



8725 Fawn Trail The Woodlands, TX 77385

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TCEQ Lab ID #: TX204, Accreditation ID: T104704238

December 28, 2018

PWS_TX1700555_AC_20181030_WQP Analysis Report

LABORATORY REPORT

Scott Foltz
Aqua TX
2211 Louetta Road
Spring, TX 77388

RE: Cimarron Country - WQP

The following test results meet all NELAP requirements for analytes for which certification is available. Any deviations from our quality system will be noted in the case narrative. All analyses performed by North Water District Laboratory Services, Inc. unless noted. These analytical results related to the sample(s) tested. This report may not be reproduced or duplicated except in full without written approval of NWDLS.

For questions regarding this report, contact Monica Martin at 936-321-6060.

Sincerely,

Ruth Wills For Monica O. Martin
Director of Laboratory Services



8725 Fawn Trail The Woodlands, TX 77385

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PWS_TX1700555_AC_20181030_WQP Analysis Report

Aqua TX
2211 Louetta Road
Spring, TX 77388

Project: **Cimarron Country - WQP**
PWS TX ID: 1700555
Project Manager: Scott Foltz

Reported:
12/28/2018 11:28

Laboratory Sample Results

Lab Sample ID	18K0551-01	Sample Matrix	Drinking Water
Facility ID	DS01	Sampled	10/30/2018 09:38
Sample Point ID	DSTWQP	Collected by	Tanya Allen
Sample Location	9303 Deer Lodge	Received	10/30/2018 16:14
Sample Type	Grab		

Method	Analyte	Result	Units	DF	MRL	Batch	Analyzed	Analyst	DQ
EPA 200.7	Calcium	27.7	mg/L	1	1.02	BBL1083	12/14/2018 18:17	RB	
EPA 200.7	Iron	0.161	mg/L	1	0.0305	BBL1083	12/14/2018 18:18	RB	
EPA 200.7	Magnesium	6.50	mg/L	1	1.02	BBL1083	12/14/2018 18:17	RB	
EPA 200.7	Manganese	0.0107	mg/L	1	0.00508	BBL1083	12/14/2018 18:18	RB	
EPA 200.7	Sodium	82.7	mg/L	1	4.06	BBL1083	12/14/2018 18:18	RB	
SM 2340 B	Hardness	95.8	mg/L	1	6.75	[CALC]	12/14/2018 18:17	RB	
SM 2320 B	Alkalinity as CaCO3	150	mg/L	1	10.0	BBL0687	10/31/2018 10:20	NS	
EPA 300.0	Chloride	53.3	mg/L	1	0.400	BBL0196	10/31/2018 15:59	JNS	
SM 2510 B	Conductivity	471	umhos/cm @ 25 °C	1	1.00	BBL0933	10/31/2018 13:10	NS	
EPA 300.0	Orthophosphate as P	0.315	mg/L	1	0.100	BBL0196	10/31/2018 15:59	JNS	
EPA 300.0	Sulfate	15.5	mg/L	1	0.400	BBL0196	10/31/2018 15:59	JNS	
SM 2540 C	Residue-filterable (TDS)	335	mg/L	1	10.0	BBL1010	11/06/2018 15:27	AKA	
SM 4500-H+ B	pH	7.00	pH Units @ 25 °C	1	1.00	BBK0608	10/30/2018 09:38	TA	
SM 2550 B	Temperature °C	22.5	°C	1	1.00	BBK0608	10/30/2018 09:38	TA	



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Aqua TX 2211 Louetta Road Spring, TX 77388	Project: Cimarron Country - WQP PWS TX ID: 1700555 Project Manager: Scott Foltz	Reported: 12/28/2018 11:28
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Laboratory Sample Results (Continued)

Lab Sample ID	18K0551-02	Sample Matrix	Drinking Water
Facility ID	DS01	Sampled	10/30/2018 09:29
Sample Point ID	DSTWQP	Collected by	Tanya Allen
Sample Location	40111 Otero	Received	10/30/2018 16:14
Sample Type	Grab		

Method	Analyte	Result	Units	DF	MRL	Batch	Analyzed	Analyst	DQ
EPA 200.7	Calcium	28.7	mg/L	1	1.02	BBK0773	11/19/2018 16:57	RB	
EPA 200.7	Iron	0.626	mg/L	1	0.0305	BBK0773	11/19/2018 16:58	RB	
EPA 200.7	Magnesium	6.94	mg/L	1	1.02	BBK0773	11/19/2018 16:57	RB	
EPA 200.7	Manganese	0.0312	mg/L	1	0.00508	BBK0773	11/19/2018 16:58	RB	
EPA 200.7	Sodium	89.0	mg/L	1	4.06	BBK0773	11/19/2018 16:57	RB	
SM 2340 B	Hardness	100	mg/L	1	6.75	[CALC]	11/19/2018 16:57	RB	
SM 2320 B	Alkalinity as CaCO ₃	159	mg/L	1	10.0	BBL0687	10/31/2018 10:20	NS	
EPA 300.0	Chloride	58.8	mg/L	1	0.400	BBL0196	10/31/2018 16:19	JNS	
SM 2510 B	Conductivity	501	umhos/cm @ 25 °C	1	1.00	BBL0933	10/31/2018 13:10	NS	
EPA 300.0	Orthophosphate as P	0.289	mg/L	1	0.100	BBL0196	10/31/2018 16:19	JNS	
EPA 300.0	Sulfate	17.7	mg/L	1	0.400	BBL0196	10/31/2018 16:19	JNS	
SM 2540 C	Residue-filterable (TDS)	328	mg/L	1	10.0	BBL1012	11/06/2018 09:57	AKA	
SM 4500-H+ B	pH	6.99	pH Units @ 25 °C	1	1.00	BBK0608	10/30/2018 09:29	TA	
SM 2550 B	Temperature °C	21.7	°C	1	1.00	BBK0608	10/30/2018 09:29	TA	



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Aqua TX 2211 Louetta Road Spring, TX 77388	Project: Cimarron Country - WQP PWS TX ID: 1700555 Project Manager: Scott Foltz	Reported: 12/28/2018 11:28
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Laboratory Sample Results (Continued)

Lab Sample ID	18K0551-03	Sample Matrix	Drinking Water
Facility ID	PBCU001	Sampled	10/30/2018 08:59
Sample Point ID	EWQP	Collected by	Tanya Allen
Sample Location	9007 Deer Lodge	Received	10/30/2018 16:14
Sample Type	Grab		

Method	Analyte	Result	Units	DF	MRL	Batch	Analyzed	Analyst	DQ
EPA 200.7	Calcium	20.4	mg/L	1	1.02	BBL1083	12/14/2018 17:56	RB	
EPA 200.7	Iron	0.0734	mg/L	1	0.0305	BBL1083	12/14/2018 17:57	RB	
EPA 200.7	Magnesium	3.81	mg/L	1	1.02	BBL1083	12/14/2018 17:56	RB	
EPA 200.7	Manganese	<0.00508	mg/L	1	0.00508	BBL1083	12/14/2018 17:57	RB	
EPA 200.7	Sodium	45.5	mg/L	1	4.06	BBL1083	12/14/2018 17:56	RB	
SM 2340 B	Hardness	66.7	mg/L	1	6.75	[CALC]	12/14/2018 17:56	RB	
SM 2320 B	Alkalinity as CaCO3	125	mg/L	1	10.0	BBL0687	10/31/2018 10:20	NS	
EPA 300.0	Chloride	35.5	mg/L	1	0.400	BBL0196	10/31/2018 16:39	JNS	
SM 2510 B	Conductivity	321	umhos/cm @ 25 °C	1	1.00	BBL0933	10/31/2018 13:10	NS	
EPA 300.0	Orthophosphate as P	0.437	mg/L	1	0.100	BBL0196	10/31/2018 16:39	JNS	
EPA 300.0	Sulfate	7.35	mg/L	1	0.400	BBL0196	10/31/2018 16:39	JNS	
SM 2540 C	Residue-filterable (TDS)	207	mg/L	1	10.0	BBL1007	11/09/2018 08:42	AKA	
SM 4500-H+ B	pH	6.97	pH Units @ 25 °C	1	1.00	BBK0608	10/30/2018 08:59	TA	
SM 2550 B	Temperature °C	21.9	°C	1	1.00	BBK0608	10/30/2018 08:59	TA	

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Aqua TX
2211 Louetta Road
Spring, TX 77388

Project: **Cimarron Country - WQP**
PWS TX ID: 1700555
Project Manager: Scott Foltz

Reported:
12/28/2018 11:28

Quality Control**Metals, Total**

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBK0773 - Direct Analysis 200.7										
Blank (BBK0773-BLK1)					Prepared & Analyzed: 11/19/2018					
Calcium	<1.02		1.02	mg/L						
Iron	<0.0305		0.0305	mg/L						
Magnesium	<1.02		1.02	mg/L						
Manganese	<0.00508		0.00508	mg/L						
Sodium	<4.06		4.06	mg/L						
LCS (BBK0773-BS1)					Prepared & Analyzed: 11/19/2018					
Calcium	52.7		1.02	mg/L	50.0		105	85-115		
Iron	1.58		0.0305	mg/L	1.50		105	85-115		
Magnesium	52.5		1.02	mg/L	50.0		105	85-115		
Manganese	0.258		0.00508	mg/L	0.250		103	85-115		
Sodium	106		4.06	mg/L	100		106	85-115		
Duplicate (BBK0773-DUP1)					Source: 18K0785-04 Prepared & Analyzed: 11/19/2018					
Calcium	20.9		1.02	mg/L		21.2			1.15	20
Iron	0.241		0.0305	mg/L		0.245			1.52	20
Magnesium	5.48		1.02	mg/L		5.54			1.16	20
Manganese	0.00781		0.00508	mg/L		0.00800			2.46	20
Sodium	108		4.06	mg/L		111			3.07	20
Duplicate (BBK0773-DUP2)					Source: 18K0633-01 Prepared & Analyzed: 11/19/2018					
Calcium	14.3		1.02	mg/L		14.2			1.13	20
Iron	<0.0305		0.0305	mg/L		<0.0305				20
Magnesium	2.02		1.02	mg/L		1.99			1.27	20
Manganese	<0.00508		0.00508	mg/L		<0.00508				20
Sodium	30.5		4.06	mg/L		29.7			2.45	20
MRL Check (BBK0773-MRL1)					Prepared: 11/19/2018 Analyzed: 12/18/2018					
Calcium	1.04		1.00	mg/L	1.00		104	70-130		
Iron	0.0345		0.0300	mg/L	0.0300		115	70-130		
Magnesium	1.04		1.00	mg/L	1.00		104	70-130		

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2211 Louetta Road
Spring, TX 77388

Project: **Cimarron Country - WQP**
PWS TX ID: 1700555
Project Manager: Scott Foltz

Reported:
12/28/2018 11:28

**Quality Control
(Continued)****Metals, Total (Continued)**

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit
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Batch: BBK0773 - Direct Analysis 200.7 (Continued)**MRL Check (BBK0773-MRL2)**

Prepared: 11/19/2018 Analyzed: 12/20/2018

Manganese	0.00982		0.00500	mg/L	0.0100		98.2	70-130
Sodium	3.58		4.00	mg/L	4.00		89.5	70-130

Matrix Spike (BBK0773-MS1)

Source: 18K0785-04

Prepared & Analyzed: 11/19/2018

Calcium	74.4		1.05	mg/L	51.3	21.2	104	75-125
Iron	1.84		0.0313	mg/L	1.54	0.245	103	75-125
Magnesium	59.8		1.05	mg/L	51.3	5.54	106	75-125
Manganese	0.271		0.00521	mg/L	0.256	0.00800	103	75-125
Sodium	241	11	20.8	mg/L	103	111	126	75-125

Matrix Spike (BBK0773-MS2)

Source: 18K0633-01

Prepared & Analyzed: 11/19/2018

Calcium	66.5		1.05	mg/L	51.3	14.2	102	75-125
Iron	1.57		0.0313	mg/L	1.54	<0.0313	102	75-125
Magnesium	55.1		1.05	mg/L	51.3	1.99	104	75-125
Manganese	0.258		0.00521	mg/L	0.256	<0.00521	101	75-125
Sodium	139		4.16	mg/L	103	29.7	107	75-125

Batch: BBL1083 - Direct Analysis 200.7**Blank (BBL1083-BLK1)**

Prepared & Analyzed: 12/14/2018

Calcium	<1.02		1.02	mg/L
Iron	<0.0305		0.0305	mg/L
Magnesium	<1.02		1.02	mg/L
Manganese	<0.00508		0.00508	mg/L
Sodium	<4.06		4.06	mg/L

Blank (BBL1083-BLK2)

Prepared & Analyzed: 12/14/2018

Calcium	<1.02		1.02	mg/L
Iron	<0.0305		0.0305	mg/L
Magnesium	<1.02		1.02	mg/L
Manganese	<0.00508		0.00508	mg/L
Sodium	<4.06		4.06	mg/L



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Aqua TX 2211 Louetta Road Spring, TX 77388	Project: Cimarron Country - WQP PWS TX ID: 1700555 Project Manager: Scott Foltz	Reported: 12/28/2018 11:28
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Quality Control (Continued)

Metals, Total (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BBL1083 - Direct Analysis 200.7 (Continued)

LCS (BBL1083-BS1)

Prepared & Analyzed: 12/14/2018

Calcium	52.0		1.02	mg/L	50.0		104	85-115		
Iron	1.58		0.0305	mg/L	1.50		105	85-115		
Magnesium	51.4		1.02	mg/L	50.0		103	85-115		
Manganese	0.260		0.00508	mg/L	0.250		104	85-115		
Sodium	104		4.06	mg/L	100		104	85-115		

LCS (BBL1083-BS2)

Prepared & Analyzed: 12/14/2018

Calcium	50.0		1.02	mg/L	50.0		100	85-115		
Iron	1.53		0.0305	mg/L	1.50		102	85-115		
Magnesium	49.7		1.02	mg/L	50.0		99.3	85-115		
Manganese	0.249		0.00508	mg/L	0.250		99.5	85-115		
Sodium	105		4.06	mg/L	100		105	85-115		

Duplicate (BBL1083-DUP1)

Source: 18K0503-03

Prepared & Analyzed: 12/14/2018

Calcium	<1.02		1.02	mg/L	<1.02					20
Iron	<0.0305		0.0305	mg/L	<0.0305					20
Magnesium	<1.02		1.02	mg/L	<1.02					20
Manganese	<0.00508		0.00508	mg/L	<0.00508					20
Sodium	189		4.06	mg/L	187				1.22	20

Duplicate (BBL1083-DUP2)

Source: 18K0920-02

Prepared & Analyzed: 12/14/2018

Calcium	20.1		1.02	mg/L	20.3				0.648	20
Iron	0.0379		0.0305	mg/L	0.0379				0.127	20
Magnesium	6.13		1.02	mg/L	6.14				0.140	20
Manganese	0.0388		0.00508	mg/L	0.0380				1.93	20
Sodium	203		4.06	mg/L	203				0.125	20

Duplicate (BBL1083-DUP3)

Source: 18K0844-02

Prepared & Analyzed: 12/14/2018

Calcium	24.3		1.02	mg/L	24.3				0.185	20
Iron	<0.0305		0.0305	mg/L	<0.0305					20
Magnesium	2.08		1.02	mg/L	2.08				0.211	20
Manganese	<0.00508		0.00508	mg/L	<0.00508					20
Sodium	21.0		4.06	mg/L	21.2				0.546	20



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Aqua.TX
 2211 Louetta Road
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Project: **Cimarron Country - WQP**
 PWS TX ID: 1700555
 Project Manager: Scott Foltz

Reported:
 12/28/2018 11:28

Quality Control (Continued)

Metals, Total (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BBL1083 - Direct Analysis 200.7 (Continued)

MRL Check (BBL1083-MRL1)

Prepared: 12/14/2018 Analyzed: 12/18/2018

Calcium	1.05		1.00	mg/L	1.00		105	70-130		
Iron	0.0327		0.0300	mg/L	0.0300		109	70-130		
Magnesium	1.07		1.00	mg/L	1.00		107	70-130		

MRL Check (BBL1083-MRL2)

Prepared: 12/14/2018 Analyzed: 12/19/2018

Manganese	0.00982		0.00500	mg/L	0.0100		98.2	70-130		
Sodium	4.43		4.00	mg/L	4.00		111	70-130		

Matrix Spike (BBL1083-MS1)

Source: 18K0503-03

Prepared & Analyzed: 12/14/2018

Calcium	52.4		1.02	mg/L	50.0	<1.02	105	70-130		
Iron	1.60		0.0305	mg/L	1.50	<0.0305	107	70-130		
Magnesium	51.7		1.02	mg/L	50.0	<1.02	103	70-130		
Manganese	0.263		0.00508	mg/L	0.250	<0.00508	105	70-130		
Sodium	288		20.3	mg/L	100	187	101	70-130		

Matrix Spike (BBL1083-MS2)

Source: 18K0920-02

Prepared & Analyzed: 12/14/2018

Calcium	70.9		1.02	mg/L	50.0	20.3	101	70-130		
Iron	1.56		0.0305	mg/L	1.50	0.0379	102	70-130		
Magnesium	56.4		1.02	mg/L	50.0	6.14	101	70-130		
Manganese	0.290		0.00508	mg/L	0.250	0.0380	101	70-130		
Sodium	317		20.3	mg/L	100	203	114	70-130		

Matrix Spike (BBL1083-MS3)

Source: 18K0844-02

Prepared & Analyzed: 12/14/2018

Calcium	75.7		1.02	mg/L	50.0	24.3	103	70-130		
Iron	1.55		0.0305	mg/L	1.50	<0.0305	103	70-130		
Magnesium	53.2		1.02	mg/L	50.0	2.08	102	70-130		
Manganese	0.252		0.00508	mg/L	0.250	<0.00508	101	70-130		
Sodium	127		4.06	mg/L	100	21.2	106	70-130		



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Quality Control
(Continued)**General Chemistry**

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBL0196 - EPA 300.0										
Blank (BBL0196-BLK1)					Prepared & Analyzed: 10/31/2018					
Chloride	<0.400		0.400	mg/L						
Sulfate	<0.400		0.400	mg/L						
Orthophosphate as P	<0.100		0.100	mg/L						
Blank (BBL0196-BLK2)					Prepared & Analyzed: 10/31/2018					
Sulfate	<0.400		0.400	mg/L						
Chloride	<0.400		0.400	mg/L						
Orthophosphate as P	<0.100		0.100	mg/L						
Blank (BBL0196-BLK3)					Prepared & Analyzed: 11/01/2018					
Chloride	<0.400		0.400	mg/L						
Sulfate	<0.400		0.400	mg/L						
Orthophosphate as P	<0.100		0.100	mg/L						
LCS (BBL0196-BS1)					Prepared & Analyzed: 10/31/2018					
Chloride	39.8		0.400	mg/L	40.0		99.5	90-110		
Sulfate	39.7		0.400	mg/L	40.0		99.3	90-110		
Orthophosphate as P	9.78		0.100	mg/L	10.0		97.8	90-110		
LCS (BBL0196-BS2)					Prepared & Analyzed: 10/31/2018					
Chloride	40.0		0.400	mg/L	40.0		100	90-110		
Sulfate	39.9		0.400	mg/L	40.0		99.8	90-110		
Orthophosphate as P	10.0		0.100	mg/L	10.0		100	90-110		
LCS (BBL0196-BS3)					Prepared & Analyzed: 11/01/2018					
Sulfate	39.8		0.400	mg/L	40.0		99.4	90-110		
Chloride	39.9		0.400	mg/L	40.0		99.8	90-110		
Orthophosphate as P	9.80		0.100	mg/L	10.0		98.0	90-110		



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Project: **Cimarron Country - WQP**
PWS TX ID: 1700555
Project Manager: Scott Foltz

Reported:
12/28/2018 11:28

Quality Control (Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBL0196 - EPA 300.0 (Continued)										
Duplicate (BBL0196-DUP1)			Source: 18K0751-09		Prepared & Analyzed: 10/31/2018					
Chloride	33.0		0.400	mg/L		33.0			0.118	15
Sulfate	7.36		0.400	mg/L		7.36			0.0679	15
Orthophosphate as P	0.394		0.100	mg/L		0.415			5.19	15
Duplicate (BBL0196-DUP2)			Source: 18K0608-02		Prepared & Analyzed: 10/31/2018					
Chloride	35.0		0.400	mg/L		35.0			0.0228	15
Sulfate	10.7		0.400	mg/L		10.7			0.0748	15
Orthophosphate as P	0.240		0.100	mg/L		0.259			7.62	15
Matrix Spike (BBL0196-MS1)			Source: 18K0751-09		Prepared & Analyzed: 10/31/2018					
Sulfate	54.7		0.500	mg/L	50.0	7.36	94.7	80-120		
Chloride	85.2		0.500	mg/L	50.0	33.0	105	80-120		
Orthophosphate as P	12.1		0.125	mg/L	12.5	0.415	93.9	80-120		
Matrix Spike (BBL0196-MS2)			Source: 18K0608-02		Prepared & Analyzed: 10/31/2018					
Chloride	90.2		0.500	mg/L	50.0	35.0	110	80-120		
Sulfate	62.0		0.500	mg/L	50.0	10.7	103	80-120		
Orthophosphate as P	12.8		0.125	mg/L	12.5	0.259	100	80-120		
Batch: BBL0687 - Alkalinity										
LCS (BBL0687-BS1)					Prepared & Analyzed: 10/31/2018					
Alkalinity as CaCO ₃	98.0			mg/L	100		98.0	90-110		
Duplicate (BBL0687-DUP1)			Source: 18K0543-03		Prepared & Analyzed: 10/31/2018					
Alkalinity as CaCO ₃	236		10.0	mg/L		235			0.425	15

**PWS_TX1700555_AC_20181030_WQP Analysis Report**

Aqua TX 2211 Louetta Road Spring, TX 77388	Project: Cimarron Country - WQP PWS TX ID: 1700555 Project Manager: Scott Foltz	Reported: 12/28/2018 11:28
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**Quality Control
(Continued)****General Chemistry (Continued)**

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBL0687 - Alkalinity (Continued)										
Duplicate (BBL0687-DUP2)		Source: 18K0551-02		Prepared & Analyzed: 10/31/2018						
Alkalinity as CaCO ₃	160		10.0	mg/L		159			0.627	15
Batch: BBL0933 - Conductivity										
Blank (BBL0933-BLK1)		Prepared & Analyzed: 10/31/2018								
Conductivity	<1.00		1.00	umhos/cm @ 25 °C						
LCS (BBL0933-BS1)		Prepared & Analyzed: 10/31/2018								
Conductivity	1430			umhos/cm @ 25 °C	1410		101	90-110		
Duplicate (BBL0933-DUP1)		Source: 18K0503-01		Prepared & Analyzed: 10/31/2018						
Conductivity	769		1.00	umhos/cm @ 25 °C		768			0.130	15
Duplicate (BBL0933-DUP2)		Source: 18K0093-01		Prepared & Analyzed: 10/31/2018						
Conductivity	608		1.00	umhos/cm @ 25 °C		608			0.00	15
Batch: BBL1007 - TDS										
Blank (BBL1007-BLK1)		Prepared: 11/06/2018 Analyzed: 11/09/2018								
Residue-filterable (TDS)	<10.0		10.0	mg/L						
LCS (BBL1007-BS1)		Prepared: 11/06/2018 Analyzed: 11/09/2018								
Residue-filterable (TDS)	150		10.0	mg/L	150		100	90-110		
Duplicate (BBL1007-DUP1)		Source: 18K0614-01		Prepared: 11/06/2018 Analyzed: 11/09/2018						
Residue-filterable (TDS)	373		10.0	mg/L		375			0.535	10



PWS_TX1700555_AC_20181030_WQP Analysis Report

Aqua TX
2211 Louetta Road
Spring, TX 77388

Project: **Cimarron Country - WQP**
PWS TX ID: 1700555
Project Manager: Scott Foltz

Reported:
12/28/2018 11:28

Quality Control (Continued)

General Chemistry (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BBL1007 - TDS (Continued)										
Duplicate (BBL1007-DUP2)		Source: 18K0751-16		Prepared: 11/06/2018 Analyzed: 11/09/2018						
Residue-filterable (TDS)	309		10.0	mg/L		319			3.18	10
Batch: BBL1010 - TDS										
Blank (BBL1010-BLK1)				Prepared: 11/02/2018 Analyzed: 11/06/2018						
Residue-filterable (TDS)	<10.0		10.0	mg/L						
LCS (BBL1010-BS1)				Prepared: 11/02/2018 Analyzed: 11/06/2018						
Residue-filterable (TDS)	150		10.0	mg/L	150		100	90-110		
Duplicate (BBL1010-DUP1)		Source: 18K0751-09		Prepared: 11/02/2018 Analyzed: 11/06/2018						
Residue-filterable (TDS)	558		10.0	mg/L		566			1.42	10
Duplicate (BBL1010-DUP2)		Source: 18K0759-02		Prepared: 11/02/2018 Analyzed: 11/06/2018						
Residue-filterable (TDS)	476		10.0	mg/L		474			0.421	10
Batch: BBL1012 - TDS										
Blank (BBL1012-BLK1)				Prepared: 11/01/2018 Analyzed: 11/06/2018						
Residue-filterable (TDS)	<10.0		10.0	mg/L						
LCS (BBL1012-BS1)				Prepared: 11/01/2018 Analyzed: 11/06/2018						
Residue-filterable (TDS)	146		10.0	mg/L	150		97.3	90-110		
Duplicate (BBL1012-DUP1)		Source: 18K0751-11		Prepared: 11/01/2018 Analyzed: 11/06/2018						
Residue-filterable (TDS)	494		10.0	mg/L		495			0.202	10



8725 Fawn Trail The Woodlands, TX 77385

Tel: (936) 321-6060 | Fax: (936) 321-6061

Email: lab@nwdls.com

www.NWDLS.com

TCEQ Lab ID #: TX204, Accreditation ID: T104704238

PWS_TX1700555_AC_20181030_WQP Analysis Report

Aqua TX
2211 Louetta Road
Spring, TX 77388

Project: **Cimarron Country - WQP**
PWS TX ID: 1700555
Project Manager: Scott Foltz

Reported:
12/28/2018 11:28

Term and Qualifier Definitions

Item	Definition
DF	Dilution Factor - the factor applied to the reported data due to sample preparation, dilution, or moisture content
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated
MRL	Minimum Reporting Limits (MRL) are equivalent to the lowest non-zero calibration standard in a multi-point calibration curve, as applicable
DQ	Data Qualifier

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER QUALITY PARAMETER MONITORING FORM 206795

Completed by PWS (or Agent)

Completed by Laboratory

[illegible]



**North Water District
Laboratory Services, Inc.**
8725 Fawn Trail - The Woodlands, TX 77385
(936) 321-6060 - fax (936) 321-6061 - lab@nwdls.com

CHAIN OF CUSTODY RECORD

1790 - Cimarron County Potable

Site: 1790

Cimarron County Potable
Near FM 1488 & FM 2978

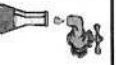
Customer: AQT

Aqua Texas
2211 Louetta Road
Spring, Texas 77388

NOTE: TX1700555

EP001 - 9007 Deer Lodge Rd
G1700555A - Deer Lodge Rd
G1700555B - 9001 Deer Lodge A

#	Sample ID	Collection Point	Date	Time	Sample Type	Container			Preserve	Hold	Requested Analysis & Remarks	Field Analysis Time
						Size	Type	Content				
1	5193-3810	DS01 - 9303 Deer Lodge	10/01/18	9:38	GRAB	1000mL	HDPE	Liquid	4°C	48H	ALK WQP/CL WQP/Cond WQP/OP-4-IC WQP/SC4 WQP/TDS WQP SM 2320 B EPA 300.0 SM 2540 C SM 2510 B	9303 Deer Lodge Rd Temperature Field 22.5
2	5193-3811	DS01 - 9303 Deer Lodge	10/01/18	9:38	GRAB	1000mL	HDPE	Liquid	HNO3	180D	Ca WQP/FE WOP/HARD CALC WQP/MN WQP/Mg WQP/NA WQP EPA 200.7 SM 2540 B	901 - 9303 Deer Lodge Rd pH Field WOP 7.02
3	5193-3812	DS01 - 9303 Deer Lodge	10/01/18	9:38	GRAB	250mL	HDPE	Liquid	H2SO4 4°C	28D	Phos SM 4500-P-E	501 - 40111 Otero Temperature Field WOP 22.4
4	5193-3813	DS01 - 40111 Otero	10/01/18	9:29	GRAB	1000mL	HDPE	Liquid	4°C	48H	ALK WQP/CL WQP/Cond WQP/OP-4-IC WQP/SC4 WQP/TDS WQP SM 2320 B EPA 300.0 SM 2540 C SM 2510 B	DS01 - 40111 Otero pH Field WOP 6.99
5	5193-3814	DS01 - 40111 Otero	10/01/18	9:29	GRAB	1000mL	HDPE	Liquid	HNO3	180D	Ca WQP/FE WOP/HARD CALC WQP/MN WQP/Mg WQP/NA WQP EPA 200.7 SM 2540 B	EP001 Temperature Field WOP 21.7
6	5193-3815	DS01 - 40111 Otero	10/01/18	9:29	GRAB	250mL	HDPE	Liquid	H2SO4 4°C	28D	Phos SM 4500-P-E	EP001 pH Field WOP 6.84
7	5193-3801	EP001	10/01/18	9:20	GRAB	1000mL	HDPE	Liquid	4°C	48H	ALK WQP/CL WQP/Cond WQP/OP-4-IC WQP/SC4 WQP/TDS WQP SM 2320 B EPA 300.0 SM 2540 C SM 2510 B	G1700555A Temperature Field WOP 21.8
8	5193-3802	EP001	10/01/18	9:20	GRAB	1000mL	HDPE	Liquid	HNO3	180D	Ca WQP/FE WOP/HARD CALC WQP/MN WQP/Mg WQP/NA WQP EPA 200.7 SM 2540 B	G1700555A pH Field WOP 6.93
9	5193-3803	EP001	10/01/18	9:20	GRAB	250mL	HDPE	Liquid	H2SO4 4°C	28D	Phos SM 4500-P-E	G1700555B Temperature Field WOP 21.8
10	5193-3804	G1700555A	10/01/18	9:10	GRAB	1000mL	HDPE	Liquid	4°C	48H	ALK WQP/CL WQP/Cond WQP/OP-4-IC WQP/SC4 WQP/TDS WQP SM 2320 B EPA 300.0 SM 2540 C SM 2510 B	G1700555B pH Field WOP 6.85
11	5193-3805	G1700555A	10/01/18	9:10	GRAB	1000mL	HDPE	Liquid	HNO3	180D	Ca WQP/FE WOP/HARD CALC WQP/MN WQP/Mg WQP/NA WQP EPA 200.7 SM 2540 B	901 - 9007 Deer Lodge Temperature Field 21.9
12	5193-3806	G1700555A	10/01/18	9:10	GRAB	250mL	HDPE	Liquid	H2SO4 4°C	28D	Phos SM 4500-P-E	BCU001-9007 Deer Lodge pH Field WOP 6.97
13	5193-3807	G1700555B	10/01/18	9:10	GRAB	1000mL	HDPE	Liquid	4°C	48H	ALK WQP/CL WQP/Cond WQP/OP-4-IC WQP/SC4 WQP/TDS WQP SM 2320 B EPA 300.0 SM 2540 C SM 2510 B	Collected By (if different than sampler)
14	5193-3808	G1700555B	10/01/18	9:10	GRAB	1000mL	HDPE	Liquid	HNO3	180D	Ca WQP/FE WOP/HARD CALC WQP/MN WQP/Mg WQP/NA WQP EPA 200.7 SM 2540 B	
15	5193-3809	G1700555B	10/01/18	9:10	GRAB	250mL	HDPE	Liquid	H2SO4 4°C	28D	Phos SM 4500-P-E	
16	5193-3816	PBCU001-90 07 Deer	10/01/18	8:59	GRAB	1000mL	HDPE	Liquid	4°C	48H	ALK WQP/CL WQP/Cond WQP/OP-4-IC WQP/SC4 WQP/TDS WQP SM 2320 B EPA 300.0 SM 2540 C SM 2510 B	
Sampler (Signature) <i>George Allen</i> Relinquished By (Signature) <i>George Allen</i> Print Name <i>George Allen</i> Relinquished By (Signature) <i>George Allen</i> Affiliation <i>N.W.D.L.S., Inc.</i> Relinquished To Laboratory By (Signature) <i>George Allen</i>												
Date: 10-30-18 Received By (Signature) <i>George Allen</i> Time: 16:14 Date: 10-30-18 Received For Laboratory By (Signature) <i>George Allen</i> Time: 16:14 Date: 10-30-18 Time: 16:14 Date: 10-30-18 Time: 16:14												
pH Meter Calibration Time: 17:45 Slope: 56.91 Buffers: 4 7 10 DO Meter 100% Air Calibration Time: Temp °C D.O.												


**North Water District
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CHAIN OF CUSTODY RECORD
1790 - Cimarron Country Potable

Site: 1790

 Cimarron Country Potable
 Near FM 1488 & FM 2978

Customer: AOT

 Aqua Texas
 2211 Louetta Road
 Spring, Texas 77388

NOTE: TX1700555

 EP001 - 9007 Deer Lodge Rd
 G1700555A - Deer Lodge Rd
 G1700555B - 9001 Deer Lodge A

#	Sample ID	Collection Point	Date	Time	Sample Type	Container			Preserve	Hold	Requested Analysis & Remarks	Field Analysis Time (if different than sampler)
						Size	Type	Content				
17	5193-3817	PBCU001-90 07 Deer	10/01/18	8:59	GRAB	1000mL	HDPE	Liquid	HNO3	180D	Ca WCP/FE WCP/HARD CALC WCP/MIN WCP/Mg WCP/NA WCP EPA 200.7 SM 2940 B	
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
32												

Sampler (Signature)		Relinquished By (Signature)		Received By (Signature)		Date: 10-30-18		pH Meter Calibration	
<i>Danya Allen</i>		<i>Danya Allen</i>		<i>[Signature]</i>		Time: 17:23		Time Slope Buffers	
Print Name: Danya Allen		Relinquished By (Signature)		Received By (Signature)		Date: 10-30-18		Time: 7:45 Slope: -56.91 Buffers: 4 7 10	
None None		Relinquished To Laboratory By (Signature)		Received For Laboratory By (Signature)		Date: 10-30-18		DO Meter 100% Air Calibration	
Affiliation: N.W.D.L.S., Inc.				<i>[Signature]</i>		Time: 10:30		Time Temp °C D.O.	