

13 May 2019

Kevin Figgins  
EPCOR Water Arizona Inc.  
11201 West Alabama  
Youngtown, AZ 85363

RE: Agua Fria

Laboratory Work Order No.: 19D1961

Legend Technical Services of Arizona, Inc. is pleased to provide the enclosed analytical results for the aforementioned project. These results relate only to the items tested. This cover letter and the accompanying pages represent the full report for these analyses and should only be reproduced in full. Samples for this project were received by the laboratory on 04/16/19 14:51.

The samples were processed in accordance with the Chain of Custody document and the results presented relate only to the samples tested. The Chain of Custody is considered part of this report.

All samples will be retained by LEGEND for 30 days from the date of this report and then discarded unless other arrangements are made. Due to hold-time and method sample volume requirements, microbiological samples are not retained unless other arrangements are made.

This entire report was reviewed and approved for release by the undersigned. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

**LEGEND TECHNICAL SERVICES OF ARIZONA, INC.**



Barbara Frank  
Client Services Representative  
(602) 324-6100

*This laboratory report is confidential and is intended for the sole use of LEGEND and its client.*

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
AF9.3	19D1961-01	Groundwater	Grab	04/16/19 14:10	04/16/19 14:51
AF9.4	19D1961-02	Groundwater	Grab	04/16/19 13:55	04/16/19 14:51
AF9.3	19D1961-03	Groundwater	Grab	04/16/19 14:10	04/16/19 14:51
AF9.4	19D1961-04	Groundwater	Grab	04/16/19 13:55	04/16/19 14:51

**Sample Condition Upon Receipt:**

Temperature: 2.60 C

All samples were received in acceptable condition unless noted otherwise in the case narrative.

**Case Narrative:**

**Holding Times:** All holding times were met unless otherwise qualified.

**QA/QC Criteria:** All analyses met method requirements unless otherwise qualified.

**Certifications:** **AZ(PHX)0004, AZ(TUC)0004, AIHA#102982, CDC ELITE Member.**

Accreditation is applicable only to the test methods specified on each scope of accreditation held by LEGEND.

**Comments:** There were no problems encountered during the processing of the samples, unless otherwise noted. All samples were analyzed on a "wet" basis unless designated as "dry weight".

This report contains data that were produced by a subcontracted laboratory certified for the fields of testing performed.

**Eurofins Eaton Analytical, Inc. (fka UL) AZ0432**

Pat Muff

574-472-5503

**AF9.3 (19D1961-01) Groundwater (Grab) Sampled: 04/16/19 14:10 Received: 04/16/19 14:51**

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
UL#AZ0432									
<b>537</b>									
ADONA	<0.0000020	0.0000020	mg/L	0.9	258568	04/29/19 08:15	04/29/19 20:19	537	
F-53B Major	<0.0000020	0.0000020	mg/L	0.9	258568	04/29/19 08:15	04/29/19 20:19	537	
F-53B Minor	<0.0000020	0.0000020	mg/L	0.9	258568	04/29/19 08:15	04/29/19 20:19	537	
GenX	<0.000005	0.000005	mg/L	0.9	258568	04/29/19 08:15	04/29/19 20:19	537	
N-ethyl Perfluorooctanesulfonate	<0.0000020	0.0000020	mg/L	0.9	258568	04/29/19 08:15	04/29/19 20:19	537	
N-methyl Perfluorooctanesulfonate	<0.0000020	0.0000020	mg/L	0.9	258568	04/29/19 08:15	04/29/19 20:19	537	
Perfluorobutanesulfonic acid (PFBS)	<0.0000020	0.0000020	mg/L	0.9	258568	04/29/19 08:15	04/29/19 20:19	537	
Perfluorodecanoic acid (PFDA)	<0.0000020	0.0000020	mg/L	0.9	258568	04/29/19 08:15	04/29/19 20:19	537	
Perfluorododecanoic acid (PFDDA)	<0.0000020	0.0000020	mg/L	0.9	258568	04/29/19 08:15	04/29/19 20:19	537	
Perfluoroheptanoic acid (PFHpA)	<0.0000020	0.0000020	mg/L	0.9	258568	04/29/19 08:15	04/29/19 20:19	537	
Perfluorohexanesulfonic acid (PFHxS)	<0.0000020	0.0000020	mg/L	0.9	258568	04/29/19 08:15	04/29/19 20:19	537	
Perfluorohexanoic acid (PFHxA)	<0.0000020	0.0000020	mg/L	0.9	258568	04/29/19 08:15	04/29/19 20:19	537	
Perfluorononanoic acid (PFNA)	<0.0000020	0.0000020	mg/L	0.9	258568	04/29/19 08:15	04/29/19 20:19	537	
Perfluorooctanesulfonic acid (PFOS)	<0.0000020	0.0000020	mg/L	0.9	258568	04/29/19 08:15	04/29/19 20:19	537	
Perfluorooctanoic acid (PFOA)	<0.0000020	0.0000020	mg/L	0.9	258568	04/29/19 08:15	04/29/19 20:19	537	
Perfluorotetradecanoic acid (PFTrC)	<0.0000020	0.0000020	mg/L	0.9	258568	04/29/19 08:15	04/29/19 20:19	537	
Perfluorotridecanoic acid (PFTrC)	<0.0000020	0.0000020	mg/L	0.9	258568	04/29/19 08:15	04/29/19 20:19	537	
Perfluoroundecanoic acid (PFUnC)	<0.0000020	0.0000020	mg/L	0.9	258568	04/29/19 08:15	04/29/19 20:19	537	
Surrogate: SS-NEtFOSAA-d5		95 %		70-130	258568	04/29/19	04/29/19	537	
Surrogate: SS-PFDA-13C2		97 %		70-130	258568	04/29/19	04/29/19	537	
Surrogate: SS-PFHxA-13C2		99 %		70-130	258568	04/29/19	04/29/19	537	

**AF9.4 (19D1961-02) Groundwater (Grab) Sampled: 04/16/19 13:55 Received: 04/16/19 14:51**

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
UL#AZ0432									
<b>537</b>									
ADONA	<0.0000020	0.0000020	mg/L	0.89	258568	04/29/19 08:15	04/29/19 20:02	537	
F-53B Major	<0.0000020	0.0000020	mg/L	0.89	258568	04/29/19 08:15	04/29/19 20:02	537	
F-53B Minor	<0.0000020	0.0000020	mg/L	0.89	258568	04/29/19 08:15	04/29/19 20:02	537	
GenX	<0.000005	0.000005	mg/L	0.89	258568	04/29/19 08:15	04/29/19 20:02	537	
N-ethyl Perfluorooctanesulfonate	<0.0000020	0.0000020	mg/L	0.89	258568	04/29/19 08:15	04/29/19 20:02	537	
N-methyl Perfluorooctanesulfonate	<0.0000020	0.0000020	mg/L	0.89	258568	04/29/19 08:15	04/29/19 20:02	537	
Perfluorobutanesulfonic acid (PFBS)	<0.0000020	0.0000020	mg/L	0.89	258568	04/29/19 08:15	04/29/19 20:02	537	
Perfluorodecanoic acid (PFDA)	<0.0000020	0.0000020	mg/L	0.89	258568	04/29/19 08:15	04/29/19 20:02	537	
Perfluorododecanoic acid (PFDDA)	<0.0000020	0.0000020	mg/L	0.89	258568	04/29/19 08:15	04/29/19 20:02	537	
Perfluoroheptanoic acid (PFHpA)	<0.0000020	0.0000020	mg/L	0.89	258568	04/29/19 08:15	04/29/19 20:02	537	
Perfluorohexanesulfonic acid (PFHxS)	<0.0000020	0.0000020	mg/L	0.89	258568	04/29/19 08:15	04/29/19 20:02	537	
Perfluorohexanoic acid (PFHxA)	<0.0000020	0.0000020	mg/L	0.89	258568	04/29/19 08:15	04/29/19 20:02	537	
Perfluorononanoic acid (PFNA)	<0.0000020	0.0000020	mg/L	0.89	258568	04/29/19 08:15	04/29/19 20:02	537	
Perfluorooctanesulfonic acid (PFOS)	<0.0000020	0.0000020	mg/L	0.89	258568	04/29/19 08:15	04/29/19 20:02	537	
Perfluorooctanoic acid (PFOA)	<0.0000020	0.0000020	mg/L	0.89	258568	04/29/19 08:15	04/29/19 20:02	537	
Perfluorotetradecanoic acid (PFTrC)	<0.0000020	0.0000020	mg/L	0.89	258568	04/29/19 08:15	04/29/19 20:02	537	
Perfluorotridecanoic acid (PFTrC)	<0.0000020	0.0000020	mg/L	0.89	258568	04/29/19 08:15	04/29/19 20:02	537	
Perfluoroundecanoic acid (PFUnC)	<0.0000020	0.0000020	mg/L	0.89	258568	04/29/19 08:15	04/29/19 20:02	537	

EPCOR Water Arizona Inc.  
 11201 West Alabama  
 Youngtown, AZ 85363

Project: Agua Fria  
 Project Number: AF 2Q 04/2019 04-07-695  
 Project Manager: Kevin Figgins

Reported:  
 05/13/19 11:48

**AF9.4 (19D1961-02) Groundwater (Grab) Sampled: 04/16/19 13:55 Received: 04/16/19 14:51**

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
UL#AZ0432									
<b>537</b>									
Surrogate: SS-NEtFOSAA-d5		97 %		70-130		258568	04/29/19	04/29/19	537
Surrogate: SS-PFDA-13C2		103 %		70-130		258568	04/29/19	04/29/19	537
Surrogate: SS-PFHxA-13C2		104 %		70-130		258568	04/29/19	04/29/19	537

**AF9.3 (19D1961-03) Groundwater (Grab) Sampled: 04/16/19 14:10 Received: 04/16/19 14:51**

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Legend Technical Services of Arizona, Inc.									
<b>Total Metals</b>									
Arsenic	0.010	0.0010	mg/L	1	B9D1617	04/18/19 10:11	04/23/19 13:23	EPA 200.8	
<b>Inorganic Chemistry</b>									
Fluoride	0.73	0.10	mg/L	1	B9D1595	04/17/19 17:00	04/18/19 02:37	EPA 300.0	
Nitrate as N	23.3	0.10	mg/L	1	B9D1595	04/17/19 17:00	04/18/19 02:37	EPA 300.0	
Nitrite as N	<0.10	0.10	mg/L	1	B9D1595	04/17/19 17:00	04/18/19 02:37	EPA 300.0	

**AF9.4 (19D1961-04) Groundwater (Grab) Sampled: 04/16/19 13:55 Received: 04/16/19 14:51**

Analyte	Result	PQL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Legend Technical Services of Arizona, Inc.									
<b>Total Metals</b>									
Arsenic	0.0090	0.0010	mg/L	1	B9D1617	04/18/19 10:11	04/23/19 12:46	EPA 200.8	
<b>Inorganic Chemistry</b>									
Fluoride	0.66	0.10	mg/L	1	B9D1595	04/17/19 17:00	04/18/19 03:57	EPA 300.0	
Nitrate as N	22.0	0.10	mg/L	1	B9D1595	04/17/19 17:00	04/18/19 03:57	EPA 300.0	
Nitrite as N	<0.10	0.10	mg/L	1	B9D1595	04/17/19 17:00	04/18/19 03:57	EPA 300.0	

**Total Metals - Quality Control**  
**Legend Technical Services of Arizona, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9D1617 - EPA 200.8</b>										
<b>Blank (B9D1617-BLK1)</b> <span style="float:right">Prepared: 04/18/19 Analyzed: 04/23/19</span>										
Arsenic	<0.0010	0.0010	mg/L							
<b>LCS (B9D1617-BS1)</b> <span style="float:right">Prepared: 04/18/19 Analyzed: 04/23/19</span>										
Arsenic	0.024	0.0010	mg/L	0.0250		94	85-115			
<b>LCS Dup (B9D1617-BSD1)</b> <span style="float:right">Prepared: 04/18/19 Analyzed: 04/23/19</span>										
Arsenic	0.023	0.0010	mg/L	0.0250		93	85-115	1	20	
<b>Matrix Spike (B9D1617-MS1)</b> <span style="float:right">Prepared: 04/18/19 Analyzed: 04/23/19</span> Source: 19D1970-01										
Arsenic	0.029	0.0010	mg/L	0.0250	0.0043	100	70-130			
<b>Matrix Spike (B9D1617-MS2)</b> <span style="float:right">Prepared: 04/18/19 Analyzed: 04/23/19</span> Source: 19D2038-02										
Arsenic	0.027	0.0010	mg/L	0.0250	0.0035	95	70-130			
<b>Matrix Spike Dup (B9D1617-MSD1)</b> <span style="float:right">Prepared: 04/18/19 Analyzed: 04/23/19</span> Source: 19D1970-01										
Arsenic	0.029	0.0010	mg/L	0.0250	0.0043	100	70-130	0.03	20	
<b>Matrix Spike Dup (B9D1617-MSD2)</b> <span style="float:right">Prepared: 04/18/19 Analyzed: 04/23/19</span> Source: 19D2038-02										
Arsenic	0.028	0.0010	mg/L	0.0250	0.0035	97	70-130	2	20	

**Inorganic Chemistry - Quality Control**  
**Legend Technical Services of Arizona, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9D1595 - NO PREP</b>										
<b>Blank (B9D1595-BLK1)</b> <span style="float:right">Prepared &amp; Analyzed: 04/17/19</span>										
Fluoride	<0.10	0.10	mg/L							
Nitrate as N	<0.10	0.10	mg/L							
Nitrite as N	<0.10	0.10	mg/L							
<b>Blank (B9D1595-BLK2)</b> <span style="float:right">Prepared: 04/17/19 Analyzed: 04/18/19</span>										
Fluoride	<0.10	0.10	mg/L							
Nitrate as N	<0.10	0.10	mg/L							
Nitrite as N	<0.10	0.10	mg/L							
<b>Blank (B9D1595-BLK3)</b> <span style="float:right">Prepared: 04/17/19 Analyzed: 04/18/19</span>										
Fluoride	<0.10	0.10	mg/L							
Nitrate as N	<0.10	0.10	mg/L							
Nitrite as N	<0.10	0.10	mg/L							
<b>Blank (B9D1595-BLK4)</b> <span style="float:right">Prepared: 04/17/19 Analyzed: 04/18/19</span>										
Fluoride	<0.10	0.10	mg/L							
Nitrate as N	<0.10	0.10	mg/L							
Nitrite as N	<0.10	0.10	mg/L							
<b>Blank (B9D1595-BLK5)</b> <span style="float:right">Prepared: 04/17/19 Analyzed: 04/18/19</span>										
Fluoride	<0.10	0.10	mg/L							
Nitrate as N	<0.10	0.10	mg/L							
Nitrite as N	<0.10	0.10	mg/L							
<b>LCS (B9D1595-BS1)</b> <span style="float:right">Prepared &amp; Analyzed: 04/17/19</span>										
Fluoride	9.93	0.10	mg/L	10.0		99	90-110			
Nitrate as N	4.93	0.10	mg/L	5.00		99	90-110			
Nitrite as N	10.0	0.10	mg/L	10.0		100	90-110			

**Inorganic Chemistry - Quality Control**  
**Legend Technical Services of Arizona, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B9D1595 - NO PREP</b>										
<b>LCS Dup (B9D1595-BSD1)</b>				<i>Prepared &amp; Analyzed: 04/17/19</i>						
Fluoride	9.98	0.10	mg/L	10.0		100	90-110	0.5	20	
Nitrate as N	4.95	0.10	mg/L	5.00		99	90-110	0.5	20	
Nitrite as N	10.1	0.10	mg/L	10.0		101	90-110	0.6	20	
<b>Matrix Spike (B9D1595-MS1)</b>				<b>Source: 19D1924-01</b>		<i>Prepared &amp; Analyzed: 04/17/19</i>				
Fluoride	8.64	0.10	mg/L	10.0	0.04	86	90-110			M2
Nitrate as N	8.25	0.10	mg/L	5.00	3.36	98	90-110			
Nitrite as N	9.75	0.10	mg/L	10.0	0.02	97	90-110			
<b>Matrix Spike (B9D1595-MS2)</b>				<b>Source: 19D2014-02</b>		<i>Prepared: 04/17/19 Analyzed: 04/18/19</i>				
Fluoride	9.65	0.10	mg/L	10.0	0.13	95	90-110			
Nitrate as N	7.05	0.10	mg/L	5.00	2.37	93	90-110			
Nitrite as N	9.98	0.10	mg/L	10.0	0.04	99	90-110			
<b>Matrix Spike Dup (B9D1595-MSD1)</b>				<b>Source: 19D1924-01</b>		<i>Prepared &amp; Analyzed: 04/17/19</i>				
Fluoride	8.78	0.10	mg/L	10.0	0.04	87	90-110	2	20	M2
Nitrate as N	8.34	0.10	mg/L	5.00	3.36	100	90-110	1	20	
Nitrite as N	9.93	0.10	mg/L	10.0	0.02	99	90-110	2	20	
<b>Matrix Spike Dup (B9D1595-MSD2)</b>				<b>Source: 19D2014-02</b>		<i>Prepared: 04/17/19 Analyzed: 04/18/19</i>				
Fluoride	9.73	0.10	mg/L	10.0	0.13	96	90-110	0.9	20	
Nitrate as N	7.09	0.10	mg/L	5.00	2.37	94	90-110	0.6	20	
Nitrite as N	10.1	0.10	mg/L	10.0	0.04	100	90-110	0.9	20	

**537 - Quality Control**

**UL#AZ0432**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 258568 - SPE**

**Blank (4274747)**

*Prepared & Analyzed: 04/29/19*

ADONA	<0.0000020	0.0000020	mg/L				-			
F-53B Major	<0.0000020	0.0000020	mg/L				-			
F-53B Minor	<0.0000020	0.0000020	mg/L				-			
GenX	<0.000005	0.000005	mg/L				-			
N-ethyl	<0.0000020	0.0000020	mg/L				-			
Perfluorooctanesulfonamidoacetic acid N-methyl	<0.0000020	0.0000020	mg/L				-			
Perfluorooctanesulfonamidoacetic acid										
Perfluorobutanesulfonic acid (PFBS)	<0.0000020	0.0000020	mg/L				-			
Perfluorodecanoic acid (PFDA)	<0.0000020	0.0000020	mg/L				-			
Perfluorododecanoic acid (PFDoA)	<0.0000020	0.0000020	mg/L				-			
Perfluoroheptanoic acid (PFHpA)	<0.0000020	0.0000020	mg/L				-			
Perfluorohexanesulfonic acid (PFHxS)	<0.0000020	0.0000020	mg/L				-			
Perfluorohexanoic acid (PFHxA)	<0.0000020	0.0000020	mg/L				-			
Perfluorononanoic acid (PFNA)	<0.0000020	0.0000020	mg/L				-			
Perfluorooctanesulfonic acid (PFOS)	<0.0000020	0.0000020	mg/L				-			
Perfluorooctanoic acid (PFOA)	<0.0000020	0.0000020	mg/L				-			
Perfluorotetradecanoic acid (PFTeDA)	<0.0000020	0.0000020	mg/L				-			
Perfluorotridecanoic acid (PFTrDA)	<0.0000020	0.0000020	mg/L				-			
Perfluoroundecanoic acid (PFUnA)	<0.0000020	0.0000020	mg/L				-			

**LCS (4274748)**

*Prepared & Analyzed: 04/29/19*

ADONA	<0.0000020	0.0000020	mg/L	0.000002		81	50-150			
F-53B Major	<0.0000020	0.0000020	mg/L	0.000002		81	50-150			
F-53B Minor	<0.0000020	0.0000020	mg/L	0.000002		74	50-150			
GenX	<0.000005	0.000005	mg/L	0.000005		85	50-150			
N-ethyl	<0.0000020	0.0000020	mg/L	0.000002		96	50-150			
Perfluorooctanesulfonamidoacetic acid N-methyl	<0.0000020	0.0000020	mg/L	0.000002		82	50-150			
Perfluorooctanesulfonamidoacetic acid										
Perfluorobutanesulfonic acid (PFBS)	<0.0000020	0.0000020	mg/L	0.000002		78	50-150			
Perfluorodecanoic acid (PFDA)	<0.0000020	0.0000020	mg/L	0.000002		84	50-150			
Perfluorododecanoic acid (PFDoA)	<0.0000020	0.0000020	mg/L	0.000002		76	50-150			
Perfluoroheptanoic acid (PFHpA)	<0.0000020	0.0000020	mg/L	0.000002		81	50-150			
Perfluorohexanesulfonic acid (PFHxS)	<0.0000020	0.0000020	mg/L	0.000002		83	50-150			
Perfluorohexanoic acid (PFHxA)	<0.0000020	0.0000020	mg/L	0.000002		90	50-150			
Perfluorononanoic acid (PFNA)	<0.0000020	0.0000020	mg/L	0.000002		83	50-150			
Perfluorooctanesulfonic acid (PFOS)	<0.0000020	0.0000020	mg/L	0.000002		88	50-150			
Perfluorooctanoic acid (PFOA)	<0.0000020	0.0000020	mg/L	0.000002		84	50-150			
Perfluorotetradecanoic acid (PFTeDA)	<0.0000020	0.0000020	mg/L	0.000002		79	50-150			
Perfluorotridecanoic acid (PFTrDA)	<0.0000020	0.0000020	mg/L	0.000002		76	50-150			
Perfluoroundecanoic acid (PFUnA)	<0.0000020	0.0000020	mg/L	0.000002		86	50-150			



537 - Quality Control

UL#AZ0432

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 258568 - SPE

Matrix Spike (4274749)

Source: 4264627

Prepared & Analyzed: 04/29/19

ADONA	<0.0000020	0.0000020	mg/L	0.000002	< MRL	83	50-150			
F-53B Major	<0.0000020	0.0000020	mg/L	0.000002	< MRL	80	50-150			
F-53B Minor	<0.0000020	0.0000020	mg/L	0.000002	< MRL	75	50-150			
GenX	<0.0000005	0.0000005	mg/L	0.000005	< MRL	92	50-150			
N-ethyl	0.0000038	0.0000020	mg/L	0.000002	2.1373	85	50-150			
Perfluorooctanesulfonamidoacetic acid N-methyl	<0.0000020	0.0000020	mg/L	0.000002	< MRL	78	50-150			
Perfluorobutanesulfonic acid (PFBS)	0.000019	0.0000020	mg/L	0.000002	15.4196	158	50-150			
Perfluorodecanoic acid (PFDA)	0.0000038	0.0000020	mg/L	0.000002	< MRL	188	50-150			
Perfluorododecanoic acid (PFDoA)	<0.0000020	0.0000020	mg/L	0.000002	< MRL	82	50-150			
Perfluoroheptanoic acid (PFHpA)	0.0000084	0.0000020	mg/L	0.000002	6.2600	106	50-150			
Perfluorohexanesulfonic acid (PFHxS)	0.000023	0.0000020	mg/L	0.000002	19.5278	176	50-150			
Perfluorohexanoic acid (PFHxA)	0.000018	0.0000020	mg/L	0.000002	14.8313	159	50-150			
Perfluorononanoic acid (PFNA)	0.0000050	0.0000020	mg/L	0.000002	3.0477	96	50-150			
Perfluorooctanesulfonic acid (PFOS)	0.000069	0.0000020	mg/L	0.000002	59.8515	446	50-150			
Perfluorooctanoic acid (PFOA)	0.000025	0.0000020	mg/L	0.000002	21.0233	193	50-150			
Perfluorotetradecanoic acid (PFTeDA)	<0.0000020	0.0000020	mg/L	0.000002	< MRL	75	50-150			
Perfluorotridecanoic acid (PFTrDA)	<0.0000020	0.0000020	mg/L	0.000002	< MRL	79	50-150			
Perfluoroundecanoic acid (PFUnA)	<0.0000020	0.0000020	mg/L	0.000002	< MRL	87	50-150			

Reference (4274788)

Prepared & Analyzed: 04/29/19

ADONA	<0.0000020	0.0000020	mg/L	0.000002		90	50-150			
F-53B Major	<0.0000020	0.0000020	mg/L	0.000002		88	50-150			
F-53B Minor	<0.0000020	0.0000020	mg/L	0.000002		92	50-150			
GenX	<0.0000005	0.0000005	mg/L	0.000005		88	50-150			
N-ethyl	0.0000022	0.0000020	mg/L	0.000002		110	50-150			
Perfluorooctanesulfonamidoacetic acid N-methyl	0.0000020	0.0000020	mg/L	0.000002		101	50-150			
Perfluorobutanesulfonic acid (PFBS)	<0.0000020	0.0000020	mg/L	0.000002		83	50-150			
Perfluorodecanoic acid (PFDA)	<0.0000020	0.0000020	mg/L	0.000002		88	50-150			
Perfluorododecanoic acid (PFDoA)	<0.0000020	0.0000020	mg/L	0.000002		91	50-150			
Perfluoroheptanoic acid (PFHpA)	<0.0000020	0.0000020	mg/L	0.000002		89	50-150			
Perfluorohexanesulfonic acid (PFHxS)	<0.0000020	0.0000020	mg/L	0.000002		91	50-150			
Perfluorohexanoic acid (PFHxA)	<0.0000020	0.0000020	mg/L	0.000002		87	50-150			
Perfluorononanoic acid (PFNA)	<0.0000020	0.0000020	mg/L	0.000002		90	50-150			
Perfluorooctanesulfonic acid (PFOS)	<0.0000020	0.0000020	mg/L	0.000002		89	50-150			
Perfluorooctanoic acid (PFOA)	<0.0000020	0.0000020	mg/L	0.000002		86	50-150			
Perfluorotetradecanoic acid (PFTeDA)	<0.0000020	0.0000020	mg/L	0.000002		95	50-150			
Perfluorotridecanoic acid (PFTrDA)	<0.0000020	0.0000020	mg/L	0.000002		89	50-150			
Perfluoroundecanoic acid (PFUnA)	<0.0000020	0.0000020	mg/L	0.000002		95	50-150			

**537 - Quality Control**

**UL#AZ0432**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 258568 - SPE**

**Reference (4274789)**

*Prepared & Analyzed: 04/29/19*

ADONA	0.00011	0.0000020	mg/L	0.0001		110	70-130			
F-53B Major	0.00011	0.0000020	mg/L	0.0001		108	70-130			
F-53B Minor	0.00010	0.0000020	mg/L	0.0001		103	70-130			
GenX	0.00026	0.000005	mg/L	0.00025		106	70-130			
N-ethyl	0.00010	0.0000020	mg/L	0.0001		104	70-130			
Perfluorooctanesulfonamidoacetic acid										
N-methyl	0.00010	0.0000020	mg/L	0.0001		103	70-130			
Perfluorooctanesulfonamidoacetic acid										
Perfluorobutanesulfonic acid (PFBS)	0.000094	0.0000020	mg/L	0.0001		94	70-130			
Perfluorodecanoic acid (PFDA)	0.000098	0.0000020	mg/L	0.0001		98	70-130			
Perfluorododecanoic acid (PFDoA)	0.000096	0.0000020	mg/L	0.0001		96	70-130			
Perfluoroheptanoic acid (PFHpA)	0.00010	0.0000020	mg/L	0.0001		101	70-130			
Perfluorohexanesulfonic acid (PFHxS)	0.00010	0.0000020	mg/L	0.0001		100	70-130			
Perfluorohexanoic acid (PFHxA)	0.00010	0.0000020	mg/L	0.0001		100	70-130			
Perfluorononanoic acid (PFNA)	0.00010	0.0000020	mg/L	0.0001		100	70-130			
Perfluorooctanesulfonic acid (PFOS)	0.00010	0.0000020	mg/L	0.0001		100	70-130			
Perfluorooctanoic acid (PFOA)	0.00010	0.0000020	mg/L	0.0001		100	70-130			
Perfluorotetradecanoic acid (PFTeDA)	0.000093	0.0000020	mg/L	0.0001		93	70-130			
Perfluorotridecanoic acid (PFTrDA)	0.000094	0.0000020	mg/L	0.0001		94	70-130			
Perfluoroundecanoic acid (PFUnA)	0.000097	0.0000020	mg/L	0.0001		97	70-130			

**Reference (4274790)**

*Prepared: 04/29/19 Analyzed: 04/30/19*

ADONA	0.00020	0.0000020	mg/L	0.0002		100	70-130			
F-53B Major	0.00021	0.0000020	mg/L	0.0002		105	70-130			
F-53B Minor	0.00020	0.0000020	mg/L	0.0002		102	70-130			
GenX	0.00052	0.000005	mg/L	0.0005		104	70-130			
N-ethyl	0.00020	0.0000020	mg/L	0.0002		102	70-130			
Perfluorooctanesulfonamidoacetic acid										
N-methyl	0.00021	0.0000020	mg/L	0.0002		104	70-130			
Perfluorooctanesulfonamidoacetic acid										
Perfluorobutanesulfonic acid (PFBS)	0.00021	0.0000020	mg/L	0.0002		106	70-130			
Perfluorodecanoic acid (PFDA)	0.00021	0.0000020	mg/L	0.0002		105	70-130			
Perfluorododecanoic acid (PFDoA)	0.00021	0.0000020	mg/L	0.0002		103	70-130			
Perfluoroheptanoic acid (PFHpA)	0.00021	0.0000020	mg/L	0.0002		104	70-130			
Perfluorohexanesulfonic acid (PFHxS)	0.00020	0.0000020	mg/L	0.0002		102	70-130			
Perfluorohexanoic acid (PFHxA)	0.00021	0.0000020	mg/L	0.0002		107	70-130			
Perfluorononanoic acid (PFNA)	0.00021	0.0000020	mg/L	0.0002		104	70-130			
Perfluorooctanesulfonic acid (PFOS)	0.00021	0.0000020	mg/L	0.0002		104	70-130			
Perfluorooctanoic acid (PFOA)	0.00021	0.0000020	mg/L	0.0002		103	70-130			
Perfluorotetradecanoic acid (PFTeDA)	0.00020	0.0000020	mg/L	0.0002		102	70-130			
Perfluorotridecanoic acid (PFTrDA)	0.00021	0.0000020	mg/L	0.0002		103	70-130			
Perfluoroundecanoic acid (PFUnA)	0.00021	0.0000020	mg/L	0.0002		103	70-130			

### Notes and Definitions

M2 Matrix spike recovery was low; the associated blank spike recovery was acceptable.

BLK Method Blank

LCS/Dup Laboratory Control Sample/Laboratory Fortified Blank/Duplicate

MS/Dup Matrix Spike/Duplicate

Dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

EPCOR Water Arizona Inc.  
11201 West Alabama  
Youngtown, AZ 85363

Project: Agua Fria  
Project Number: AF 2Q 04/2019 04-07-695  
Project Manager: Kevin Figgins

Reported:  
05/13/19 11:48

Legend Technical Services of Arizona, Inc.



**SUBCONTRACT ORDER**  
**19D1961**

PO Number: 19D1961

**SENDING LABORATORY:**

Legend Technical Services of Arizona, Inc.  
17631 North 25th Avenue  
Phoenix, AZ 85023  
Phone: 602-324-6100  
Fax: 602-324-6101  
Project Manager: Barbara Frank

**RECEIVING LABORATORY:**

Eurofins Eaton Analytical, Inc.  
110 S. Hill Street  
South Bend, IN 46617  
Phone : (800) 332-4345  
Fax: (574) 233-8207

Analysis	Due	Expires	Sample Type <small>circle one</small>	Sample Comments
Sample ID: 19D1961-01	Water	Sampled: 04/16/19 14:10	Grab Composite	N/A
537- PFC18-EXT (Subcontra 04/25/19 15:00 04/30/19 14:10)				
Containers Supplied: [blank] (A) [blank] (B)				
Sample ID: 19D1961-02	Water	Sampled: 04/16/19 13:55	Grab Composite	N/A
537- PFC18-EXT (Subcontra 04/25/19 15:00 04/30/19 13:55)				
Containers Supplied: [blank] (A) [blank] (B)				

Released By (Print & Sign) [Signature] Date 4/17/19 Time 1630 x UPS Date 4/17/19 Time 1630  
Released By (Print & Sign) X Date \_\_\_\_\_ Time \_\_\_\_\_ Received By (Print & Sign) \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Legend  
 Technical Services, Inc.

**CHAIN OF CUSTODY RECORD**  
 17631 N. 25th Ave. AZ 85023  
 (602) 324 -6100, FAX (602) 324-6101

Laboratory Sample No.  
 19D1961

CLIENT INFORMATION												
Client Name Epcor water AZ inc		Address 8700 N. El Mirage		City El Mirage	State AZ	Zip 85335	Phone 623.780.3788	Fax kfiggins@epcor.com				
Project Name AF 2Q 04/2019		Project Number 04-07-695		Contact Kevin Figgins		P.O. No.	Fax result [ ] QC Report [ ] Special Detection Limits [ ] Email result [X] & email chain					
SAMPLE TYPE CODE		TURN AROUND TIME		Requested Analysis								
DW=Drinking Water S=Soil/Solid WW=Waste Water T=Travel Blank SW=Surface Water F=Food GW=Ground Water G=Sludge O=Other <i>SW</i>		<input checked="" type="checkbox"/> Standard 10 - 15 Days <input type="checkbox"/> Other _____ Laboratory Authorization Required for Rush		Composite	Grab	Sample Type	Compliance	No. of Containers	pH (Lab Use Only)	537.1/PFC21-Hst	As, No2/No3, F	Lab. No.
AF9.3	4/16/19	1410		X	GW	N	2					
AF9.4		1355		X	GW	N	2					01
AF9.3		1410		X	GW	Y	3					02
AF9.4		1355		X	GW	Y	3					03
												04

TO ENSURE COMPLETION OF ANALYSIS, SAMPLES MUST BE RECEIVED AT LEAST 3 HOURS PRIOR TO THE HOLD TIME EXPIRATION.

Comments / Special Instructions: \_\_\_\_\_

SAMPLE CONDITION UPON RECEIPT	
Number of Containers	10
Temperature	21°C
Custody Seals	Y N
Seals Intact	Y N
Preserved	(Y) N

RELINQUISHED BY		SAMPLE RECEIVED BY	
(1) Sampler Signature	Date 4/16/19	Signature	Date 4/16/19
Sampler Printed Name	Time 4:51	Printed Name	Time 4:51
(2) Sampler Signature	Date / /	Signature	Date / /
Sampler Printed Name	Time :	Printed Name	Time :
(3) Sampler Signature	Date / /	Signature	Date / /
Sampler Printed Name	Time :	Printed Name	Time :