

Email information for report date:

1/18/18 14:41

A019521

Rice CISD

Attn: Douglas Behlen
dbehlen@ricecisid.org

1068 Raider Dr.
Altair, TX 77412

Happy New Year!

We at ATL appreciate your business and thank you for allowing us to partner in servicing your environmental needs.

Call or email us today at
samplingbryan@aqua-techlabs.com for more information or to set up an event.

Sincerely,
June M. Brien
Executive Technical Director

CORPORATE OFFICE
635 Phil Gramm Boulevard
Bryan, TX 77807
Phone: (979) 778-3707
Fax: (979) 778-3193



AUSTIN OFFICE
7500 Hwy 71 W, Suite 105
Austin, TX 78735
Phone: (512) 301-9559
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The analyses summarized in this report were performed by Aqua-Tech Laboratories, Inc. unless otherwise noted. Aqua-Tech Laboratories, Inc. holds accreditation from the State of Texas in accordance with TNI and/or through the TCEQ Drinking Water Commercial Laboratory Approval Program.

The following abbreviations indicate certification status:

- NEL TNI accredited parameter.
- ANR Accreditation not required by the State of Texas.
- DWP Accreditation through the TCEQ Drinking Water Commercial Laboratory Approval Program.
- INF Aqua-Tech Laboratories, Inc. is not accredited for this parameter. It is reported on an informational basis only.

Subcontracted data summarized in this report is indicated by "Sub" in the Lab column.

General Definitions:

- NR Not Reported.
- RPD Relative Percent Difference.
- % R Percent Recovery.
- dry Results with the "dry" unit designation are reported on a "dry weight" basis.
- SQL The Sample Quantitation Limit is the value below which the parameter cannot reliably be detected. The SQL includes all sample preparations, dilutions and / or concentrations.
- Adj MDL The Adjusted Method Detection Limit is the MDL value adjusted for any sample dilutions or concentrations .
- MDL The Method Detection Limit is the lowest theoretical value that is statistically different from zero for a specific method, taking into account all preparation steps and instrument settings.

All samples are reported on an "as received" basis unless the designation "dry" is added to the reported unit.

Copies of Aqua-Tech Laboratories, Inc. procedures and individual sampling plans are available upon request. Note that samples are collected by Aqua-Tech Laboratories, Inc. personnel unless otherwise noted in the "Sample Collected" field of this report as "Client" or "CLT".

Samples included in this report were received in acceptable condition according to Aqua-Tech Laboratories, Inc. procedures and 40 CFR, Chapter I, Subchapter D, Part 136.3, TABLE II. - *Required containers, preservation techniques, and holding times*, unless otherwise noted in this report.

Record Retention:

All reports, raw data, and associated quality control data are kept on file for 10 years before being destroyed. Any client that would like copies of records must contact Aqua-Tech Laboratories, Inc. no later than six months prior to the scheduled disposal. An administrative fee for retrieval and distribution will apply.



TCEQ DW Lab ID TX 239

This report was approved by:

A handwritten signature in black ink that reads 'June M. Brien'.

June M. Brien, Technical Director

The results in this report apply only to the samples analyzed. This analytical report must be reproduced in its entirety unless written permission is granted by Aqua-Tech Laboratories, Inc.

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Analytical Report

Rice CISD

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The following notes apply to Work Order **A019521**

REVISED: Original report generated on 10-7-17 (13:39). Revised to include missing hardness result.

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ADMINISTRATION BUILDING (DS01)

Collected: 09/05/17 09:51 by Nicholas Gomez
 Received: 09/05/17 16:33 by Collin O'Neill

Type
 Grab

Matrix
 Non Potable

C-O-C #
 N/A

Lab ID#	A019521-02	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
Field Parameters												
Field pH		7.6	Std Units		0.01	0.01	0.1	Bryan	At Collection	SM4500-H+ B 2000	M080545	DWP
Temperature		25.7	Deg. C		0.1	0.10	0.1	Bryan	At Collection	SM2550 B 2000	M080545	ANR
General Chemistry												
Total Dissolved Solids		496	mg/L	A-01	25.0	50.00	50.0	Bryan	09/06/17 09:31 BLR	SM2540 C 2011	M080521	NEL
Total Alkalinity as CaCO3 (pH4.5)		304	mg/L		4.00	16.00	16.0	Bryan	09/12/17 07:43 MRB	SM2320 B 2011	M080657	DWP
Total Hardness (EDTA) as CaCO3		171	mg/L		1.00	2.00	2.00	Bryan	09/11/17 10:00 AKS	SM2340 C 2011	M080639	NEL
Specific Conductance (adjusted to 25.0°C)		857	uS/cm		2.00	2.00	2.00	Bryan	09/12/17 13:11 JDS	SM2510 B 2011	M080673	DWP,NEL
Metals (Total)												
Calcium		41.4	mg/L		0.080	0.69	0.867	Bryan	09/25/17 13:51 MRG	EPA 200.7 R4.4	M080807	DWP
Iron		0.266	mg/L		0.007	0.01	0.010	Bryan	10/03/17 20:52 MRG	EPA 200.7 R4.4	M080814	NEL
Manganese		0.004	mg/L		0.001	0.00	0.001	Bryan	10/03/17 20:52 MRG	EPA 200.7 R4.4	M080814	NEL
Sodium		128	mg/L		0.024	0.21	0.867	Bryan	09/25/17 13:51 MRG	EPA 200.7 R4.4	M080807	NEL
General Chemistry												
Sulfate as SO4		23.7	mg/L		0.01		3	Sub	09/16/17 11:28 ANA	EPA 300.0 2.1	740229	NEL
Chloride		89.4	mg/L		0.01		3	Sub	09/16/17 11:28 ANA	EPA 300.0 2.1	740229	NEL

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WATER PLANT (EP001)

Collected: 09/05/17 10:02 by Nicholas Gomez
 Received: 09/05/17 16:33 by Collin O'Neill

Type
 Grab

Matrix
 Non Potable

C-O-C #
 N/A

Lab ID#	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
Field Parameters											
Field pH	7.7	Std Units		0.01	0.01	0.1	Bryan	At Collection	SM4500-H+ B 2000	M080545	DWP
Temperature	27.5	Deg. C		0.1	0.10	0.1	Bryan	At Collection	SM2550 B 2000	M080545	ANR
General Chemistry											
Total Dissolved Solids	476	mg/L	A-01	25.0	50.00	50.0	Bryan	09/06/17 09:31 BLR	SM2540 C 2011	M080521	NEL
Total Alkalinity as CaCO3 (pH4.5)	302	mg/L		4.00	16.00	16.0	Bryan	09/12/17 07:43 MRB	SM2320 B 2011	M080657	DWP
Total Hardness (EDTA) as CaCO3	171	mg/L		1.00	2.00	2.00	Bryan	09/11/17 10:00 AKS	SM2340 C 2011	M080639	NEL
Specific Conductance (adjusted to 25.0°C)	840	uS/cm		2.00	2.00	2.00	Bryan	09/12/17 13:11 JDS	SM2510 B 2011	M080673	DWP,NEL
Metals (Total)											
Calcium	41.1	mg/L		0.080	0.69	0.867	Bryan	09/25/17 13:45 MRG	EPA 200.7 R4.4	M080807	DWP
Iron	0.192	mg/L		0.007	0.01	0.010	Bryan	10/03/17 19:59 MRG	EPA 200.7 R4.4	M080813	NEL
Manganese	<0.010	mg/L	J (0.003)	0.001	0.00	0.010	Bryan	10/03/17 19:59 MRG	EPA 200.7 R4.4	M080813	NEL
Sodium	129	mg/L		0.024	0.21	0.867	Bryan	09/25/17 13:45 MRG	EPA 200.7 R4.4	M080807	NEL
General Chemistry											
Sulfate as SO4	22.9	mg/L		0.01		3	Sub	09/16/17 11:06 ANA	EPA 300.0 2.1	740229	NEL
Chloride	88.7	mg/L		0.01		3	Sub	09/16/17 11:06 ANA	EPA 300.0 2.1	740229	NEL

Explanation of Notes

- A-01 Optional standard was lower than typical control chart limits. Run accepted based on passing blanks, duplicates and sample history.
- J Analyte detected below the SQL but above the MDL.

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Field Parameters - Quality Control

Result	Units	Notes	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Field pH - SM4500-H+ B 2000 <i>Bryan</i>											
Duplicate	7.8	Std Units	0.1	09/06/17 17:09 NAG		7.8			0.00	1.19	M080545
Reference	6.9	Std Units	0.1	09/06/17 17:09 NAG	6.86		100	95 - 105			M080545
Reference	9.1	Std Units	0.1	09/06/17 17:09 NAG	9.18		99.6	95 - 105			M080545
Reference	6.9	Std Units	0.1	09/06/17 17:09 NAG	6.86		101	95 - 105			M080545
Reference	9.1	Std Units	0.1	09/06/17 17:09 NAG	9.18		99.2	95 - 105			M080545

Temperature - SM2550 B 2000 <i>Bryan</i>											
Duplicate	28.3	Deg. C	0.1	09/06/17 17:09 NAG		28.3			0.00	6.26	M080545

General Chemistry - Quality Control

Result	Units	Notes	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Specific Conductance (adjusted to 25.0°C) - SM2510 B 2011 <i>Bryan</i>											
Initial Cal Check	349	uS/cm		09/12/17 13:11 JDS	326		107	85 - 115			1709053
Blank	<2.00	uS/cm	2.00	09/12/17 13:11 JDS							M080673
Duplicate	827	uS/cm	2.00	09/12/17 13:11 JDS		810			2.08	3.84	M080673
LCS	1450	uS/cm	2.00	09/12/17 13:11 JDS	1410		103	90 - 110			M080673
LCS Dup	1460	uS/cm	2.00	09/12/17 13:11 JDS	1410		104	90 - 110	1.03	4.99	M080673

Sulfate - EPA 375.4 1978 <i>Bryan</i>											
Initial Cal Check	11.0	mg/L		07/18/17 08:45 MRB	10.0		110	80 - 120			1707087

Total Alkalinity as CaCO3 (pH4.5) - SM2320 B 2011 <i>Bryan</i>											
Duplicate	356	mg/L	16.0	09/12/17 07:43 MRB		356			0.00	6.16	M080657
LCS	84.0	mg/L	16.0	09/12/17 07:43 MRB	80.0		105	90.2 - 116			M080657
LCS Dup	84.0	mg/L	16.0	09/12/17 07:43 MRB	80.0		105	90.2 - 116	0.00	11.3	M080657
Initial Cal Check	6.88	mg/L		09/12/17 07:46 MRB	6.86		100	97 - 103			1709049
Initial Cal Check	9.11	mg/L		09/12/17 07:46 MRB	9.18		99.2	97 - 103			1709049

Total Dissolved Solids - SM2540 C 2011 <i>Bryan</i>											
Blank	<25.0	mg/L	25.0	09/06/17 09:31 BLR							M080521
Duplicate	888	mg/L	100	09/06/17 09:31 BLR		892			0.449	14.9	M080521
Reference	<33.3	mg/L	33.3	09/06/17 09:31 BLR	50.1			77 - 126			M080521

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General Chemistry - Quality Control

Result	Units	Notes	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Total Hardness (EDTA) as CaCO3 - SM2340 C 2011											
<i>Bryan</i>											
Blank	<1.00	mg/L	1.00	09/11/17 10:00 AKS							M080639
Duplicate	171	mg/L	2.00	09/11/17 10:00 AKS		171			0.00	11	M080639
LCS	100	mg/L	1.00	09/11/17 10:00 AKS	100		100	90 - 110			M080639
Matrix Spike	377	mg/L	2.00	09/11/17 10:00 AKS	200	171	103	78.2 - 119			M080639

Metals (Total) - Quality Control

Result	Units	Notes	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Calcium - EPA 200.7 R4.4											
<i>Bryan</i>											
Blank	<0.087	mg/L	0.087	09/25/17 14:05 MRG							M080807
LCS	9.37	mg/L	0.088	09/25/17 14:08 MRG	10.0		93.7	84.5 - 115.4			M080807
LCS Dup	9.40	mg/L	0.088	09/25/17 14:12 MRG	10.0		94.0	84.5 - 115.4	0.311	20	M080807
Duplicate	13.8	mg/L	0.867	09/25/17 14:21 MRG		13.2			4.24	20	M080807
Matrix Spike	105	mg/L	0.878	09/25/17 14:25 MRG	100	13.2	92.3	69.5 - 130.4			M080807
Iron - EPA 200.7 R4.4											
<i>Bryan</i>											
Blank	<0.010	mg/L	0.010	10/03/17 18:33 MRG							M080813
LCS	1.09	mg/L	0.010	10/03/17 18:37 MRG	1.00		109	84.5 - 115.4			M080813
LCS Dup	1.14	mg/L	0.010	10/03/17 18:40 MRG	1.00		114	84.5 - 115.4	4.48	20	M080813
Duplicate	<0.010	mg/L	0.010	10/03/17 19:02 MRG		<0.010				20	M080813
Matrix Spike	0.971	mg/L	0.010	10/03/17 19:05 MRG	1.00	<0.010	97.1	69.5 - 130.4			M080813
Blank	<0.010	mg/L	0.010	10/03/17 20:02 MRG							M080814
LCS	1.05	mg/L	0.010	10/03/17 20:06 MRG	1.00		105	84.5 - 115.4			M080814
LCS Dup	1.05	mg/L	0.010	10/03/17 20:09 MRG	1.00		105	84.5 - 115.4	0.212	20	M080814
Duplicate	7.14	mg/L	0.010	10/03/17 20:13 MRG		7.15			0.217	20	M080814
Matrix Spike	7.96	mg/L	0.010	10/03/17 20:20 MRG	1.00	7.15	80.4	69.5 - 130.4			M080814

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Metals (Total) - Quality Control

Result	Units	Notes	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Manganese - EPA 200.7 R4.4											
<i>Bryan</i>											
Blank	<0.010	mg/L		J (0.002)	0.010	10/03/17 18:33 MRG					M080813
LCS	1.08	mg/L	0.010	10/03/17 18:37 MRG	1.00		108	84.5 - 115.4			M080813
LCS Dup	1.12	mg/L	0.010	10/03/17 18:40 MRG	1.00		112	84.5 - 115.4	3.88	20	M080813
Duplicate	<0.010	mg/L	0.010	10/03/17 19:02 MRG		<0.010				20	M080813
Matrix Spike	1.02	mg/L	0.010	10/03/17 19:05 MRG	1.00	<0.010	102	69.5 - 130.4			M080813
Blank	<0.001	mg/L	0.001	10/03/17 20:02 MRG							M080814
LCS	1.10	mg/L	0.001	10/03/17 20:06 MRG	1.00		110	84.5 - 115.4			M080814
LCS Dup	1.10	mg/L	0.001	10/03/17 20:09 MRG	1.00		110	84.5 - 115.4	0.306	20	M080814
Duplicate	5.13	mg/L	0.001	10/03/17 20:13 MRG		5.11			0.386	20	M080814
Matrix Spike	5.96	mg/L	0.001	10/03/17 20:20 MRG	1.00	5.11	85.5	69.5 - 130.4			M080814

Sodium - EPA 200.7 R4.4											
<i>Bryan</i>											
Blank	<0.087	mg/L		J (0.034)	0.087	09/25/17 14:05 MRG					M080807
LCS	9.82	mg/L	0.088	09/25/17 14:08 MRG	10.0		98.2	84.5 - 115.4			M080807
LCS Dup	9.61	mg/L	0.088	09/25/17 14:12 MRG	10.0		96.1	84.5 - 115.4	2.10	20	M080807
Duplicate	355	mg/L	0.867	09/25/17 14:21 MRG		345			2.84	20	M080807
Matrix Spike	422	mg/L	0.878	09/25/17 14:25 MRG	100	345	77.3	69.5 - 130.4			M080807

Preparation Procedures - Quality Control

Result	Units	Notes	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Turbidity - SM2130 B 2011											
<i>Bryan</i>											
Initial Cal Check	6.1	NTU		09/15/17 15:19 MCP	5.54		110	85 - 115			1709088

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Sample Preparation Summary

Sample	Method	Prepared	Lab	Bottle	Initial	Units	Final	Units	External Dilution Factor	Batch
A019521-01										
Calcium	EPA 200.7 R4.4	9/25/17 11:30 MRG	Bryan	C	1.00	mL	8.67	mL	1	M080807
Iron	EPA 200.7 R4.4	10/3/17 15:33 MRG	Bryan	C	10.0	mL	10.2	mL	1	M080813
Manganese	EPA 200.7 R4.4	10/3/17 15:33 MRG	Bryan	C	10.0	mL	10.2	mL	1	M080813
Sample Acidified to pH<2 in Lab	N/A	9/7/17 13:55 MRG	Bryan	C	1000	mL	1000	mL	1	M080571
Sodium	EPA 200.7 R4.4	9/25/17 11:30 MRG	Bryan	C	1.00	mL	8.67	mL	1	M080807
Specific Conductance (adjusted to 25.0°C)	SM2510 B 2011	9/12/17 13:11 JDS	Bryan	A	25.0	mL	25.0	mL	1	M080673
Total Alkalinity as CaCO ₃ (pH4.5)	SM2320 B 2011	9/12/17 7:43 MRB	Bryan	A	50.0	mL	200	mL	1	M080657
Total Dissolved Solids	SM2540 C 2011	9/6/17 9:31 BLR	Bryan	B	50.0	mL	100	mL	1	M080521
Total Hardness (EDTA) as CaCO ₃	SM2340 C 2011	9/11/17 10:00 JMB	Bryan	C	25.0	mL	50.0	mL	1	M080639
Turbidity	SM2130 B 2011	9/15/17 15:19 MCP	Bryan	C	10.0	mL	10.0	mL	1	M080793

See sub-contract reports for preparation information of subcontracted analyses.

A019521-02										
Calcium	EPA 200.7 R4.4	9/25/17 11:30 MRG	Bryan	C	1.00	mL	8.67	mL	1	M080807
Iron	EPA 200.7 R4.4	9/15/17 15:50 MRG	Bryan	C	10.0	mL	10.2	mL	1	M080814
Manganese	EPA 200.7 R4.4	9/15/17 15:50 MRG	Bryan	C	10.0	mL	10.2	mL	1	M080814
Sample Acidified to pH<2 in Lab	N/A	9/7/17 13:55 CRO	Bryan	C	1000	mL	1000	mL	1	M080571
Sodium	EPA 200.7 R4.4	9/25/17 11:30 MRG	Bryan	C	1.00	mL	8.67	mL	1	M080807
Specific Conductance (adjusted to 25.0°C)	SM2510 B 2011	9/12/17 13:11 JDS	Bryan	A	25.0	mL	25.0	mL	1	M080673
Total Alkalinity as CaCO ₃ (pH4.5)	SM2320 B 2011	9/12/17 7:43 MRB	Bryan	A	50.0	mL	200	mL	1	M080657
Total Dissolved Solids	SM2540 C 2011	9/6/17 9:31 BLR	Bryan	B	50.0	mL	100	mL	1	M080521
Total Hardness (EDTA) as CaCO ₃	SM2340 C 2011	9/11/17 10:00 JMB	Bryan	C	25.0	mL	50.0	mL	1	M080639
Turbidity	SM2130 B 2011	9/15/17 15:19 MCP	Bryan	C	10.0	mL	10.0	mL	1	M080793

See sub-contract reports for preparation information of subcontracted analyses.



WATER QUALITY PARAMETER CHAIN OF CUSTODY FORM 20679

Section I (PWS Information)								Section II (Completed by Laboratory)													
PWS Name: <u>Rice CISD</u> PWS ID #: <u>645-0006</u> PWS Contact Name: <u>Douglas Bowen</u> PWS Contact Number: <u>979-234-3531 x1038</u>				PWS Type: <input checked="" type="checkbox"/> Community <input type="checkbox"/> NTNC Population: <input checked="" type="checkbox"/> <50,000 <input type="checkbox"/> 50,001 to 100,000 <input type="checkbox"/> >100,000				Lab Name: <u>Aqua-Tech Laboratories, Inc.</u>													
<input checked="" type="checkbox"/> Compliance <input type="checkbox"/> Noncompliance <input type="checkbox"/> Tap Copper Exceedance <input type="checkbox"/> Tap Lead Exceedance				# DS Samples Required: <u>1</u> # DS Samples Submitted: <u>1</u> # EP Samples Required: <u>.....</u> # EP Samples Submitted: <u>.....</u>				Laboratory Address: <u>635 Phil Gramm Blvd. Bryan TX 77807</u>													
<input checked="" type="checkbox"/> Distribution System <input type="checkbox"/> Entry Point				Inhibitor or stabilizer used: <input checked="" type="checkbox"/> phosphate <input type="checkbox"/> calcium carbonate <input type="checkbox"/> silica				Lab Phone: (979) <u>778-3707</u>				Parameters Requested: *Analyses are required for the parameters checked. If inhibitors containing PO4 or silicate are used, then these parameters should also be tested depending on which is used.									
Source ID (e.g. DS01, EP001)	Sample Location	Sample Collection Date (MMDDYY)	Sample Collection Time (HHMM)	pH (1925)	pH method	Temp (°C) (1996)	Temp Method	Lab Sample ID	Alkalinity (1927)	Calcium (1919)	Chloride (1017)	Conductivity (1064)	Hardness (1915)	Iron (1028)	Manganese (1032)	Sodium (1052)	Sulfate (1055)	TDS (1930)	O-phosphate (1044)	Silica (1049)	
<u>DS001</u>	<u>ADMINISTRATION BUILDING</u>	<u>09/05/17</u>	<u>0951</u>	<u>7.60</u>	<u>SM 4500 H+B 2000</u>	<u>25.7</u>	<u>SM 2550 B 2000</u>	<u>A019521-02</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<u>NA <CRQ></u>																					
I acknowledge that the information on this form is true and correct and sites selected for sampling following TCEQ instructions including but not limited to the measurement of pH and temperature according to approved methods immediately upon collection (within 15 minutes)								Containers <input checked="" type="checkbox"/> 2-L plastic bottles <input checked="" type="checkbox"/> 1 L preserved upon receipt				Conditions Upon Receipt <input checked="" type="checkbox"/> Ice <input type="checkbox"/> Ambient <u>TR TC</u> Temp Upon Receipt: <u>3.6°C / 3.6°C</u> Corrected Temp Upon Receipt: Comments: <u>0718842</u>									
Name: <u>DOUGLAS BOWEN</u>		Signature: <u>[Signature]</u>		Date: <u>09-05-17</u>		Received By: (Name, Signature) <u>NA <CRQ></u>								Date: <u>9/5/17</u>		Time: <u>1633</u>					
Relinquished By (Name, Signature) <u>Nick Gomez</u> <u>[Signature]</u>								Received By: (Name, Signature) <u>collin O'Neil</u> <u>[Signature]</u>				Date: <u>9/5/17</u>		Time: <u>1633</u>							
(For TCEQ use only) <input type="checkbox"/> Disapproved <input type="checkbox"/> Accepted Comments:																					



WATER QUALITY PARAMETER CHAIN OF CUSTODY FORM 20679

Section I (PWS Information)								Section II (Completed by Laboratory)													
PWS Name: <u>Rice CSD</u> PWS ID #: <u>045-0006</u> PWS Contact Name: <u>Douglas Behlen</u> PWS Contact Number: <u>979-234-3531 x 1038</u>				PWS Type: <input checked="" type="checkbox"/> Community <input type="checkbox"/> NTNC Population: <input checked="" type="checkbox"/> <50,000 <input type="checkbox"/> 50,001 to 100,000 <input type="checkbox"/> >100,000				Lab Name: <u>Aqua-Tech Laboratories, Inc.</u>													
<input checked="" type="checkbox"/> Compliance <input type="checkbox"/> Noncompliance <input type="checkbox"/> Tap Copper Exceedance <input type="checkbox"/> Tap Lead Exceedance				# DS Samples Required: # DS Samples Submitted: # EP Samples Required: <u>1</u> # EP Samples Submitted: <u>1</u>				Laboratory Address: <u>635 Phil Gramm Blvd. Bryan TX 77807</u>													
<input type="checkbox"/> Distribution System <input checked="" type="checkbox"/> Entry Point				Inhibitor or stabilizer used: <input checked="" type="checkbox"/> phosphate <input type="checkbox"/> calcium carbonate <input type="checkbox"/> silica				Lab Phone: (979) <u>778-3707</u>				Parameters Requested: *Analyses are required for the parameters checked. If inhibitors containing PO4 or silicate are used, then these parameters should also be tested depending on which is used.									
Source ID (e.g. DS01, EP001)	Sample Location	Sample Collection Date (MMDDYY)	Sample Collection Time (HHMM)	pH (1925)	pH method	Temp (°C) (1996)	Temp Method	Lab Sample ID	Alkalinity (1927)	Calcium (1919)	Chloride (1017)	Conductivity (1064)	Hardness (1915)	Iron (1028)	Manganese (1032)	Sodium (1052)	Sulfate (1055)	TDS (1930)	O-phosphate (1044)	Silica (1049)	
<u>EP001</u>	<u>Water Plant</u>	<u>09/05/17</u>	<u>1002</u>	<u>7.72</u>	<u>SM 4500 #7B 2000</u>	<u>27.5</u>	<u>SM 2550 B 2000</u>	<u>A019521-01</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
N/A <CRB>																					
I acknowledge that the information on this form is true and correct and sites selected for sampling following TCEQ instructions including but not limited to the measurement of pH and temperature according to approved methods immediately upon collection (within 15 minutes)								Containers <input checked="" type="checkbox"/> 2-L plastic bottles <input checked="" type="checkbox"/> 1 L preserved upon receipt				Conditions Upon Receipt <input checked="" type="checkbox"/> Ice <input type="checkbox"/> Ambient Temp Upon Receipt: <u>3.6°C</u> Corrected Temp Upon Receipt: <u>3.6°C</u> Comments: <u>0718842</u>									
Name: <u>DOUGLAS BEHLEN</u>		Signature: <u>[Signature]</u>		Date: <u>09-05-17</u>																	
Relinquished By (Name, Signature): <u>Nick Gomez</u> <u>[Signature]</u>		Date: <u>9/5/17</u>		Time: <u>1633</u>		Received By: (Name, Signature): <u>Collin O'Neil</u> <u>[Signature]</u>				Date: <u>9/5/17</u>		Time: <u>1633</u>									
(For TCEQ use only) <input type="checkbox"/> Disapproved <input type="checkbox"/> Accepted Comments:																					



Phone 903/984-0551 e-Mail corp@ana-lab.com

LELAP-accredited #02008

Employee Owned Integrity

Caring

Continual Improvement

Printed 10/06/2017

Page 1 of 1

Report

Report To

Aqua-Tech Laboratories
John Brien
635 Phil Gramm Blvd.
Bryan, TX 77807-9104

Table of Contents

Account

AQU1 -G

Project

802034

Additional Testing

This report consists of this Table of Contents and the following pages:

Report Name	Description	Pages
802034_r03_03_ProjectResults	Ana-Lab Project P:802034 C:AQU1 Project Results	2
802034_r03_06_ProjectTRRP	Ana-Lab Project P:802034 C:AQU1 Project TRRP Results Report for Class	2
802034_r10_05_ProjectQC	Ana-Lab Project P:802034 C:AQU1 Project Quality Control Groups	1
802034_r99_09_CoC__1_of_1	Ana-Lab CoC AQU1 802034_1_of_1	5
Total Pages:		10



Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662



NELAP-accredited #T104704201



Results

Report To

Aqua-Tech Laboratories
 John Brien
 635 Phil Gramm Blvd.
 Bryan, TX 77807-9104

Additional Testing

Account
AQU1-G

Project
802034

Results

1627918	A019521-01							<i>Received:</i> 09/15/2017
Drinking Water	<i>Collected by:</i> Client	Aqua-Tech Laboratori						
	<i>Taken:</i> 09/05/2017 10:02:00							
Supplement to Test Report 1622544								
<i>EPA 300.0 2.1</i>		<i>Prepared:</i> 740229	09/16/2017	11:06:00	<i>Analyzed</i> 740229	09/16/2017	11:06:00	AMB
<i>Parameter</i>	<i>Results</i>	<i>Units</i>	<i>RL</i>		<i>Flags</i>	<i>CAS</i>	<i>Bottle</i>	
N Chloride	88.7	mg/L	3.00				01	
N Sulfate	22.9	mg/L	3.00				01	

1627919	A019521-02							<i>Received:</i> 09/15/2017
Drinking Water	<i>Collected by:</i> Client	Aqua-Tech Laboratori						
	<i>Taken:</i> 09/05/2017 09:51:00							
Supplement to Test Report 1622545								
<i>EPA 300.0 2.1</i>		<i>Prepared:</i> 740229	09/16/2017	11:28:00	<i>Analyzed</i> 740229	09/16/2017	11:28:00	AMB
<i>Parameter</i>	<i>Results</i>	<i>Units</i>	<i>RL</i>		<i>Flags</i>	<i>CAS</i>	<i>Bottle</i>	
N Chloride	89.4	mg/L	3.00				01	
N Sulfate	23.7	mg/L	3.00				01	

Sample Preparation

1627918	A019521-01							<i>Received:</i> 09/15/2017
<hr/>								
		<i>Prepared:</i> 739992	09/15/2017	00:00:00	<i>Analyzed</i> 739992	09/15/2017	00:00:00	CCP
Cooler Temperature	0.8		degrees				01	





Results

1627919 A019521-02

Received: 09/15/2017

Prepared: 10/06/2017 00:00:00 Analyzed 10/06/2017 00:00:00 TWV

z TCEQ WQP Form

See attached

Prepared: 739992 09/15/2017 00:00:00 Analyzed 739992 09/15/2017 00:00:00 CCP

Cooler Temperature 0.8 degrees 01

Qualifiers:

We report results on an 'As Received' or wet basis unless marked 'Dry Weight'. Unless otherwise noted, testing was performed at Ana-lab's corporate laboratory that holds the following Federal and State certificates: Texas Department of Health Lead Firm Certificate 2110076, US Department of Agriculture Soil Import Permit S-37592, Texas Commission on Environmental Quality Drinking Water Laboratory Certificate TX219, Texas Commission on Environmental Quality NELAP T104704201, Oklahoma Department of Environmental Quality Drinking Water Certification Lab ID# D9913, EPA Lab Number TX00063, USEPA Approved Perchlorate Testing Lab, Oklahoma Department of Environmental Quality Laboratory Certificate 8125, Arkansas Department of Environmental Quality Certification #03-070-0, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, LELAP) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) # LA030020, US Department of Energy Approved, State of Kansas Department of Health and Environment Waste Water and Solid/Hazardous Waste Cert. E-10365. The Accredited column designates accreditation by N -- NELAC, or z -- not covered under NELAC scope of accreditation.

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of Ana-Lab Corp. Unless otherwise specified, these test results meet the requirements of NELAC.

RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.

Tracey W Varvel, MS, Quality Manager





Results Summary

Project

802034

Report To

Aqua-Tech Laboratories
John Brien
635 Phil Gramm Blvd.
Bryan, TX 77807-9104

Additional Testing

CAS	Parameter	Results	MDL	SDL	MQL	MQLAdj	Flag	Units	Target	Bottle	Dilute
Drinking Water		Ion Chromatography				EPA 300.0 2.1					
1627918	A019521-01										
Supplement to Test Report 1622544		Collection:	09/05/2017		10:02:00	Client			Received:	09/15/2017	
Prepared: 740229											
	Chloride	88.7	0.0053	0.053	0.300	3.00		mg/L	250 Secondary Standard	01	10.00
	Sulfate	22.9	0.00775	0.0775	0.300	3.00		mg/L	250 Secondary Standard	01	10.00
1627919	A019521-02										
Supplement to Test Report 1622545		Collection:	09/05/2017		09:51:00	Client			Received:	09/15/2017	
Prepared: 740229											
	Chloride	89.4	0.0053	0.053	0.300	3.00		mg/L	250 Secondary Standard	01	10.00
	Sulfate	23.7	0.00775	0.0775	0.300	3.00		mg/L	250 Secondary Standard	01	10.00

MDL is Method Detection Limit (40 CFR 136 Appendix B)
MQL is the Method Quantitation Limit and corresponds to a low standard

SDL is Sample Detection Limit and is the adjusted MDL (sample specific dilutions, dry weight)
MQLADJ is the Adjusted Method Quantitation Limit (dilutions, dry weight)





Results Summary

Project

802034

Report To

Aqua-Tech Laboratories
John Brien
635 Phil Gramm Blvd.
Bryan, TX 77807-9104

Qualifiers:

Additional Testing

We report results on an 'As Received' or wet basis unless marked 'Dry Weight'. Unless otherwise noted, testing was performed at Ana-lab's corporate laboratory that holds the following Federal and State certificates: Texas Department of Health Lead Firm Certificate 2110076, US Department of Agriculture Soil Import Permit S-37592, Texas Commission on Environmental Quality Drinking Water Laboratory Certificate TX219, Texas Commission on Environmental Quality NELAP T104704201, Oklahoma Department of Environmental Quality Drinking Water Certification Lab ID# D9913, EPA Lab Number TX00063, USEPA Approved Perchlorate Testing Lab, Oklahoma Department of Environmental Quality Laboratory Certificate 8125, Arkansas Department of Environmental Quality Certification #03-070-0, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, LELAP) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) # LA030020, US Department of Energy Approved, State of Kansas Department of Health and Environment Waste Water and Solid/Hazardous Waste Cert. E-10365. The Accredited column designates accreditation by N -- NELAC, or z -- not covered under NELAC scope of accreditation.

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Tracey W Varvel, MS, Quality Manager





Quality Control

Printed 10/06/2017

Page 1 of 1

Report To

Aqua-Tech Laboratories
John Brien
635 Phil Gramm Blvd.
Bryan, TX 77807-9104

Additional Testing

Account
AQU1 -G

Project
802034

Analytical Set

740229

EPA 300.0 2.1

Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MDL</u>	<u>Units</u>		<u>File</u>
Chloride	740229	0.041	0.0053	0.300	mg/L	*	117986614
Sulfate	740229	0.151	0.00775	0.300	mg/L	*	117986614

CCV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Chloride	10.3	10.0	mg/L	103	90.0 - 110	117986611
	9.95	10.0	mg/L	99.5	90.0 - 110	117986622
	9.90	10.0	mg/L	99.0	90.0 - 110	117986636
Sulfate	10.3	10.0	mg/L	103	90.0 - 110	117986611
	10.1	10.0	mg/L	101	90.0 - 110	117986622
	9.96	10.0	mg/L	99.6	90.0 - 110	117986636

LCS Dup

<u>Parameter</u>	<u>PrepSet</u>	<u>LCS</u>	<u>LCSD</u>	<u>Known</u>	<u>Limits%</u>	<u>LCS%</u>	<u>LCSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Chloride	740229	5.01	4.89	5.00	85.0 - 110	100	97.8	mg/L	2.42	20.0
Sulfate	740229	5.24	5.11	5.00	88.0 - 110	105	102	mg/L	2.51	20.0

MSD

<u>Parameter</u>	<u>Sample</u>	<u>MS</u>	<u>MSD</u>	<u>UNK</u>	<u>Known</u>	<u>Limits</u>	<u>MS%</u>	<u>MSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Chloride	1622412	39.5	39.0	30.0	10.0	80.0 - 120	95.0	90.0	mg/L	5.41	20.0
Sulfate	1622412	116	116	106	10.0	80.0 - 120	100	100	mg/L	0	20.0
Chloride	1622478	175	176	169	10.0	80.0 - 120	60.0 *	70.0 *	mg/L	15.4	20.0
Sulfate	1622478	107	110	100	10.0	80.0 - 120	70.0 *	100	mg/L	35.3 *	20.0

* Out RPD is Relative Percent Difference: $\frac{\text{abs}(r1-r2)}{\text{mean}(r1,r2)} * 100\%$

Recover% is Recovery Percent: $\frac{\text{result}}{\text{known}} * 100\%$

Blank - Method Blank; CCV - Continuing Calibration Verification





ATL - Bryan Facility:
635 Phil Gramm Blvd.
Bryan, TX 77807
(979) 778-3707
Fax (979) 778-3183

ATL - Austin Facility:
7500 Hwy 71 W, Suite 105
Austin, TX 78735
(512) 301-9559
Fax (512) 301-9592

Chain-of-Custody & Analysis Request

SHIPPED TO:

Ana-Lab Corp. (NELAP Cert. T104704201)
2600 Dudley Road
Kilgore, TX 75662
Phone: (903) 984-0551
Fax: (903) 984-5914

C-O-C #

56 - A019521

T104704371



All analyses must be performed by a TNI approved method certified by the TCEQ. Contact ATL's sample custodian via voice and email if your methods do not meet this criteria.

Analysis Request for: **Sample ID: A019521-01** Sampled: 09/05/17 10:02 Matrix: Drinking Water Laboratory ID >> 1002544

Chloride - EPA 300.0 **Sample ID: A019521-02** Sampled: 09/05/17 09:51 Matrix: Drinking Water Laboratory ID >> 545

CONTAINERS SUPPLIED:

- () A019521-01 [D] - CL 0.25LP
[split from -01A]
- () A019521-02 [D] - CL 0.25LP
[split from -02A]

(ATL indicates cooler number in parentheses for each container - only required if more than one cooler listed below)

See next page(s) for list of analytes requested.

Relinquished by: (print & sign) <input type="checkbox"/> ATL-Austin <input checked="" type="checkbox"/> ATL-Bryan <input type="checkbox"/> Sampler		Date	Time	Sample Info	Abbreviations: DW - Drinking Water NP - Non-Potable Water S - Solid CTU - Custody Transfer Unbroken LG - Litter Glass
Carrier & Tracking Number: Collin O'Neill		9/14/17	15:11	<input checked="" type="checkbox"/> Iced <input checked="" type="checkbox"/> Custody Sealed <input type="checkbox"/> Not Chilled	
Cooler 1: Lone Star		Date	Time	Received In Lab	Aqua-Tech Comments and Special Instructions 5 DAY TAT D.A.C. 005057 <input type="checkbox"/> CF 006092 <input checked="" type="checkbox"/> CFO 006093 <input type="checkbox"/> CF 003688 <input type="checkbox"/> CF
Received by: (print & sign) <i>Debra Glezen</i>		9/15/17	1948	<input checked="" type="checkbox"/> Received In Lab <input type="checkbox"/> CTU <input type="checkbox"/> Condition Good <input type="checkbox"/> Not Rec'd In Lab	
Line below documents condition at receipt in lab (shipped to) listed above.		Please email reports to: reporting@aquatechlabs.com		Please return cooler(s) to: Bryan Facility	
Cooler Temperature (°C)	Temp. Read (TR)	Corrected Temp. (CT)	Thermometer ID		
Cooler 1					
N/A	N/A	N/A			

1
2
3
4
5

802034 CoC Print Group 001 of 001



ATL - Bryan Facility:
635 Phil Gramm Blvd.
Bryan, TX 77807
(979) 778-3707
Fax (979) 778-3193

ATL - Austin Facility:
7500 Hwy 71 W, Suite 105
Austin, TX 78735
(512) 301-9559
Fax (512) 301-9552

Chain-of-Custody & Analysis Request

C:\Program Files
(x86)\Promium\Element\Printseo_ATL_081017.rpt

C-O-C #

56 - A019521

T104704371



All analyses must be performed by a TNI approved method certified by the TCEQ. Contact ATL's sample custodian via voice and email if your methods do not meet this criteria.

Analytes Requested for Multiple Component Tests

A019521-01

Chloride EPA 300.0
Chloride

A019521-02

Chloride EPA 300.0
Chloride

3 of 5

802034 CoC Print Group 001 of 001

www.lso.com

Airbill No. ZV616378

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ANALAB
2600 DUDLEY RD
KILGORE, TX 75662
9039840551

O.V.C.

From:
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AQUA-TECH LABORATORIES
635 PHIL GRAMMM
BRYAN, TX 77807
9797783707




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END OF BUSINESS DAY DELIVERY

PRINT DATE: 9/12/2017
QUICKCODE: ANALAB
REF 1: 1D00V.0000

WEIGHT: 10.00LBS

Fold on above line and place shipping label in pouch on package. Please be sure the barcodes and addresses can be read and scanned.
Shipping Instructions

1. Fold this page along the horizontal line above.
2. Place this Airbill in the shipping label pouch on the package you are shipping. Please be sure the barcodes and addresses can be read and scanned.
3. To locate a drop box near you, click on **Find A Drop Box** from the home page main menu.
4. To schedule a pickup, click on **Request Pickup**.

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