonic acid - PFOS	ND		<0.01333	ug/L				
MRLHI	Perfluoro octanesulfonic acid - PFOS		0.04	0.0444	ug/L	111	(50-150)		
MS2_201412130013	Perfluoro octanesulfonic acid - PFOS	0.31	0.08	0.376	ug/L	86	(70-130)		
MSD2_201412130013	Perfluoro octanesulfonic acid - PFOS	0.31	0.08	0.367	ug/L	75	(70-130)	30	2.4
QCS	Perfluoro octanesulfonic acid - PFOS		0.048	0.0470	ug/L	98	(70-130)		
CCCH	Perfluoro-1-butanefulfonic acid -PFBS		0.29	0.278	ug/L	95	(70-130)		
CCCL	Perfluoro-1-butanefulfonic acid -PFBS		0.078	0.0724	ug/L	93	(50-150)		
CCCM	Perfluoro-1-butanefulfonic acid -PFBS		0.15	0.148	ug/L	102	(70-130)		
MBLK_HI	Perfluoro-1-butanefulfonic acid -PFBS	ND		<0.03033	ug/L				
MRLHI	Perfluoro-1-butanefulfonic acid -PFBS		0.09	0.107	ug/L	119	(50-150)		
MS2_201412130013	Perfluoro-1-butanefulfonic acid -PFBS	ND	0.18	0.243	ug/L	115	(70-130)		
MSD2_201412130013	Perfluoro-1-butanefulfonic acid -PFBS	ND	0.18	0.246	ug/L	117	(70-130)	30	1.2
QCS	Perfluoro-1-butanefulfonic acid -PFBS		0.044	0.0543	ug/L	122	(70-130)		
CCCH	Perfluoro-1-hexanesulfonic acid - PFHxS		0.096	0.0929	ug/L	97	(70-130)		

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Horsham Water & Sewer Authority

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCL	Perfluoro-1-hexanesulfonic acid - PFHxS		0.024	0.0230	ug/L	96	(50-150)		
CCCM	Perfluoro-1-hexanesulfonic acid - PFHxS		0.048	0.0484	ug/L	101	(70-130)		
MBLK_HI	Perfluoro-1-hexanesulfonic acid - PFHxS	ND		<0.0100	ug/L				
MRLHI	Perfluoro-1-hexanesulfonic acid - PFHxS		0.03	0.0344	ug/L	115	(50-150)		
MS2_201412130013	Perfluoro-1-hexanesulfonic acid - PFHxS	0.19	0.06	0.242	ug/L	92	(70-130)		
MSD2_201412130013	Perfluoro-1-hexanesulfonic acid - PFHxS	0.19	0.06	0.232	ug/L	77	(70-130)	30	4.2
QCS	Perfluoro-1-hexanesulfonic acid - PFHxS		0.048	0.0466	ug/L	98	(70-130)		
CCCH	Perfluoroheptanoic acid - PFHpA		0.032	0.0314	ug/L	98	(70-130)		
CCCL	Perfluoroheptanoic acid - PFHpA		0.008	0.00764	ug/L	96	(50-150)		
CCCM	Perfluoroheptanoic acid - PFHpA		0.016	0.0157	ug/L	98	(70-130)		
MBLK_HI	Perfluoroheptanoic acid - PFHpA	ND		<0.00333	ug/L				
MRLHI	Perfluoroheptanoic acid - PFHpA		0.01	0.0109	ug/L	109	(50-150)		
MS2_201412130013	Perfluoroheptanoic acid - PFHpA	0.016	0.02	0.0389	ug/L	113	(70-130)		
MSD2_201412130013	Perfluoroheptanoic acid - PFHpA	0.016	0.02	0.0389	ug/L	113	(70-130)	30	0.0
QCS	Perfluoroheptanoic acid - PFHpA		0.05	0.0585	ug/L	117	(70-130)		
CCCH	Perfluoro-n-nonanoic acid -PFNA		0.064	0.0644	ug/L	101	(70-130)		
CCCL	Perfluoro-n-nonanoic acid -PFNA		0.016	0.0158	ug/L	99	(50-150)		
CCCM	Perfluoro-n-nonanoic acid -PFNA		0.032	0.0326	ug/L	102	(70-130)		
MBLK_HI	Perfluoro-n-nonanoic acid -PFNA	ND		<0.00666	ug/L				
MRLHI	Perfluoro-n-nonanoic acid -PFNA		0.02	0.0213	ug/L	107	(50-150)		
MS2_201412130013	Perfluoro-n-nonanoic acid -PFNA	ND	0.04	0.0464	ug/L	109	(70-130)		
MSD2_201412130013	Perfluoro-n-nonanoic acid -PFNA	ND	0.04	0.0441	ug/L	104	(70-130)	30	5.1
QCS	Perfluoro-n-nonanoic acid -PFNA		0.05	0.0458	ug/L	92	(70-130)		
CCCH	Perfluorooctanoic acid - PFOA		0.064	0.0644	ug/L	101	(70-130)		
CCCL	Perfluorooctanoic acid - PFOA		0.016	0.0168	ug/L	105	(50-150)		
CCCM	Perfluorooctanoic acid - PFOA		0.032	0.0327	ug/L	102	(70-130)		
MBLK_HI	Perfluorooctanoic acid - PFOA	ND		<0.00666	ug/L				
MRLHI	Perfluorooctanoic acid - PFOA		0.02	0.0232	ug/L	116	(50-150)		
MS2_201412130013	Perfluorooctanoic acid - PFOA	0.12	0.04	0.151	ug/L	78	(70-130)		
MSD2_201412130013	Perfluorooctanoic acid - PFOA	0.12	0.04	0.150	ug/L	77	(70-130)	30	0.66
QCS	Perfluorooctanoic acid - PFOA		0.05	0.0538	ug/L	108	(70-130)		

QC Ref# 811325 - UCMR3 1,4-Dioxane by EPA 522 by EPA 522

Analysis Date: 12/23/2014

CCCL	1,4-Dioxane		0.07	0.0750	ug/L	107	(50-150)		
CCCM	1,4-Dioxane		20	18.5	ug/L	93	(70-130)		
CCCL	Dioxane-d8			98.4	%	98	(70-130)		
CCCM	Dioxane-d8			95.0	%	95	(70-130)		
CCCL	THF-d8			79.1	%	79	(50-150)		
CCCM	THF-d8			92.3	%	92	(50-150)		

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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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Eaton Analytical

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

Laboratory QC
Report: 512159

Horsham Water & Sewer Authority

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
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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.