

Email information for report date:

1/10/19 15:48

B033518

Hydro Resources

Attn: Aaron Marsh

PO Box 525

Dripping Springs, TX 78620

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

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Bryan, TX 77807
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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.

This report was approved by:

A handwritten signature in black ink that reads 'June M. Brien'. Below the signature is the printed name '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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TCEQ DW Lab ID TX 239

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EP001 WELLHOUSE (PBCU001)		Collected: 12/19/18 09:10 by CLIENT Received: 12/20/18 15:47 by Kelly Kukowski					Type Grab	Matrix Drinking Water		C-O-C # 290098	
Lab ID#	B033518-01	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch
General Chemistry											
Total Dissolved Solids	1280	mg/L			25.0	25.0	25.0	Bryan	12/21/18 11:20 AKS	SM2540 C 2011	M093405 NEL
Total Alkalinity as CaCO3 (pH4.5)	334	mg/L			5.00	20.0	20.0	Bryan	12/26/18 13:05 LAM	SM2320 B 2011	M093472 DWP
Total Hardness (EDTA) as CaCO3	520	mg/L			1.00	2.00	2.00	Bryan	01/02/19 10:32 LAM	SM2340 C 2011	M093690 NEL
Specific Conductance (adjusted to 25.0°C)	2060	uS/cm		C-02	2.00	3.33	3.33	Bryan	12/27/18 13:38 LAM	SM2510 B 2011	M093556 DWP,NEL
Metals (Total)											
Calcium	107	mg/L			0.023	0.235	1.02	Bryan	12/26/18 13:18 PNS	EPA 200.7 R4.4	M093483 DWP
Iron	1.34	mg/L			0.002	0.002	0.010	Bryan	12/26/18 14:03 PNS	EPA 200.7 R4.4	M093488 NEL
Manganese	0.010	mg/L			0.002	0.002	0.005	Bryan	12/26/18 14:03 PNS	EPA 200.7 R4.4	M093488 NEL
Sodium	230	mg/L			0.011	0.112	1.02	Bryan	12/26/18 13:18 PNS	EPA 200.7 R4.4	M093483 NEL
General Chemistry											
Sulfate as SO4	506	mg/L			0.01	30	30	Sub	12/26/18 08:57 ANA	EPA 300.0	SUB NEL
Chloride	137	mg/L			0.02		5	Sub	12/22/18 08:08 ANA	EPA 300.0	SUB NEL
BREAKROOM SINK (DS01)		Collected: 12/19/18 09:20 by CLIENT Received: 12/20/18 15:47 by Kelly Kukowski					Type Grab	Matrix Drinking Water		C-O-C # 290098	
Lab ID#	B033518-02	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch
General Chemistry											
Total Dissolved Solids	1280	mg/L			25.0	25.0	25.0	Bryan	12/21/18 11:20 AKS	SM2540 C 2011	M093405 NEL
Total Alkalinity as CaCO3 (pH4.5)	342	mg/L			5.00	20.0	20.0	Bryan	12/26/18 13:05 LAM	SM2320 B 2011	M093472 DWP
Total Hardness (EDTA) as CaCO3	540	mg/L			1.00	1.00	1.00	Bryan	01/09/19 08:01 LAM	SM2340 C 2011	M093708 NEL
Specific Conductance (adjusted to 25.0°C)	2020	uS/cm		C-02	2.00	3.33	3.33	Bryan	12/27/18 13:38 LAM	SM2510 B 2011	M093556 DWP,NEL
Metals (Total)											
Calcium	99.9	mg/L			0.023	0.230	1.00	Bryan	01/09/19 19:02 PNS	EPA 200.7 R4.4	M093783 DWP
Iron	1.52	mg/L			0.002	0.001	0.005	Bryan	01/09/19 19:40 PNS	EPA 200.7 R4.4	M093782 NEL
Manganese	0.009	mg/L			0.002	0.001	0.005	Bryan	01/09/19 19:40 PNS	EPA 200.7 R4.4	M093782 NEL
Sodium	234	mg/L			0.011	0.110	1.00	Bryan	01/09/19 19:02 PNS	EPA 200.7 R4.4	M093783 NEL
General Chemistry											
Sulfate as SO4	486	mg/L			0.01	30	30	Sub	12/26/18 09:22 ANA	EPA 300.0	SUB NEL
Chloride	137	mg/L			0.02		5	Sub	12/22/18 08:32 ANA	EPA 300.0	SUB NEL

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Explanation of Notes

C-02	Result confirmed by re-analysis.
J	Analyte detected below the SQL but above the MDL.

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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	572	uS/cm		12/27/18 13:38 LAM	563		102	85 - 115			1812178
Blank	<2.00	uS/cm	2.00	12/27/18 13:38 LAM							M093556
Duplicate	412	uS/cm	2.00	12/27/18 13:38 LAM		410			0.487	2.36	M093556
Duplicate	2040	uS/cm	3.33	12/27/18 13:38 LAM		2060			0.976	2.36	M093556
LCS	567	uS/cm	2.00	12/27/18 13:38 LAM	564		101	90 - 110			M093556
LCS Dup	564	uS/cm	2.00	12/27/18 13:38 LAM	564		100	90 - 110	0.530	10	M093556
Total Alkalinity as CaCO3 (pH4.5) - SM2320 B 2011											<i>Bryan</i>
Initial Cal Check	6.87	mg/L		12/26/18 13:05 LAM	6.86		100	97 - 103			1812154
Initial Cal Check	9.14	mg/L		12/26/18 13:05 LAM	9.18		99.6	97 - 103			1812154
Duplicate	<20.0	mg/L	20.00	12/26/18 13:05 LAM		<20.0				6.16	M093472
LCS	76.0	mg/L	20.00	12/26/18 13:05 LAM	80.6		94.3	90.2 - 116			M093472
LCS Dup	77.9	mg/L	20.00	12/26/18 13:05 LAM	80.6		96.7	90.2 - 116	2.47	11.3	M093472
MRL Check	19.0	mg/L	4.00	12/26/18 13:05 LAM	20.2		94.3	70 - 130			M093472
Total Dissolved Solids - SM2540 C 2011											<i>Bryan</i>
Blank	<25.0	mg/L	25.00	12/21/18 11:20 AKS							M093405
Duplicate	1210	mg/L	25.00	12/21/18 11:20 AKS		1280			5.64	14.9	M093405
Total Hardness (EDTA) as CaCO3 - SM2340 C 2011											<i>Bryan</i>
Initial Cal Check	20.0	mg/L		01/02/19 10:32 LAM	19.5		103	85 - 115			1901008
Blank	<1.00	mg/L	1.00	01/02/19 10:32 LAM							M093690
Duplicate	8.00	mg/L	2.00	01/02/19 10:32 LAM		8.00			0.00	8.9	M093690
LCS	98.0	mg/L	1.00	01/02/19 10:32 LAM	100		98.0	90 - 110			M093690
LCS Dup	100	mg/L	1.00	01/02/19 10:32 LAM	100		100	90 - 110	2.02	10	M093690
Matrix Spike	204	mg/L	2.00	01/02/19 10:32 LAM	200	8.00	98.0	81.6 - 118			M093690
MRL Check	4.00	mg/L	1.00	01/02/19 10:32 LAM	4.00		100	70 - 130			M093690
Initial Cal Check	20.0	mg/L		01/09/19 08:01 LAM	19.5		103	85 - 115			1901046
Blank	<1.00	mg/L	1.00	01/09/19 08:01 LAM							M093708
Duplicate	540	mg/L	1.00	01/09/19 08:01 LAM		540			0.00	8.9	M093708
LCS	100	mg/L	1.00	01/09/19 08:01 LAM				90 - 110			M093708
LCS Dup	100	mg/L	1.00	01/09/19 08:01 LAM				90 - 110		3.91	M093708
Matrix Spike	640	mg/L	1.00	01/09/19 08:01 LAM		540		81.6 - 118			M093708

Metals (Total) - Quality Control

Result	Units	Notes	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
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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	<0.050	mg/L	0.05	0.050	01/09/19 18:27 PNS						M093783	
LCS	4.88	mg/L	0.05	0.050	01/09/19 18:48 PNS	5.00	97.6	84.5 - 115.4			M093783	
LCS Dup	4.95	mg/L	0.05	0.050	01/09/19 18:51 PNS	5.00	98.9	84.5 - 115.4	1.34	20	M093783	
Duplicate	99.1	mg/L	1.00	1.00	01/09/19 18:55 PNS		99.9		0.711	20	M093783	
Matrix Spike	194	mg/L	1.00	1.00	01/09/19 18:59 PNS	100	99.9	94.1	69.5 - 130.4		M093783	
Blank	<0.102	mg/L	0.10	0.102	12/26/18 12:29 PNS						M093483	
LCS	10.2	mg/L	0.10	0.104	12/26/18 12:33 PNS	10.0	102	84.5 - 115.4			M093483	
LCS Dup	10.0	mg/L	0.10	0.104	12/26/18 12:36 PNS	10.0	100	84.5 - 115.4	1.28	20	M093483	
Duplicate	4.82	mg/L	1.02	1.02	12/26/18 12:40 PNS		4.67		3.05	20	M093483	
Matrix Spike	100	mg/L	1.04	1.04	12/26/18 12:57 PNS	100	4.67	95.8	69.5 - 130.4		M093483	
Iron - EPA 200.7 R4.4											<i>Bryan</i>	
Blank	<0.005	mg/L	0.01	0.005	01/09/19 19:06 PNS						M093782	
LCS	0.533	mg/L	0.01	0.005	01/09/19 19:10 PNS	0.500	107	84.5 - 115.4			M093782	
LCS Dup	0.506	mg/L	0.01	0.005	01/09/19 19:13 PNS	0.500	101	84.5 - 115.4	5.09	20	M093782	
Duplicate	1.51	mg/L	0.01	0.005	01/09/19 19:16 PNS		1.52		0.577	20	M093782	
Matrix Spike	2.11	mg/L	0.01	0.005	01/10/19 13:29 PNS	0.500	1.52	118	69.5 - 130.4		M093782	
Blank	<0.010	mg/L	0.01	0.010	12/26/18 13:26 PNS						M093488	
LCS	1.04	mg/L	0.01	0.010	12/26/18 13:29 PNS	1.00	104	84.5 - 115.4			M093488	
LCS Dup	0.977	mg/L	0.01	0.010	12/26/18 13:46 PNS	1.00	97.7	84.5 - 115.4	5.92	20	M093488	
Duplicate	0.033	mg/L	0.01	0.010	12/26/18 13:49 PNS		0.033		0.527	20	M093488	
Matrix Spike	0.945	mg/L	0.01	0.010	12/26/18 13:53 PNS	1.00	0.033	91.2	69.5 - 130.4		M093488	
Manganese - EPA 200.7 R4.4											<i>Bryan</i>	
Blank	<0.005	mg/L	<i>J (0.003)</i>	0.01	0.005	01/09/19 19:06 PNS					M093782	
LCS	0.515	mg/L		0.01	0.005	01/09/19 19:10 PNS	0.500	103	84.5 - 115.4		M093782	
LCS Dup	0.512	mg/L		0.01	0.005	01/09/19 19:13 PNS	0.500	102	84.5 - 115.4	0.671	20	M093782
Duplicate	0.009	mg/L		0.01	0.005	01/09/19 19:16 PNS		0.009	0.308	20	M093782	
Matrix Spike	0.511	mg/L		0.01	0.005	01/09/19 19:19 PNS	0.500	0.009	100	69.5 - 130.4	M093782	
Blank	<0.005	mg/L		0.01	0.005	12/26/18 13:26 PNS					M093488	
LCS	1.03	mg/L		0.01	0.005	12/26/18 13:29 PNS	1.00	103	84.5 - 115.4		M093488	
LCS Dup	0.959	mg/L		0.01	0.005	12/26/18 13:46 PNS	1.00	95.9	84.5 - 115.4	7.53	20	M093488
Duplicate	0.010	mg/L		0.01	0.005	12/26/18 13:49 PNS		0.011	5.90	20	M093488	
Matrix Spike	0.888	mg/L		0.01	0.005	12/26/18 13:52 PNS	1.00	0.011	87.7	69.5 - 130.4	M093488	

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Metals (Total) - Quality Control

	Result	Units	Notes		SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Sodium - EPA 200.7 R4.4													Bryan
Blank	<0.050	mg/L	J (0.041)	0.05	0.050	01/09/19 18:27 PNS							M093783
LCS	5.15	mg/L		0.05	0.050	01/09/19 18:48 PNS	5.00		103	84.5 - 115.4			M093783
LCS Dup	5.19	mg/L		0.05	0.050	01/09/19 18:51 PNS	5.00		104	84.5 - 115.4	0.722	20	M093783
Duplicate	228	mg/L		1.00	1.00	01/09/19 18:55 PNS		234			2.46	20	M093783
Matrix Spike	322	mg/L		1.00	1.00	01/09/19 18:59 PNS	100	234	88.5	69.5 - 130.4			M093783
Blank	<0.102	mg/L		0.10	0.102	12/26/18 12:29 PNS							M093483
LCS	10.1	mg/L		0.10	0.104	12/26/18 12:32 PNS	10.0		101	84.5 - 115.4			M093483
LCS Dup	10.1	mg/L		0.10	0.104	12/26/18 12:36 PNS	10.0		101	84.5 - 115.4	0.688	20	M093483
Duplicate	1.51	mg/L		1.02	1.02	12/26/18 12:39 PNS		1.45			4.10	20	M093483
Matrix Spike	103	mg/L		1.04	1.04	12/26/18 12:57 PNS	100	1.45	101	69.5 - 130.4			M093483

Preparation Procedures - Quality Control

	Result	Units	Notes	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Turbidity - SM2130 B 2011												Bryan
Blank	<1.0	NTU		1.00	1.0	12/26/18 16:44 MRG						M093504
Blank	<1.0	NTU		1.00	1.0	12/26/18 16:44 MRG						M093504

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Sample Preparation Summary

Sample	Method	Prepared	Lab	Bottle	Initial	Units	Final	Units	External Dilution Factor	Batch
B033518-01										
Calcium	EPA 200.7 R4.4	12/26/18 10:29 PNS	Bryan	C	1.00	mL	10.2	mL	1	M093483
Iron	EPA 200.7 R4.4	12/26/18 10:41 PNS	Bryan	C	10.0	mL	10.2	mL	1	M093488
Manganese	EPA 200.7 R4.4	12/26/18 10:41 PNS	Bryan	C	10.0	mL	10.2	mL	1	M093488
Sample Acidified to pH<2 in Lab	N/A	12/20/18 17:04 KK	Bryan	C	1000	mL	1000	mL	1	M093367
Sodium	EPA 200.7 R4.4	12/26/18 10:29 PNS	Bryan	C	1.00	mL	10.2	mL	1	M093483
Specific Conductance (adjusted to 25.0°C)	SM2510 B 2011	12/27/18 13:38 LAM	Bryan	B	15.0	mL	25.0	mL	1	M093556
Total Alkalinity as CaCO ₃ (pH4.5)	SM2320 B 2011	12/26/18 13:05 LAM	Bryan	A	50.0	mL	200	mL	1	M093472
Total Dissolved Solids	SM2540 C 2011	12/21/18 11:20 AKS	Bryan	B	50.0	mL	50.0	mL	1	M093405
Total Hardness (EDTA) as CaCO ₃	SM2340 C 2011	1/2/19 10:32 LAM	Bryan	C	25.0	mL	50.0	mL	1	M093690
Turbidity	SM2130 B 2011	12/26/18 16:44 MRG	Bryan	C	10.0	mL	10.0	mL	1	M093504

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

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Calcium	EPA 200.7 R4.4	1/4/19 10:32 PNS	Bryan	C	2.50	mL	25.0	mL	1	M093783
Iron	EPA 200.7 R4.4	1/4/19 10:30 PNS	Bryan	C	50.0	mL	25.0	mL	1	M093782
Manganese	EPA 200.7 R4.4	1/4/19 10:30 PNS	Bryan	C	50.0	mL	25.0	mL	1	M093782
Sample Acidified to pH<2 in Lab	N/A	12/20/18 17:04 KK	Bryan	C	1000	mL	1000	mL	1	M093367
Sodium	EPA 200.7 R4.4	1/4/19 10:32 PNS	Bryan	C	2.50	mL	25.0	mL	1	M093783
Specific Conductance (adjusted to 25.0°C)	SM2510 B 2011	12/27/18 13:38 LAM	Bryan	B	15.0	mL	25.0	mL	1	M093556
Total Alkalinity as CaCO ₃ (pH4.5)	SM2320 B 2011	12/26/18 13:05 LAM	Bryan	A	50.0	mL	200	mL	1	M093472
Total Dissolved Solids	SM2540 C 2011	12/21/18 11:20 AKS	Bryan	B	50.0	mL	50.0	mL	1	M093405
Total Hardness (EDTA) as CaCO ₃	SM2340 C 2011	1/2/19 17:22 PNS	Bryan	C	50.0	mL	50.0	mL	1	M093708
Turbidity	SM2130 B 2011	12/26/18 16:44 MRG	Bryan	C	10.0	mL	10.0	mL	1	M093504

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY PARAMETER MONITORING FORM 20679																							
Completed by PWS (or Agent)										Completed by Laboratory													
PWS Name: <u>Frac Sand Terminal</u>					Laboratory Name:																		
PWS ID#: <u>TX 1420017</u>					TCEQ Lab ID #:																		
PWS Address: <u>5577 N IH35 Cotulla TX</u>					Laboratory Address: <u>Aqua-Tech Laboratories, Inc. 635 Phil Gramm Blvd Bryan, TX 77807 TX 239 Marianne Guzman 979-770-0707</u>																		
PWS Contact: <u>Chandler Atkins</u>																							
PWS Contact Phone #: <u>512 797-1360</u>					Laboratory Contact:																		
Inhibitor or Stabilizer Used (✓):		Phosphate		Silica		Calcium carbonate																	
TREATMENT		Alkalinity Dosage Rate:		Inhibitor Dosage Rate:			Laboratory Contact Phone #:																
Sample Information																							
Sample Type (✓):		Compliance		Non-compliance																			
Sample Collector (✓):		Public Water System		Accredited Lab			3rd Party Contractor --> LAB ID			AL													
Temperature and pH (Y or N):		Are temperature and pH included on the sampling entity's Laboratory Approval Form on file at the TCEQ?			Were temperature and pH measured in the field within 15 minutes of sample collection?																		
Facility ID (e.g. DS01, PBCU001)	Sample Point ID (e.g. DSTWQP, EWQP)	Sample Location	Sample Collection		Field Measurements		Replacement?	Original Sample ID #	Original Sample Date (MMDDYY)	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) *	
			Date (MMDDYY)	Time - 24 hr (HHMM)	pH	Temp (°C)																	
PBCU001	EWQP	EPool-Wellhouse	121918	9:10 AM	8.24	20.8				-01A,B,C	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
DS01	DSTWQP	Breakroom Sink	121918	9:20 AM	7.83	20.4				-02A,B,C	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
I acknowledge that information on this form is true and correct and sites selected for sampling follow the instructions in the TCEQ Monitoring and Sample Collection Guidance for Water Quality Parameters. This includes, but not limited to the measurement of pH and temperature immediately upon collection. Falsification of this form or tampering with water samples is a crime punishable under state and/or federal law. (Texas Penal Code, Title 8, Chapter 37.10)										Sample Conditions Upon Receipt (✓)													
Name of Authorized PWS Representative (Print)					Signature			Organization		Date		Rejection Code (if applicable):		Actual / Corrected sample temperature:		Ambient							
Chandler Atkins					[Signature]			Hydro Resources		12-20-18		122018 to 1704 MEKKS		5.3/5.3 CT		071550							
Chain of Custody					Relinquished By (Signature)			Relinquished By Courier (Signature)		Date/Time:		Laboratory Comments:											
Chandler Atkins					[Signature]			[Signature]		12-20-18													
Received By Courier (Signature)					Date/Time:			Received By Lab (Signature)		Date/Time:													
								Kelly Kukowski		12/20/18 1547													



Ana-Lab Corp.
P.O. Box 9000
Kilgore, TX 75663
903/984-0551

LELAP-accredited #02008

Report

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Printed 12/27/2018

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

Account

AQU5-C

Project

856531

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

<u>Report Name</u>	<u>Description</u>	<u>Pages</u>
856531_r03_03_ProjectResults	Ana-Lab Project P:856531 C:AQU5 Project Results t:304	3
856531_r03_06_ProjectTRRP	Ana-Lab Project P:856531 C:AQU5 Project TRRP Results Report for Class	2
856531_r10_05_ProjectQC	Ana-Lab Project P:856531 C:AQU5 Project Quality Control Groups	1
856531_r99_09_CoC__1_of_1	Ana-Lab CoC AQU5 856531_1_of_1	2

Total Pages:**8**

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662



NELAP-accredited #T104704201



Results

Report To

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

Account
AQU5-C

Project
856531

Results

1745462 B033518-01

Received: 12/21/2018

Drinking Water

Collected by: Client

Aqua-Tech Laboratori

PO:

Taken: 12/19/2018 09:10:00

EPA 300.0 2.1

Prepared: 815314 12/22/2018 08:08:00 Analyzed 815314 12/22/2018 08:08:00 AMB

Parameter

Results

Units

RL

Flag

CAS

Bottle

N Chloride

137

mg/L

5.00

01

EPA 300.0 2.1

Prepared: 815563 12/26/2018 08:57:00 Analyzed 815563 12/26/2018 08:57:00 KRR

Parameter

Results

Units

RL

Flag

CAS

Bottle

N Sulfate

506

mg/L

30.0

01

1745464 B033518-02

Received: 12/21/2018

Drinking Water

Collected by: Client

Aqua-Tech Laboratori

PO:

Taken: 12/19/2018 09:20:00

EPA 300.0 2.1

Prepared: 815314 12/22/2018 08:32:00 Analyzed 815314 12/22/2018 08:32:00 AMB

Parameter

Results

Units

RL

Flag

CAS

Bottle

N Chloride

137

mg/L

5.00

01

EPA 300.0 2.1

Prepared: 815563 12/26/2018 09:22:00 Analyzed 815563 12/26/2018 09:22:00 KRR

Parameter

Results

Units

RL

Flag

CAS

Bottle

N Sulfate

486

mg/L

30.0

01

Sample Preparation

1745462 B033518-01

Received: 12/21/2018

Prepared: 12/27/2018 00:00:00 Analyzed 12/27/2018 00:00:00 TWV





Results

1745462 B033518-01

Received: 12/21/2018

Prepared: 12/27/2018 00:00:00 Analyzed 12/27/2018 00:00:00 TWV

z TCEQ WQP Form

See attached

Prepared: 815109 12/21/2018 00:00:00 Analyzed 815109 12/21/2018 00:00:00 CCP

Cooler Temperature 0.3 degrees 01

1745464 B033518-02

Received: 12/21/2018

Prepared: 815109 12/21/2018 00:00:00 Analyzed 815109 12/21/2018 00:00:00 CCP

Cooler Temperature 0.3 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 T104704201-18, 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. 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.





Results

Bill Peery

Bill Peery, MS, VP Technical Services





Results Summary

Project

856531

Report To

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

TX1420017

CAS	Parameter	Results	MDL	SDL	MQL	MQLAdj	Flag	Units	Target	Bottle	Dilute
Drinking Water		Ion Chromatography				EPA 300.0 2.1					
1745462	B033518-01										
			Collection:	12/19/2018	09:10:00	Client		Received:		12/21/2018	
Prepared:			815314								
					Analyzed:	815314		12/22/18	08:08:00		
Chloride			137	0.0196	0.196	0.300	5.00	mg/L	5.00	01	10.00
Prepared:			815563								
					Analyzed:	815563		12/26/18	08:57:00		
Sulfate			506	0.00775	0.775	0.300	30.0	mg/L	5.00	01	100.00
1745464	B033518-02										
			Collection:	12/19/2018	09:20:00	Client		Received:		12/21/2018	
Prepared:			815314								
					Analyzed:	815314		12/22/18	08:32:00		
Chloride			137	0.0196	0.196	0.300	5.00	mg/L	5.00	01	10.00
Prepared:			815563								
					Analyzed:	815563		12/26/18	09:22:00		
Sulfate			486	0.00775	0.775	0.300	30.0	mg/L	5.00	01	100.00

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)





Report To

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

Qualifiers:

Results Summary

TX1420017

Project

856531

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 T104704201-18, 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. 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.

Bill Peery, MS, VP Technical Services





Quality Control

Printed 12/27/2018

Page 1 of 1

Report To

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

TX1420017

Account
AQU5-CProject
856531Analytical Set **815314**

EPA 300.0 2.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Chloride	815314	0.058	0.0196	0.300	mg/L	119449605

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chloride	9.64	10.0	mg/L	96.4	90.0 - 110	119449601
	9.80	10.0	mg/L	98.0	90.0 - 110	119449616
	9.84	10.0	mg/L	98.4	90.0 - 110	119449628

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Chloride	815314	4.81	4.81	5.00	85.0 - 110	96.2	96.2	mg/L	0	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Chloride	1745540	167	167	120	50.0	80.0 - 120	94.0	94.0	mg/L	0	20.0
	1745684	42.7	43.7	32.8	10.0	80.0 - 120	99.0	109	mg/L	9.62	20.0

Analytical Set **815563**

EPA 300.0 2.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Sulfate	815563	0.074	0.00775	0.300	mg/L	119454949

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Sulfate	9.92	10.0	mg/L	99.2	90.0 - 110	119454945
	10.3	10.0	mg/L	103	90.0 - 110	119454956

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Sulfate	815563	5.03	5.08	5.00	88.0 - 110	101	102	mg/L	0.989	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Sulfate	1745464	568	570	486	100	80.0 - 120	82.0	84.0	mg/L	2.41	20.0

* Out RPD is Relative Percent Difference: $\text{abs}(r1-r2) / \text{mean}(r1,r2) * 100\%$ Recover% is Recovery Percent: $\text{result} / \text{known} * 100\%$

Blank - Method Blank; CCV - Continuing Calibration Verification



1 of 2

856531 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

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 #
7 - B033518



T104704371

Chain-of-Custody & Analysis Request

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: B033518-01	Sampled: 12/19/18 09:10	Matrix: Drinking Water	Laboratory ID >>	1145462
Chloride - EPA 300.0		SO4 DW - EPA 300.0			
Analysis Request for	Sample ID: B033518-02	Sampled: 12/19/18 09:20	Matrix: Drinking Water	Laboratory ID >>	464
Chloride - EPA 300.0		SO4 DW - EPA 300.0			

CONTAINERS SUPPLIED:

() B033518-01 [D] - CI SO4 0.5LP
() B033518-02 [D] - CI SO4 0.5LP

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

Relinquished by: (print & sign) ☒ ATL-Austin ☐ ATL-Bryan ☐ Sampler		Date	Time	Received	Abbreviations:
Kelly Kukowski		12/20/18	1710	☒ Custody Sealed ☐ Not Sealed	DW - Drinking Water NP - Non-Portable Water S - Solid CTU - Custody Transfer Unbroken LG - Litter Glass
Carrier & Tracking Number: Lone Star		Cooler 1: AQU5 - ZY00BFYP		Sample Info: "X" all that apply	SIP - Sterile Plastic UP - Litter Plastic
Received By: (print & sign) ☒ Preserved in Lab		Date	Time	Received	CTU - Litter Glass
Ana-Lab		12/21/18	0925	☒ Condition Good ☐ Not Rec'd Load	
Line below documents condition at receipt in lab (shipped to) listed above:					
Cooler Temperature (°C)	Temp. Read (°F)	Corrected Temp. (°C)	Thermometer ID	Please email reports to: corp@aquatechlabs.com	
Cooler 1				Please return cooler(s) to: Austin Facility	
N/A	N/A	N/A		5 DAY TAT	
See Attached for Tracking # and Temp					
BRET					

2 of 2

856531 CoC Print Group 001 of 001

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY PARAMETER MONITORING FORM 20679										290098									
Completed by PWS (on Agent)										Completed by Laboratory									
PWS Name:		Frac Sand Terminal								Laboratory Name:									
PWS ID#:		TX 1426617								TCEQ Lab ID #:									
PWS Address:		5577 N FHS Cellula TX								Laboratory Address:		Aqua-Tech Laboratories, Inc. 685 Phil Gramm Blvd Bryan, TX 77807 TX 238 Marijane Guzman 878-778-8787							
PWS Contact:		Chandler Atkins								Laboratory Contact:									
PWS Contact Phone #:		512 743-1360								Laboratory Contact Phone #:									
Inhibitor or Substrate Used (Y/N)		Phosphate		Silica		Cadmium Cd (100.37)		Laboratory Contact:											
TREATMENT		Alkalinity Dosage Rate:		Inhibitor Dosage Rate:		Laboratory Contact Phone #:													
Sample Information:										Parameters Requested: Analytes are required for the parameters checked. If inhibitors containing phosphate or silica are used, these parameters should also be analyzed (reported in one unit).									
Sample Type (Y/N)		Compliance		Non-Compliance		Accredited Lab:		Lab ID:		AL									
Sample Collection (Y/N)		Public Water System		Accredited Lab:		Lab ID:		Lab ID:											
Temperature and pH (Y/N)		Yes (include on the sampling entry)		No (include on the sampling entry)		Water temperature and pH measured in the field within 15 minutes of sample collection (Y/N)		Lab ID:											
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
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Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
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Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
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Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
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Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
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Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)		Replacement		Original Sample Date/Time (Y/N)		Original Sample ID #		Original Sample Date/Time (Y/N)	
Sample ID (Y/N)		Sample location		Sample Collection		Date/Time (Y/N)		pH		Temp (C)									