



POWER ENGINEERS, INC.

2600 VIA FORTUNA
SUITE 450
AUSTIN, TX 78746 USA

PHONE 512-329-5544
FAX 512-329-8253

July 19, 2022

Grayson Roberts
City of Round Rock
Utilities and Environmental Services
3400 Sunrise Road
Round Rock, TX 78664

Subject: Brushy Creek Water Quality Sampling
Round Rock, Texas

Dear Mr. Roberts,

POWER Engineers, Inc. (POWER) was contracted by the City of Round Rock, Utilities and Environmental Department (City) to conduct water quality monitoring along classified stream Segment 1244, Brushy Creek, east of Round Rock. The project included the collection and chemical analysis of surface water samples from six locations selected by the City. This letter report presents the results of this monitoring program with a comparison to Texas Surface Water Quality Standards for Segment 1244, as well as General Criteria, established by 30 Texas Administrative Code (TAC) Chapter 307.4, Criteria in Water for Specific Toxic Materials established in 30 TAC 307.6(d)(1), Table 2, and Ambient Water Reporting Limits (TCEQ 2013). Segment 1244 (Brushy Creek) has a designated beneficial use of "Primary Contact Recreation 1" and high aquatic life use in portions that overlie the Edwards Aquifer Contributing, Recharge, or Transition Zones.

MONITORING APPROACH

Six monitoring locations were selected by the City for their proximity to the City's West and East Wastewater Treatment Plants and their accessibility (see Figure 1). Monitoring was performed on six days within a three-week period. Monitoring was performed at approximately the same time of day (between 10:00 a.m. – 2:00 p.m.) on Tuesdays and Thursdays over three consecutive weeks.

The six monitoring locations are described below. These are depicted from upstream to downstream along Brushy Creek.

- Creek Monitoring Site #1 – Approximately 400 feet upstream of Brushy Creek West WWTP outfall (near 1116 E Austin Ave.).
- Creek Monitoring Site #2 – Approximately 1,600 feet downstream from the Brushy Creek West WWTP outfall The Creek Apartments (near 1525 E Palm Valley Blvd.).
- Creek Monitoring Site #3 – Approximately 135 feet upstream of Brushy Creek East WWTP outfall (near 3939 E Palm Valley Blvd.).

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- Creek Monitoring Site #4-Approximately 330 feet downstream of Brushy Creek East WWTP outfall (near 3939 E Palm Valley Blvd.).
- Creek Monitoring Site #5 – Approximately 2,250 feet downstream of Brushy Creek East WWTP outfall at Red Bud Low Water Crossing (near 2003 Brushy Creek Rd.).
- Creek Monitoring Site #6 – Approximately 10,355 feet downstream of Brushy Creek East WWTP outfall at County Road 123 Low Water Crossing (near 4584 County Road 123).

SAMPLING PARAMETERS

Analysis was performed by Aqua-Tech Laboratories, a National Environmental Laboratory Accreditation Program (NELAP) accredited lab, following approved United States Environmental Protection Agency (USEPA) methods for the analysis of water. The following water quality parameters were analyzed:

- Carbonaceous Biological Oxygen Demand (BOD)
- Total Suspended Solids (TSS)
- Total Dissolved Solids (TDS)
- Ammonia as Nitrogen (N)
- Total Kjeldahl Nitrogen as N
- Nitrite as Nitrogen
- Combined Nitrate + Nitrite as Nitrogen
- Total Nitrogen
- Turbidity
- E. coli
- Total Phosphorous

SAMPLING METHODOLOGY

Consistent field methodology was employed to promote comparable sample results. Staff donned chest waiters and nitrile gloves. Samples were collected from near the centerline of a flowing portion of Brushy Creek at each monitoring location.

A clean, plastic container was used to collect sample portions from the creek. Surface water was then transferred into laboratory-supplied containers. POWER staff labeled each container with the monitoring location, sample date and time, and analysis to be performed. The filled containers were placed on ice during collection and transport to the

laboratory. Appropriate sample collection and transportation custody measures were employed.

RESULTS

Laboratory results were compared against relevant regulatory thresholds for water quality testing, including Texas Surface Water Quality Standards for Brushy Creek (Segment 1244), Criteria in Water for Specific Toxic Materials: Human Health Protection, and the Ambient Water Reporting Limits (AWRLs) List used by the Texas Clean Rivers Program to monitor stream health, published by TCEQ in 2013. Flow data of Brushy Creek was obtained from the National Water Information System Mapper compiled from the United States Geological Survey (USGS). The USGS operates a monitoring station along Brushy Creek located near IH 35 and approximately 7,000 feet upstream from Monitoring Location No. 1. Discharge data recorded at the monitoring station was collected to document the discharge volume on the morning of each monitoring event. Water quality thresholds are based on typical stream flow conditions, such that comparison against thresholds during low flow conditions may return incomplete water quality data.

Two parameters tested are reflective of the Texas Surface Water Quality Standards associated with Brushy Creek, Segment 1244: TDS and E. Coli. Exceedances of TDS were not observed at any monitoring station during the six monitoring events. E Coli exceedances were observed a total of 20 times at each of the six monitoring stations in various events, as noted in the Table 1 below.

TABLE 1 SIX WEEK MONITORING AT BRUSHY CREEK (SEGMENT 1244) TDS AND E. COLI RESULTS ABOVE THRESHOLD

STATION	EVENT 1	EVENT 2	EVENT 3	EVENT 4	EVENT 5	EVENT 6
	7-Jun-22	9-Jun-22	14-Jun-22	16-Jun-22	21-Jun-22	23-Jun-22
Flow	28.4 cfs	22.6 cfs	10.1 cfs	11.7 cfs	8.85 cfs	7.77 cfs
Station 1						
TDS	<5 mg/L	<5 mg/L	<5 mg/L	<5 mg/L	<5 mg/L	<5 mg/L
E Coli	<126 MPN/100 mL	<126 MPN/100 mL	<126 MPN/100 mL	14,000 MPN/100 mL	2,790 MPN/100 mL	<126 MPN/100 mL
Station 2						
TDS	<5 mg/L	<5 mg/L	<5 mg/L	<5 mg/L	<5 mg/L	<5 mg/L
E Coli	<126 MPN/100 mL	<126 MPN/100 mL	<126 MPN/100 mL	11,800 MPN/100 mL	<126 MPN/100 mL	155 MPN/100 mL
Station 3						
TDS	<5 mg/L	<5 mg/L	<5 mg/L	<5 mg/L	<5 mg/L	<5 mg/L
E Coli	<126 MPN/100 mL	<126 MPN/100 mL	<126 MPN/100 mL	8,550 MPN/100 mL	<126 MPN/100 mL	345 MPN/100 mL
Station 4						
TDS	<5 mg/L	<5 mg/L	<5 mg/L	<5 mg/L	<5 mg/L	<5 mg/L
E Coli	727 MPN/100 mL	<126 MPN/100 mL	17,800 MPN/100 mL	<126 MPN/100 mL	30,800 MPN/100 mL	46,100 MPN/100 mL

STATION	EVENT 1	EVENT 2	EVENT 3	EVENT 4	EVENT 5	EVENT 6
	7-Jun-22	9-Jun-22	14-Jun-22	16-Jun-22	21-Jun-22	23-Jun-22
Station 5						
TDS	<5 mg/L	<5 mg/L	<5 mg/L	<5 mg/L	<5 mg/L	<5 mg/L
E Coli	356 MPN/100 mL	<126 MPN/100 mL	3,500 MPN/100 mL	<126 MPN/100 mL	727 MPN/100 mL	61,300 MPN/100 mL
Station 6						
TDS	<5 mg/L	<5 mg/L	<5 mg/L	<5 mg/L	<5 mg/L	<5 mg/L
E Coli	4,080 MPN/100 mL	194 MPN/100 mL	461 MPN/100 mL	15,600 MPN/100 mL	12,200 MPN/100 mL	29,100 MPN/100 mL

Total nitrogen monitoring results were compared against the Site-Specific Toxic Materials: Human Health Criteria established in 30 TAC Chapter 307.6(d)(1) Table 2, which sets a concentration of 10 mg/L in water. Total nitrogen exceedances were observed in three of the six monitoring events and three of the six stations, as noted in Table 2 below.

TABLE 2 SIX WEEK MONITORING AT BRUSHY CREEK (SEGMENT 1244) TOTAL NITROGEN RESULTS ABOVE THRESHOLD

STATION	EVENT 1	EVENT 2	EVENT 3	EVENT 4	EVENT 5	EVENT 6
	7-Jun-22	9-Jun-22	14-Jun-22	16-Jun-22	21-Jun-22	23-Jun-22
Flow	28.4 cfs	22.6 cfs	10.1 cfs	11.7 cfs	8.85 cfs	7.77 cfs
Station 1						
Total Nitrogen	< 10 mg/L	< 10 mg/L	< 10 mg/L	< 10 mg/L	< 10 mg/L	< 10 mg/L
Station 2						
Total Nitrogen	< 10 mg/L	< 10 mg/L	< 10 mg/L	< 10 mg/L	< 10 mg/L	< 10 mg/L
Station 3						
Total Nitrogen	< 10 mg/L	< 10 mg/L	< 10 mg/L	< 10 mg/L	< 10 mg/L	< 10 mg/L
Station 4						
Total Nitrogen	23.2 mg/L	< 10 mg/L	< 10 mg/L	< 10 mg/L	13.8 mg/L	11.7 mg/L
Station 5						
Total Nitrogen	10.7 mg/L	< 10 mg/L	< 10 mg/L	< 10 mg/L	< 10 mg/L	11.7 mg/L
Station 6						
Total Nitrogen	< 10 mg/L	< 10 mg/L	< 10 mg/L	< 10 mg/L	13.9 mg/L	10.6 mg/L

Other parameters monitored were compared to the AWRLs associated with the Texas Clean Rivers Program. These values represent ambient stream measurements and are not indicative of aquatic life use protection criteria. Therefore, POWER has tabulated the laboratory results for each of the six monitoring events. These tables are presented in Attachment A. The laboratory reports are provided in Attachment B.

City of Round Rock
July 19, 2022

If you have any questions regarding this data, or require further information please feel free to contact me at 512-879-6625 or at steve.mcvey@powereng.com.

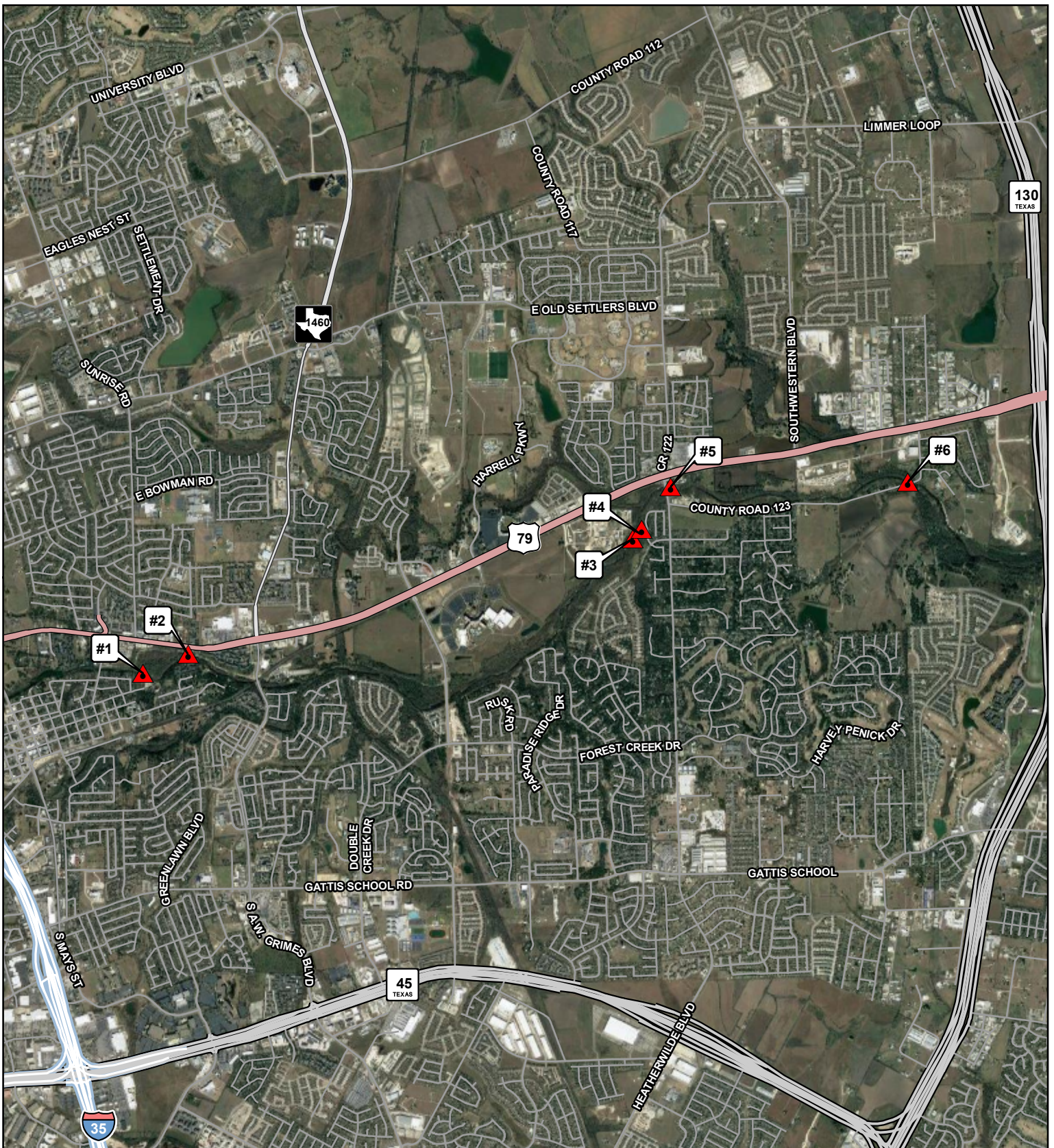
Sincerely,
POWER Engineers, Inc.

A handwritten signature in blue ink that reads "Steve McVey". The signature is fluid and cursive, with the first name "Steve" being more prominent than the last name "McVey".


Steve McVey
Project Manager

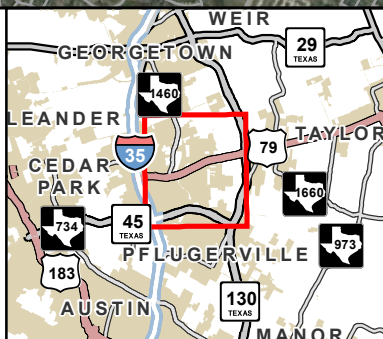
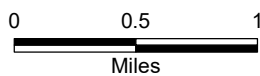
Enclosures: Figure 1
Attachment A – Summary Tables
Attachment B – Lab Reports

FIGURE 1



Legend

 Monitoring Site



**CITY OF ROUND ROCK
BRUSHY CREEK
WATER QUALITY EVALUATION**

**FIGURE 1
MONITORING LOCATION MAP**

WILLIAMSON COUNTY, TEXAS



Date: 7/15/2022

ATTACHMENT A – SUMMARY TABLES

ATTACHMENT A
Sample Event No. 1
JUNE 7, 2022
BRUSHY CREEK (Segment 1244)

Constituent	Units	Comparison Threshold	Monitoring Location No. 1	Monitoring Location No. 2	Monitoring Location No. 3	Monitoring Location No. 4	Monitoring Location No. 5	Monitoring Location No. 6	Exceeds Threshold
Carbonaceous BOD (5 day)	mg/L	2 ³	1	1	<1.0	4	3	3	3
Total Suspended Solids	mg/L	5 ³	8	6	4	7	8	5	4
Total Dissolved Solids	mg/L	800 ¹	350	378	346	484	462	446	0
Ammonia as N	mg/L	0.1 ³	0.12	0.08	<0.05	9.33	8.80	5.39	4
Total Kjeldahl Nitrogen as N	mg/L	0.2 ³	0.60	0.61	0.47	22.4	9.74	5.82	6
Nitrite as N	mg/L	0.05 ³	0.01	0.02	<0.01	0.06	0.20	0.51	3
Nitrate+Nitrite as N	mg/L	0.05 ³	0.76	1.38	1.22	0.82	1.00	1.87	6
Nitrogen, Total	mg/L	10.0 ²	1.37	1.99	1.69	23.2	10.7	7.69	2
Turbidity	NTU	Not Available	6.9	4.5	4.3	5.8	6.7	5.1	N/A
E. Coli	MPN/100 mL	126 ¹	51.2	59.4	34.5	727	356	4080	3
Phosphorus -Total	mg/L	Not Available	0.082	0.080	0.076	0.902	0.996	0.804	N/A
Notes:									
Thresholds used for comparison are as noted below, but should not be relied upon during low flow conditions.									
1	30 TAC 307.10(1) Appendix A: Site Specific Uses and Criteria for Classified Segments (Segment 1244)								
2	30 TAC 307.6(d)(1) Table 2: Criteria in Water for Specific Toxic Materials: Human Health Protection								
3	Ambient Water Reporting Limits (AWRLs) for Texas Surface Water Quality Monitoring Programs (April 2013)								

ATTACHMENT A
Sample Event No. 2
JUNE 9, 2022
BRUSHY CREEK (Segment 1244)

Constituent	Units	Comparison Thresholds	Monitoring Location No. 1	Monitoring Location No. 2	Monitoring Location No. 3	Monitoring Location No. 4	Monitoring Location No. 5	Monitoring Location No. 6	Exceeds Threshold
Carbonaceous BOD (5 day)	mg/L	2 ³	<1	3	1	<1	1	2	1
Total Suspended Solids	mg/L	5 ³	6	5	5	4	4	4	1
Total Dissolved Solids	mg/L	800 ¹	282	298	276	420	394	448	0
Ammonia as N	mg/L	0.1 ³	0.09	0.06	<0.05	2.22	1.62	1.64	3
Total Kjeldahl Nitrogen as N	mg/L	0.2 ³	0.58	0.71	0.45	3.34	2.86	2.34	6
Nitrite as N	mg/L	0.05 ³	0.01	0.02	<0.01	0.14	0.30	0.81	3
Nitrate+Nitrite as N	mg/L	0.05 ³	0.81	1.71	1.87	3.31	3.54	3.64	6
Nitrogen, Total	mg/L	10.0 ²	1.38	2.42	2.32	6.65	6.40	5.97	0
Turbidity	NTU	Not Available	6.5	4.3	2.4	2.5	3.1	3.6	N/A
E. Coli	MPN/100 mL	126 ¹	37.3	84.5	60.5	48.8	42.0	194	1
Phosphorus -Total	mg/L	Not Available	0.076	0.095	0.085	0.246	0.242	0.419	N/A
Notes:									
Thresholds used for comparison are as noted below, but should not be relied upon during low flow conditions.									
1	30 TAC 307.10(1) Appendix A: Site Specific Uses and Criteria for Classified Segments (Segment 1244)								
2	30 TAC 307.6(d)(1) Table 2: Criteria in Water for Specific Toxic Materials: Human Health Protection								
3	Ambient Water Reporting Limits (AWRLs) for Texas Surface Water Quality Monitoring Programs (April 2013)								

ATTACHMENT A
Sample Event No. 3
JUNE 14 2022
BRUSHY CREEK (Segment 1244)

Constituent	Units	Comparison Threshold	Monitoring Location No. 1	Monitoring Location No. 2	Monitoring Location No. 3	Monitoring Location No. 4	Monitoring Location No. 5	Monitoring Location No. 6	Exceeds Threshold
Carbonaceous BOD (5 day)	mg/L	2 ³	<1.0	<1.0	<1.0	1	2	<1	0
Total Suspended Solids	mg/L	5 ³	8	2	2	4	3	3	1
Total Dissolved Solids	mg/L	800 ¹	342	322	320	484	484	374	0
Ammonia as N	mg/L	0.1 ³	0.06	<0.05	<0.05	0.17	0.14	0.13	3
Total Kjeldahl Nitrogen as N	mg/L	0.2 ³	0.60	0.57	0.51	1.17	1.03	0.95	6
Nitrite as N	mg/L	0.05 ³	0.01	0.03	0.02	0.17	0.15	0.17	3
Nitrate+Nitrite as N	mg/L	0.05 ³	0.79	2.30	1.43	5.72	5.33	5.10	6
Nitrogen, Total	mg/L	10.0 ²	1.39	2.87	1.94	6.90	6.36	6.05	0
Turbidity	NTU	Not Available	6.0	2.3	2.0	2.8	2.5	2.5	N/A
E. Coli	MPN/100 mL	126 ¹	17.3	90.8	102	17800	3500	461	3
Phosphorus -Total	mg/L	Not Available	0.064	0.135	0.121	0.578	0.504	0.374	N/A
Notes:									
Thresholds used for comparison are as noted below, but should not be relied upon during low flow conditions.									
1	30 TAC 307.10(1) Appendix A: Site Specific Uses and Criteria for Classified Segments (Segment 1244)								
2	30 TAC 307.6(d)(1) Table 2: Criteria in Water for Specific Toxic Materials: Human Health Protection								
3	Ambient Water Reporting Limits (AWRLs) for Texas Surface Water Quality Monitoring Programs (April 2013)								

ATTACHMENT A
Sample Event No. 4
JUNE 16, 2022
BRUSHY CREEK (Segment 1244)

Constituent	Units	Comparison Threshold	Monitoring Location No. 1	Monitoring Location No. 2	Monitoring Location No. 3	Monitoring Location No. 4	Monitoring Location No. 5	Monitoring Location No. 6	Exceeds Threshold
Carbonaceous BOD (5 day)	mg/L	2 ³	2	2	2	<1.0	<1.0	1	0
Total Suspended Solids	mg/L	5 ³	4	2	5	6	2	<1	1
Total Dissolved Solids	mg/L	800 ¹	446	536	536	328	394	412	0
Ammonia as N	mg/L	0.1 ³	0.18	0.16	0.14	0.07	<0.05	<0.05	3
Total Kjeldahl Nitrogen as N	mg/L	0.2 ³	0.87	1.02	1.13	<1.00	0.72	0.60	5
Nitrite as N	mg/L	0.05 ³	0.17	0.16	0.32	0.01	0.03	0.02	3
Nitrate+Nitrite as N	mg/L	0.05 ³	4.67	6.18	6.29	0.74	2.59	1.51	6
Nitrogen, Total	mg/L	10.0 ²	5.55	7.19	7.42	<1.04	3.31	2.11	0
Turbidity	NTU	Not Available	2.0	2.6	2.3	4.9	2.3	1.2	N/A
E. Coli	MPN/100 mL	126 ¹	14000	11800	8550	14.8	83.9	15600	4
Phosphorus -Total	mg/L	Not Available	0.498	0.271	0.226	<0.050	0.098	0.103	N/A
Notes:									
Thresholds used for comparison are as noted below, but should not be relied upon during low flow conditions.									
1	30 TAC 307.10(1) Appendix A: Site Specific Uses and Criteria for Classified Segments (Segment 1244)								
2	30 TAC 307.6(d)(1) Table 2: Criteria in Water for Specific Toxic Materials: Human Health Protection								
3	Ambient Water Reporting Limits (AWRLs) for Texas Surface Water Quality Monitoring Programs (April 2013)								

ATTACHMENT A
Sample Event No. 5
JUNE 21, 2022
BRUSHY CREEK (Segment 1244)

Constituent	Units	Comparison Threshold	Monitoring Location No. 1	Monitoring Location No. 2	Monitoring Location No. 3	Monitoring Location No. 4	Monitoring Location No. 5	Monitoring Location No. 6	Exceeds Threshold
Carbonaceous BOD (5 day)	mg/L	2 ³	1	<1.0	<1.0	6	<1.0	5	2
Total Suspended Solids	mg/L	5 ³	19	21	22	1	3	2	3
Total Dissolved Solids	mg/L	800 ¹	306	376	334	518	576	496	0
Ammonia as N	mg/L	0.1 ³	0.52	0.45	<0.05	0.55	<0.05	1.31	4
Total Kjeldahl Nitrogen as N	mg/L	0.2 ³	1.28	0.98	0.53	1.97	0.41	2.02	6
Nitrite as N	mg/L	0.05 ³	0.47	0.27	<0.01	0.26	0.03	0.23	4
Nitrate+Nitrite as N	mg/L	0.05 ³	6.31	2.18	0.38	11.9	1.13	11.9	6
Nitrogen, Total	mg/L	10.0 ²	7.59	3.16	0.91	13.8	1.54	13.9	2
Turbidity	NTU	Not Available	1.6	2.5	7.6	9.7	<1.0	9.4	N/A
E. Coli	MPN/100 mL	126 ¹	2790	52.0	21.3	30800	727	12200	4
Phosphorus -Total	mg/L	Not Available	1.47	0.061	0.055	1.92	0.060	1.82	N/A
Notes:									
Thresholds used for comparison are as noted below, but should not be relied upon during low flow conditions.									
1	30 TAC 307.10(1) Appendix A: Site Specific Uses and Criteria for Classified Segments (Segment 1244)								
2	30 TAC 307.6(d)(1) Table 2: Criteria in Water for Specific Toxic Materials: Human Health Protection								
3	Ambient Water Reporting Limits (AWRLs) for Texas Surface Water Quality Monitoring Programs (April 2013)								

ATTACHMENT A
Sample Event No. 6
JUNE 23, 2022
BRUSHY CREEK (Segment 1244)

Constituent	Units	Comparison Threshold	Monitoring Location No. 1	Monitoring Location No. 2	Monitoring Location No. 3	Monitoring Location No. 4	Monitoring Location No. 5	Monitoring Location No. 6	Exceeds Threshold
Carbonaceous BOD (5 day)	mg/L	2 ³	2	1	1	3	3	3	3
Total Suspended Solids	mg/L	5 ³	2	3	<1	5	4	1	0
Total Dissolved Solids	mg/L	800 ¹	388	466	430	594	634	572	0
Ammonia as N	mg/L	0.1 ³	<0.05	<0.05	<0.05	1.58	1.55	1.31	3
Total Kjeldahl as N	mg/L	0.2 ³	0.46	0.47	0.36	1.80	1.95	1.37	6
Nitrate as N	mg/L	0.05 ³	0.01	0.03	0.02	0.36	0.46	0.64	3
Nitrate/Nitrite as N	mg/L	0.05 ³	0.30	4.39	1.52	9.85	9.78	9.27	6
Nitrogen, Total	mg/L	10.0 ²	0.77	4.86	1.88	11.7	11.7	10.6	3
Turbidity	NTU	Not Available	3.9	2.3	<1.0	3.6	3.0	1.8	N/A
E. Coli	MPN/100 mL	126 ¹	19.7	155	345	46100	61300	29100	5
Phosphorus-Total	mg/L	Not Available	0.059	0.100	0.058	1.84	1.88	2.02	N/A
Notes:									
Thresholds used for comparison are as noted below, but should not be relied upon during low flow conditions.									
1 30 TAC 307.10(1) Appendix A: Site Specific Uses and Criteria for Classified Segments (Segment 1244)									
2 30 TAC 307.6(d)(1) Table 2: Criteria in Water for Specific Toxic Materials: Human Health Protection									
3 Ambient Water Reporting Limits (AWRLs) for Texas Surface Water Quality Monitoring Programs (April 2013)									

ATTACHMENT B – LABORATORY REPORTS

Email information for report date:

6/27/22 16:16

F017605

Power Engineers

Attn: Rob Von Czoernig

rob.vonczoernig@powereng.com

-
-, - -

ATL has improperly reported the field parameters pH, Chlorine, and DO as NEL Accredited.

ATL is accredited for these parameters when they are performed in the lab. These field parameters are now being reported with an ANR, "Accreditation not offered by the State of Texas," indicator.

There is no impact to the result values that have been previously reported.

Aqua-Tech values you as a customer and encourages you to speak with our staff at 979-778-3707 or samplingbryan@aquatechlabs.com if you have questions.

Thank you for your business,
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
3512 Montopolis Dr. Suite A
Austin, TX 78744
Phone: (512) 301-9559
Fax: (512) 301-9552

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 offered by the State of Texas.
- DWP Approval 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'.

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.

corp@aquatechlabs.com

www.aquatechlabs.com

T104704371-21-24



TCEQ DW Lab ID TX 239

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



AUSTIN OFFICE
 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

Analytical Report

Power Engineers

Report Printed:

6/27/22 16:16

F017605

Power Eng Creek Monitoring Site #1

Collected: 06/07/22 10:00 by CLIENT
 Received: 06/07/22 15:07 by Brianna Burke

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F017605

Lab ID#	F017605-01	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)	1	mg/L			1	1	1	Austin	06/08/22 07:40 HNJ	SM5210 B 2016	M145574	NEL
Total Suspended Solids	8	mg/L			1	1	1	Austin	06/09/22 08:24 ASF	SM2540 D 2015	M145621	NEL
Total Dissolved Solids	350	mg/L			25.0	50.0	50.0	Austin	06/09/22 14:22 ASF	SM2540 C 2015	M145702	NEL
Total Kjeldahl Nitrogen as N	0.60	mg/L			0.18	0.18	0.20	Bryan	06/17/22 11:34 ATG	EPA 351.2 R2.0	M145679	NEL
Nitrite as N	0.01	mg/L			0.002	0.002	0.01	Austin	06/08/22 12:30 JLL	SM4500 NO2- B 2011	M145614	NEL
Nitrate/Nitrite as N	0.76	mg/L			0.02	0.02	0.02	Bryan	06/09/22 09:43 ASR	SM4500-NO3-F 2011	M145660	ANR
Nitrogen, Total	1.37	mg/L				0.220	0.220	Calc	06/17/22 11:34 ATG	Calculation	[CALC]	ANR
Turbidity	6.9	NTU			0.1	0.1	1.0	Austin	06/08/22 08:00 BEB	SM2130 B 2011	M145566	NEL

Microbiological Analyses

E. Coli	51.2	MPN/100 mL			1.0	1.0	1.0	Austin	06/07/22 16:48 ASF	SM9223 B 2004	M145558	NEL
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Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.

Metals (Total)

Phosphorus-Total	0.082	mg/L			0.082	0.041	0.050	Bryan	06/15/22 12:50 MRG	EPA 200.7 R4.4	M145597	NEL
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F017605-01 - re-analysis

General Chemistry

Ammonia as N	0.12	mg/L			0.05	0.05	0.05	Bryan	06/16/22 15:02 ATG	SM4500-NH3 G 2011	M145997	NEL
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 635 Phil Gramm Boulevard
 Bryan, TX 77807
 Phone: (979) 778-3707
 Fax: (979) 778-3193



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

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F017605

Power Eng Creek Monitoring Site #2

Collected: 06/07/22 10:35 by CLIENT
 Received: 06/07/22 15:07 by Brianna Burke

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F017605

Lab ID#	F017605-02	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		1	mg/L		1	1	1	Austin	06/08/22 07:40 HNJ	SM5210 B 2016	M145574	NEL
Total Suspended Solids		6	mg/L		1	1	1	Austin	06/09/22 08:24 ASF	SM2540 D 2015	M145621	NEL
Total Dissolved Solids		378	mg/L		25.0	50.0	50.0	Austin	06/09/22 14:22 ASF	SM2540 C 2015	M145702	NEL
Ammonia as N		0.08	mg/L		0.05	0.05	0.05	Bryan	06/13/22 11:01 ATG	SM4500-NH3 G 2011	M145842	NEL
Total Kjeldahl Nitrogen as N		0.61	mg/L		0.18	0.18	0.20	Bryan	06/17/22 11:34 ATG	EPA 351.2 R2.0	M145679	NEL
Nitrite as N		0.02	mg/L		0.002	0.002	0.01	Austin	06/08/22 12:30 JLL	SM4500 NO2- B 2011	M145614	NEL
Nitrate/Nitrite as N		1.38	mg/L		0.02	0.02	0.02	Bryan	06/09/22 09:43 ASR	SM4500-NO3-F 2011	M145660	ANR
Nitrogen, Total		1.99	mg/L			0.220	0.220	Calc	06/17/22 11:34 ATG	Calculation	[CALC]	ANR
Turbidity		4.5	NTU		0.1	0.1	1.0	Austin	06/08/22 08:00 BEB	SM2130 B 2011	M145566	NEL
Microbiological Analyses												
E. Coli		59.4	MPN/100 mL		1.0	1.0	1.0	Austin	06/07/22 16:48 ASF	SM9223 B 2004	M145558	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total		0.080	mg/L		0.082	0.041	0.050	Bryan	06/15/22 12:53 MRG	EPA 200.7 R4.4	M145597	NEL

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
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Power Eng Creek Monitoring Site #3

Collected: 06/07/22 11:05 by CLIENT
 Received: 06/07/22 15:07 by Brianna Burke

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F017605

Lab ID#	F017605-03	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		<1	mg/L		1	1	1	Austin	06/08/22 07:40 HNJ	SM5210 B 2016	M145574	NEL
Total Suspended Solids		4	mg/L		1	1	1	Austin	06/09/22 08:24 ASF	SM2540 D 2015	M145621	NEL
Total Dissolved Solids		346	mg/L		25.0	50.0	50.0	Austin	06/09/22 14:22 ASF	SM2540 C 2015	M145702	NEL
Ammonia as N		<0.05	mg/L		0.05	0.05	0.05	Bryan	06/13/22 11:01 ATG	SM4500-NH3 G 2011	M145838	NEL
Total Kjeldahl Nitrogen as N		0.47	mg/L		0.18	0.18	0.20	Bryan	06/17/22 11:34 ATG	EPA 351.2 R2.0	M145679	NEL
Nitrite as N		<0.01	mg/L	J (0.006)	0.002	0.002	0.01	Austin	06/08/22 12:30 JLL	SM4500 NO2- B 2011	M145614	NEL
Nitrate/Nitrite as N		1.22	mg/L		0.02	0.02	0.02	Bryan	06/09/22 09:43 ASR	SM4500-NO3-F 2011	M145660	ANR
Nitrogen, Total		1.69	mg/L			0.220	0.220	Calc	06/17/22 11:34 ATG	Calculation	[CALC]	ANR
Turbidity		4.3	NTU		0.1	0.1	1.0	Austin	06/08/22 08:00 BEB	SM2130 B 2011	M145566	NEL

Microbiological Analyses

E. Coli		34.5	MPN/100 mL		1.0	1.0	1.0	Austin	06/07/22 16:48 ASF	SM9223 B 2004	M145558	NEL
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Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.

Metals (Total)

Phosphorus-Total		0.076	mg/L		0.082	0.041	0.050	Bryan	06/15/22 12:56 MRG	EPA 200.7 R4.4	M145597	NEL
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Power Eng Creek Monitoring Site #4

Collected: 06/07/22 11:25 by CLIENT
 Received: 06/07/22 15:07 by Brianna Burke

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F017605

Lab ID#	F017605-04	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		4	mg/L		1	1	1	Austin	06/08/22 07:40 HNJ	SM5210 B 2016	M145574	NEL
Total Suspended Solids		7	mg/L		1	1	1	Austin	06/09/22 08:24 ASF	SM2540 D 2015	M145621	NEL
Total Dissolved Solids		484	mg/L		25.0	50.0	50.0	Austin	06/09/22 14:22 ASF	SM2540 C 2015	M145702	NEL
Total Kjeldahl Nitrogen as N		22.4	mg/L		0.18	0.18	0.20	Bryan	06/17/22 11:34 ATG	EPA 351.2 R2.0	M145680	NEL
Nitrite as N		0.06	mg/L		0.002	0.002	0.01	Austin	06/08/22 12:30 JLL	SM4500 NO2- B 2011	M145614	NEL
Nitrate/Nitrite as N		0.82	mg/L		0.02	0.02	0.02	Bryan	06/09/22 09:43 ASR	SM4500-NO3-F 2011	M145660	ANR
Nitrogen, Total		23.2	mg/L			0.220	0.220	Calc	06/17/22 11:34 ATG	Calculation	[CALC]	ANR
Turbidity		5.8	NTU		0.1	0.1	1.0	Austin	06/08/22 08:00 BEB	SM2130 B 2011	M145567	NEL

Microbiological Analyses

E. Coli		727	MPN/100 mL		1.0	1.0	1.0	Austin	06/07/22 16:48 ASF	SM9223 B 2004	M145558	NEL
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Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.

Metals (Total)

Phosphorus-Total		0.902	mg/L		0.082	0.041	0.050	Bryan	06/15/22 12:59 MRG	EPA 200.7 R4.4	M145597	NEL
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 635 Phil Gramm Boulevard
 Bryan, TX 77807
 Phone: (979) 778-3707
 Fax: (979) 778-3193



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
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F017605-04 - re-analysis	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry											
Ammonia as N	9.33	mg/L	C-02, MS-01	0.05	0.05	0.05	Bryan	06/16/22 13:58 ATG	SM4500-NH3 G 2011	M145934	NEL

Power Eng Creek Monitoring Site #5			Collected: 06/07/22 12:10 by CLIENT Received: 06/07/22 15:07 by Brianna Burke				Type Grab	Matrix Non Potable		C-O-C # F017605			
Lab ID#	F017605-05	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch		
General Chemistry													
Carbonaceous BOD (5 day)	3	mg/L			1	1	1	Austin	06/08/22 07:40 HNJ	SM5210 B 2016	M145574	NEL	
Total Suspended Solids	8	mg/L			1	1	1	Austin	06/09/22 08:24 ASF	SM2540 D 2015	M145621	NEL	
Total Dissolved Solids	462	mg/L			25.0	50.0	50.0	Austin	06/09/22 14:22 ASF	SM2540 C 2015	M145702	NEL	
Total Kjeldahl Nitrogen as N	9.74	mg/L			0.18	0.18	0.20	Bryan	06/17/22 11:34 ATG	EPA 351.2 R2.0	M145680	NEL	
Nitrite as N	0.20	mg/L			0.002	0.007	0.04	Austin	06/08/22 12:30 JLL	SM4500 NO2- B 2011	M145614	NEL	
Nitrate/Nitrite as N	1.00	mg/L			0.02	0.02	0.02	Bryan	06/09/22 09:43 ASR	SM4500-NO3-F 2011	M145660	ANR	
Nitrogen, Total	10.7	mg/L					0.220	0.220	Calc	06/17/22 11:34 ATG	Calculation	[CALC]	ANR
Turbidity	6.7	NTU			0.1	0.1	1.0	Austin	06/08/22 08:00 BEB	SM2130 B 2011	M145566	NEL	

Microbiological Analyses												
E. Coli	356	MPN/100 mL			1.0	1.0	1.0	Austin	06/07/22 16:48 ASF	SM9223 B 2004	M145558	NEL

Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.

Metals (Total)												
Phosphorus-Total	0.996	mg/L			0.082	0.049	0.060	Bryan	06/22/22 13:40 CAK	EPA 200.7 R4.4	M145654	NEL

F017605-05 - re-analysis	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry											
Ammonia as N	8.80	mg/L	C-02, MS-01	0.05	0.05	0.05	Bryan	06/16/22 13:58 ATG	SM4500-NH3 G 2011	M145934	NEL

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
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 Fax: (512) 301-9552

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Power Eng Creek Monitoring Site #6

Collected: 06/07/22 12:40 by CLIENT
 Received: 06/07/22 15:07 by Brianna Burke

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F017605

Lab ID#	F017605-06	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		3	mg/L		1	1	1	Austin	06/08/22 07:40 HNJ	SM5210 B 2016	M145574	NEL
Total Suspended Solids		5	mg/L		1	1	1	Austin	06/09/22 08:24 ASF	SM2540 D 2015	M145621	NEL
Total Dissolved Solids		446	mg/L		25.0	50.0	50.0	Austin	06/09/22 14:22 ASF	SM2540 C 2015	M145702	NEL
Total Kjeldahl Nitrogen as N		5.82	mg/L		0.18	0.18	0.20	Bryan	06/17/22 11:34 ATG	EPA 351.2 R2.0	M145680	NEL
Nitrite as N		0.51	mg/L		0.002	0.02	0.08	Austin	06/08/22 12:30 JLL	SM4500 NO2- B 2011	M145614	NEL
Nitrate/Nitrite as N		1.87	mg/L		0.02	0.02	0.02	Bryan	06/09/22 09:43 ASR	SM4500-NO3-F 2011	M145660	ANR
Nitrogen, Total		7.69	mg/L			0.220	0.220	Calc	06/17/22 11:34 ATG	Calculation	[CALC]	ANR
Turbidity		5.1	NTU		0.1	0.1	1.0	Austin	06/08/22 08:00 BEB	SM2130 B 2011	M145566	NEL

Microbiological Analyses

E. Coli		4080	MPN/100 mL		1.0	100	100	Austin	06/07/22 16:48 ASF	SM9223 B 2004	M145558	NEL
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Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.

Metals (Total)

Phosphorus-Total		0.804	mg/L		0.082	0.041	0.050	Bryan	06/17/22 18:53 CAK	EPA 200.7 R4.4	M145655	NEL
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F017605-06 - re-analysis

Lab ID#	F017605-06 - re-analysis	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Ammonia as N		5.39	mg/L	C-02, MS-01	0.05	0.05	0.05	Bryan	06/16/22 13:58 ATG	SM4500-NH3 G 2011	M145934	NEL

Explanation of Notes

BOD-07	Optional second BOD/CBOD GG was outside expected range. Results accepted on one required passing GG.
C-02	Result confirmed by re-analysis.
J	Analyte detected below the SQL but above the MDL.
MS-01	The MS and/or MSD recovery was outside acceptance limits. Investigation concludes it is a sample- specific matrix effect and the batch was accepted based on acceptable LCS and/or LCSD recovery.

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
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 Fax: (512) 301-9552

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General Chemistry - Quality Control													
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	
Ammonia as N - SM4500-NH3 G 2011													<i>Bryan</i>
Initial Cal Check	1.04	mg/L			06/13/22 11:01 ATG	1.00		104	90 - 110			2206166	
Low Cal Check	0.04	mg/L			06/13/22 11:01 ATG	0.0500		90.0	70 - 130			2206166	
Blank	<0.05	mg/L	0.05	0.05	06/13/22 11:01 ATG							M145837	
LCS	0.50	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500		99.8	85 - 115			M145837	
LCS Dup	0.50	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500		100	85 - 115	0.400	10	M145837	
Matrix Spike	0.54	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500	<0.05	107	70 - 130			M145837	
Matrix Spike Dup	0.54	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500	<0.05	107	70 - 130	0.00	20	M145837	
Blank	<0.05	mg/L	0.05	0.05	06/13/22 11:01 ATG							M145838	
LCS	0.51	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500		102	85 - 115			M145838	
LCS Dup	0.51	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500		103	85 - 115	0.783	10	M145838	
Matrix Spike	0.58	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500	0.06	103	70 - 130			M145838	
Matrix Spike Dup	0.58	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500	0.06	103	70 - 130	0.00	20	M145838	
Blank	<0.05	mg/L	0.05	0.05	06/13/22 11:01 ATG							M145839	
LCS	0.52	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500		103	85 - 115			M145839	
LCS Dup	0.52	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500		103	85 - 115	0.194	10	M145839	
Matrix Spike	0.62	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500	0.10	104	70 - 130			M145839	
Matrix Spike Dup	0.62	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500	0.10	103	70 - 130	0.386	20	M145839	
Blank	<0.05	mg/L	0.05	0.05	06/13/22 11:01 ATG							M145842	
LCS	0.53	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500		106	85 - 115			M145842	
LCS Dup	0.53	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500		106	85 - 115	0.188	10	M145842	
Matrix Spike	0.60	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500	0.08	102	70 - 130			M145842	
Matrix Spike Dup	0.59	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500	0.08	102	70 - 130	0.391	20	M145842	
Initial Cal Check	5.27	mg/L			06/16/22 13:58 ATG	5.00		105	90 - 110			2206201	
Low Cal Check	0.49	mg/L			06/16/22 13:58 ATG	0.500		97.4	70 - 130			2206201	
Blank	<0.05	mg/L	0.05	0.05	06/16/22 13:58 ATG							M145934	
LCS	2.22	mg/L	0.05	0.05	06/16/22 13:58 ATG	2.00		111	85 - 115			M145934	
LCS Dup	2.25	mg/L	0.05	0.05	06/16/22 13:58 ATG	2.00		112	85 - 115	1.25	10	M145934	
Matrix Spike	26.8	mg/L	0.28	0.31	06/16/22 13:58 ATG	18.0	21.5	29.5	70 - 130			M145934	
Matrix Spike Dup	27.4	mg/L	0.28	0.31	06/16/22 13:58 ATG	18.0	21.5	33.1	70 - 130	11.6	20	M145934	
MRL Check	0.49	mg/L	0.05	0.05	06/16/22 13:58 ATG	0.500		97.4	70 - 130			M145934	
Initial Cal Check	1.08	mg/L			06/16/22 15:02 ATG	1.00		108	90 - 110			2206214	
Low Cal Check	0.04	mg/L			06/16/22 15:02 ATG	0.0500		86.0	70 - 130			2206214	
Blank	<0.05	mg/L	0.05	0.05	06/16/22 15:02 ATG							M145997	
LCS	0.51	mg/L	0.05	0.05	06/16/22 15:02 ATG	0.500		102	85 - 115			M145997	
LCS Dup	0.51	mg/L	0.05	0.05	06/16/22 15:02 ATG	0.500		102	85 - 115	0.196	10	M145997	
Matrix Spike	0.54	mg/L	0.05	0.05	06/16/22 15:02 ATG	0.500	<0.05	107	70 - 130			M145997	

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



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 Austin, TX 78744
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General Chemistry - Quality Control													
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	
Ammonia as N - SM4500-NH3 G 2011													<i>Bryan</i>
Matrix Spike Dup	0.53	mg/L	0.05	0.05	06/16/22 15:02 ATG	0.500	<0.05	107	70 - 130	0.187	20	M145997	
MRL Check	<0.05	mg/L	0.00	0.05	06/16/22 15:02 ATG	0.0500		86.0	70 - 130			M145997	
Carbonaceous BOD (5 day) - SM5210 B 2016													<i>Austin</i>
Diln Water Blk	<0.20	mg/L	1	1	06/08/22 07:40 HNJ		0.1		< or = 0.2 mg/L			2206101	
GGA	184	mg/L	1	1	06/08/22 07:40 HNJ	198		92.9	84.6 - 115.4			2206101	
GGA	199	mg/L	1	1	06/08/22 07:40 HNJ	198		101	84.6 - 115.4			2206101	
GGA	166	mg/L	1	1	06/08/22 07:40 HNJ	198		83.8	84.6 - 115.4			2206101	
Seed Blank	<1	mg/L	1	1	06/08/22 07:40 HNJ							2206101	
Seed Blank	<1	mg/L	1	1	06/08/22 07:40 HNJ							2206101	
Seed Blank	<1	mg/L	1	1	06/08/22 07:40 HNJ							2206101	
Duplicate	2	mg/L	1	1	06/08/22 07:40 HNJ		2			9.06	40.6	M145574	
Nitrate/Nitrite as N - SM4500-NO3-F 2011													<i>Bryan</i>
Initial Cal Check	0.77	mg/L			06/09/22 09:43 ASR	0.740		104	90 - 110			2206124	
Low Cal Check	0.02	mg/L			06/09/22 09:43 ASR	0.0200		75.0	70 - 130			2206124	
Blank	<0.02	mg/L	0.02	0.02	06/09/22 09:43 ASR							M145660	
LCS	0.51	mg/L	0.02	0.02	06/09/22 09:43 ASR	0.500		101	90.1 - 115			M145660	
LCS Dup	0.51	mg/L	0.02	0.02	06/09/22 09:43 ASR	0.500		101	90.1 - 115	0.00	6.1	M145660	
Matrix Spike	7.05	mg/L	0.10	0.12	06/09/22 09:43 ASR	4.50	2.38	104	84.8 - 120			M145660	
Matrix Spike Dup	7.07	mg/L	0.10	0.12	06/09/22 09:43 ASR	4.50	2.38	104	84.8 - 120	0.427	8.35	M145660	
Nitrite as N - SM4500 NO2- B 2011													<i>Austin</i>
Initial Cal Check	0.08	mg/L			06/08/22 12:30 JLL	0.0806		102	90 - 110			2206111	
Low Cal Check	0.008	mg/L			06/08/22 12:30 JLL	0.0100		78.8	0 - 200			2206111	
Blank	<0.01	mg/L	0.002	0.01	06/08/22 12:30 JLL							M145614	
LCS	0.09	mg/L	0.002	0.01	06/08/22 12:30 JLL	0.0800		107	90 - 110			M145614	
Matrix Spike	0.10	mg/L	0.002	0.01	06/08/22 12:30 JLL	0.0800	0.02	100	74.6 - 107			M145614	
Matrix Spike Dup	0.10	mg/L	0.002	0.01	06/08/22 12:30 JLL	0.0800	0.02	98.7	74.6 - 107	1.35	4.22	M145614	
MRL Check	<0.01	mg/L	0.002	0.01	06/08/22 12:30 JLL	0.0100		78.8	70 - 130			M145614	
Initial Cal Check	0.11	mg/L			10/06/21 08:31 SR	0.100		107	90 - 110			2110050	
Total Dissolved Solids - SM2540 C 2015													<i>Austin</i>
Blank	<25.0	mg/L	25.0	25.0	06/09/22 14:22 ASF							M145702	
Duplicate	456	mg/L	50.0	50.0	06/09/22 14:22 ASF		484			5.96	13.9	M145702	
Reference	648	mg/L	100	100	06/09/22 14:22 ASF	500		130	66 - 140			M145702	

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



AUSTIN OFFICE
 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

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General Chemistry - Quality Control												
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Total Kjeldahl Nitrogen as N - EPA 351.2 R2.0												<i>Bryan</i>
Low Cal Check	0.25	mg/L			06/17/22 11:34 ATG	0.200		124	70 - 130			2206233
Blank	<0.20	mg/L	0.18	0.20	06/17/22 11:34 ATG							M145679
LCS	7.88	mg/L	0.18	0.20	06/17/22 11:34 ATG	8.00		98.5	85 - 115			M145679
LCS Dup	7.83	mg/L	0.18	0.20	06/17/22 11:34 ATG	8.00		97.9	85 - 115	0.628	10	M145679
Matrix Spike	7.89	mg/L	0.18	0.20	06/17/22 11:34 ATG	8.00	0.83	88.2	70 - 130			M145679
Matrix Spike Dup	7.53	mg/L	0.18	0.20	06/17/22 11:34 ATG	8.00	0.83	83.7	70 - 130	5.20	20	M145679
Reference	5.11	mg/L	0.18	0.20	06/17/22 11:34 ATG	5.18		98.5	90 - 110			M145679
Blank	<0.20	mg/L	0.18	0.20	06/17/22 11:34 ATG							M145680
LCS	7.88	mg/L	0.18	0.20	06/17/22 11:34 ATG	8.00		98.5	85 - 115			M145680
LCS Dup	7.83	mg/L	0.18	0.20	06/17/22 11:34 ATG	8.00		97.9	85 - 115	0.628	10	M145680
Matrix Spike	8.25	mg/L	0.18	0.20	06/17/22 11:34 ATG	8.00	0.57	96.0	70 - 130			M145680
Matrix Spike Dup	8.43	mg/L	0.18	0.20	06/17/22 11:34 ATG	8.00	0.57	98.2	70 - 130	2.27	20	M145680
Reference	5.11	mg/L	0.18	0.20	06/17/22 11:34 ATG	5.18		98.5	90 - 110			M145680
Total Suspended Solids - SM2540 D 2015												<i>Austin</i>
Blank	<1	mg/L	1	1	06/09/22 08:24 ASF							M145621
Duplicate	8	mg/L	1	1	06/09/22 08:24 ASF		8			5.57	37.6	M145621
Turbidity - SM2130 B 2011												<i>Austin</i>
Initial Cal Check	4.1	NTU			05/11/22 09:15 SN	4.06		102	90 - 110			2205118
Initial Cal Check	4.5	NTU			06/08/22 08:00 BEB	4.06		110	90 - 110			2206097
Low Cal Check	1.2	NTU			06/08/22 08:00 BEB	1.01		115	0 - 200			2206097
Blank	<1.0	NTU	0.1	1.0	06/08/22 08:00 BEB							M145566
Duplicate	<1.0	NTU	0.1	1.0	06/08/22 08:00 BEB		<1.0			6.32	25.5	M145566
MRL Check	1.2	NTU	0.1	1.0	06/08/22 08:00 BEB	1.01		115	70 - 130			M145566
Blank	<1.0	NTU	0.1	1.0	06/08/22 08:00 BEB							M145567
Duplicate	5.2	NTU	0.1	1.0	06/08/22 08:00 BEB		5.8			12.1	25.5	M145567
Metals (Total) - Quality Control												
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch

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



AUSTIN OFFICE
 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

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Metals (Total) - Quality Control

Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Phosphorus-Total - EPA 200.7 R4.4												<i>Bryan</i>
Blank	<0.050	mg/L	0.041	0.050	06/15/22 12:23 MRG							M145597
LCS	2.55	mg/L	0.041	0.050	06/15/22 12:26 MRG	2.50		102	84.5 - 115.4			M145597
LCS Dup	2.56	mg/L	0.041	0.050	06/15/22 12:29 MRG	2.50		103	84.5 - 115.4	0.719	20	M145597
Duplicate	4.70	mg/L	0.041	0.050	06/15/22 12:32 MRG		5.19			9.91	20	M145597
Matrix Spike	7.27	mg/L	0.041	0.050	06/15/22 12:45 MRG	2.50	5.19	83.1	69.5 - 130.4			M145597
Blank	<0.050	mg/L	0.041	0.050	06/17/22 18:37 CAK							M145655
LCS	5.30	mg/L	0.041	0.050	06/17/22 18:40 CAK	5.00		106	84.5 - 115.4			M145655
LCS Dup	5.31	mg/L	0.041	0.050	06/17/22 18:43 CAK	5.00		106	84.5 - 115.4	0.278	20	M145655
Duplicate	3.36	mg/L	0.041	0.050	06/17/22 18:46 CAK		3.32			1.24	20	M145655
Matrix Spike	8.38	mg/L	0.041	0.050	06/17/22 18:49 CAK	5.00	3.32	101	69.5 - 130.4			M145655
Blank	<0.060	mg/L	0.049	0.060	06/22/22 13:19 CAK							M145654
LCS	2.64	mg/L	0.049	0.060	06/22/22 13:21 CAK	2.50		106	84.5 - 115.4			M145654
LCS Dup	2.64	mg/L	0.049	0.060	06/22/22 13:24 CAK	2.50		106	84.5 - 115.4	0.0589	20	M145654
Duplicate	0.514	mg/L	0.049	0.060	06/22/22 13:27 CAK		0.512			0.520	20	M145654
Matrix Spike	3.57	mg/L	0.049	0.060	06/22/22 13:30 CAK	2.50	0.512	122	69.5 - 130.4			M145654

Microbiological Analyses - Quality Control

Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	Log10 Comparison Range	Control Limit	Batch
E. Coli - SM9223 B 2004												<i>Austin</i>
Blank	<1.0	MPN/100 mL	1.0	1.0	06/07/22 15:51 ASF							M145558
Dup Log10 Range		MPN/100 mL	1.0	1.0	06/07/22 16:48 ASF					0.000		M145558
Duplicate	<1.0	MPN/100 mL	1.0	1.0	06/07/22 16:48 ASF		<1.0				0.564	M145558

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



AUSTIN OFFICE
 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

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Sample Preparation Summary

Sample	Method	Prepared	Lab	Bottle	Initial	Units	Final	Units	External Dilution Factor	Batch
F017605-01										
Carbonaceous BOD (5 day)	SM5210 B 2016	6/8/22 7:40 HNJ	Austin	B	300	mL	300	mL	1	M145574
E. Coli	SM9223 B 2004	6/7/22 16:36 ASF	Austin	C	100	N/A	100	N/A	1	M145558
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/9/22 8:26 ASR	Bryan	A	10.0	mL	10.0	mL	1	M145660
Nitrite as N	SM4500 NO2- B 2011	6/8/22 12:30 JLL	Austin	D	25.0	mL	25.0	mL	1	M145614
Phosphorus-Total	EPA 200.7 R4.4	6/8/22 10:26 CAK	Bryan	E	50.0	mL	25.0	mL	1	M145597
Total Dissolved Solids	SM2540 C 2015	6/9/22 14:22 ASF	Austin	D	50.0	mL	100	mL	1	M145702
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/9/22 10:37 ASR	Bryan	A	25.0	mL	25.0	mL	1	M145679
Total Suspended Solids	SM2540 D 2015	6/9/22 8:24 ASF	Austin	F	1000	mL	1000	mL	1	M145621
Turbidity	SM2130 B 2011	6/8/22 8:00 BEB	Austin	G	10.0	mL	10.0	mL	1	M145566
F017605-01RE2										
Ammonia as N	SM4500-NH3 G 2011	6/16/22 10:05 ATG	Bryan	A	10.0	mL	10.0	mL	1	M145997
F017605-02										
Ammonia as N	SM4500-NH3 G 2011	6/13/22 8:36 ATG	Bryan	A	10.0	mL	10.0	mL	1	M145842
Carbonaceous BOD (5 day)	SM5210 B 2016	6/8/22 7:40 HNJ	Austin	B	300	mL	300	mL	1	M145574
E. Coli	SM9223 B 2004	6/7/22 16:36 ASF	Austin	C	100	N/A	100	N/A	1	M145558
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/9/22 8:26 ASR	Bryan	A	10.0	mL	10.0	mL	1	M145660
Nitrite as N	SM4500 NO2- B 2011	6/8/22 12:30 JLL	Austin	D	25.0	mL	25.0	mL	1	M145614
Phosphorus-Total	EPA 200.7 R4.4	6/8/22 10:26 CAK	Bryan	E	50.0	mL	25.0	mL	1	M145597
Total Dissolved Solids	SM2540 C 2015	6/9/22 14:22 ASF	Austin	D	50.0	mL	100	mL	1	M145702
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/9/22 10:37 ASR	Bryan	A	25.0	mL	25.0	mL	1	M145679
Total Suspended Solids	SM2540 D 2015	6/9/22 8:24 ASF	Austin	F	1000	mL	1000	mL	1	M145621
Turbidity	SM2130 B 2011	6/8/22 8:00 BEB	Austin	G	10.0	mL	10.0	mL	1	M145566
F017605-03										
Ammonia as N	SM4500-NH3 G 2011	6/13/22 8:36 ATG	Bryan	A	10.0	mL	10.0	mL	1	M145838
Carbonaceous BOD (5 day)	SM5210 B 2016	6/8/22 7:40 HNJ	Austin	B	300	mL	300	mL	1	M145574
E. Coli	SM9223 B 2004	6/7/22 16:36 ASF	Austin	C	100	N/A	100	N/A	1	M145558
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/9/22 8:26 ASR	Bryan	A	10.0	mL	10.0	mL	1	M145660
Nitrite as N	SM4500 NO2- B 2011	6/8/22 12:30 JLL	Austin	D	25.0	mL	25.0	mL	1	M145614
Phosphorus-Total	EPA 200.7 R4.4	6/8/22 10:26 CAK	Bryan	E	50.0	mL	25.0	mL	1	M145597
Total Dissolved Solids	SM2540 C 2015	6/9/22 14:22 ASF	Austin	D	50.0	mL	100	mL	1	M145702
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/9/22 10:37 ASR	Bryan	A	25.0	mL	25.0	mL	1	M145679
Total Suspended Solids	SM2540 D 2015	6/9/22 8:24 ASF	Austin	F	1000	mL	1000	mL	1	M145621
Turbidity	SM2130 B 2011	6/8/22 8:00 BEB	Austin	G	10.0	mL	10.0	mL	1	M145566

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



AUSTIN OFFICE
 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

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Sample Preparation Summary

Sample	Method	Prepared	Lab	Bottle	Initial	Units	Final	Units	External Dilution Factor	Batch
F017605-04										
Carbonaceous BOD (5 day)	SM5210 B 2016	6/8/22 7:40 HNJ	Austin	B	300	mL	300	mL	1	M145574
E. Coli	SM9223 B 2004	6/7/22 16:36 ASF	Austin	C	100	N/A	100	N/A	1	M145558
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/9/22 8:26 ASR	Bryan	A	10.0	mL	10.0	mL	1	M145660
Nitrite as N	SM4500 NO2- B 2011	6/8/22 12:30 JLL	Austin	D	25.0	mL	25.0	mL	1	M145614
Phosphorus-Total	EPA 200.7 R4.4	6/8/22 10:26 CAK	Bryan	E	50.0	mL	25.0	mL	1	M145597
Total Dissolved Solids	SM2540 C 2015	6/9/22 14:22 ASF	Austin	D	50.0	mL	100	mL	1	M145702
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/9/22 10:37 ASR	Bryan	A	25.0	mL	25.0	mL	1	M145680
Total Suspended Solids	SM2540 D 2015	6/9/22 8:24 ASF	Austin	F	1000	mL	1000	mL	1	M145621
Turbidity	SM2130 B 2011	6/8/22 8:00 BEB	Austin	G	10.0	mL	10.0	mL	1	M145567
F017605-04RE1										
Ammonia as N	SM4500-NH3 G 2011	6/16/22 11:55 ATG	Bryan	A	10.0	mL	10.0	mL	1	M145934
F017605-05										
Carbonaceous BOD (5 day)	SM5210 B 2016	6/8/22 7:40 HNJ	Austin	B	300	mL	300	mL	1	M145574
E. Coli	SM9223 B 2004	6/7/22 16:36 ASF	Austin	C	100	N/A	100	N/A	1	M145558
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/9/22 8:26 ASR	Bryan	A	10.0	mL	10.0	mL	1	M145660
Nitrite as N	SM4500 NO2- B 2011	6/8/22 12:30 JLL	Austin	D	7.00	mL	25.0	mL	1	M145614
Phosphorus-Total	EPA 200.7 R4.4	6/9/22 9:00 ABM	Bryan	E	50.0	mL	30.0	mL	1	M145654
Total Dissolved Solids	SM2540 C 2015	6/9/22 14:22 ASF	Austin	D	50.0	mL	100	mL	1	M145702
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/9/22 10:37 ASR	Bryan	A	25.0	mL	25.0	mL	1	M145680
Total Suspended Solids	SM2540 D 2015	6/9/22 8:24 ASF	Austin	F	1000	mL	1000	mL	1	M145621
Turbidity	SM2130 B 2011	6/8/22 8:00 BEB	Austin	G	10.0	mL	10.0	mL	1	M145566
F017605-05RE1										
Ammonia as N	SM4500-NH3 G 2011	6/16/22 11:55 ATG	Bryan	A	10.0	mL	10.0	mL	1	M145934
F017605-06										
Carbonaceous BOD (5 day)	SM5210 B 2016	6/8/22 7:40 HNJ	Austin	B	300	mL	300	mL	1	M145574
E. Coli	SM9223 B 2004	6/7/22 16:36 ASF	Austin	C	1.00	N/A	100	N/A	1	M145558
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/9/22 8:26 ASR	Bryan	A	10.0	mL	10.0	mL	1	M145660
Nitrite as N	SM4500 NO2- B 2011	6/8/22 12:30 JLL	Austin	D	3.00	mL	25.0	mL	1	M145614
Phosphorus-Total	EPA 200.7 R4.4	6/9/22 9:00 ABM	Bryan	E	50.0	mL	25.0	mL	1	M145655
Total Dissolved Solids	SM2540 C 2015	6/9/22 14:22 ASF	Austin	D	50.0	mL	100	mL	1	M145702
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/9/22 10:37 ASR	Bryan	A	25.0	mL	25.0	mL	1	M145680
Total Suspended Solids	SM2540 D 2015	6/9/22 8:24 ASF	Austin	F	1000	mL	1000	mL	1	M145621
Turbidity	SM2130 B 2011	6/8/22 8:00 BEB	Austin	G	10.0	mL	10.0	mL	1	M145566
F017605-06RE1										
Ammonia as N	SM4500-NH3 G 2011	6/16/22 11:55 ATG	Bryan	A	10.0	mL	10.0	mL	1	M145934

Chain-of-Custody and Analysis Request



Aqua-Tech laboratories, Inc.

C-O-C #

Client / Project Name: Power Engineers
Power Eng Quote 4917

Austin **Bryan**
3512 Montopolis Dr. 635 Phil Gramm Blvd.
Austin, TX 78744 Bryan, TX 77807
512.301.9559 979.778.3707

F017605

Page 1 of 2

Contact Information
Name: Rob Von Czoernig
Address: -
City: -
State: - Zip: -
Phone: -
email: -

Definitions
DW Drinking Water
NP Non-Potable Water
S Solid
CM Custody Maintained
CTU Custody Transfer Unbroken
CT Corrected Temperature

Reagent tracking is available upon request.

T104704371
TX239

Test results meet all accreditation/certification requirements unless stated otherwise.

re_ATL COC
102720.rpt

Sample Custody

Relinquished (print & sign) <i>STEVE MCVEY</i> <i>Steve McVey</i>	<input type="checkbox"/> Sampler <input type="checkbox"/> Client <input type="checkbox"/> ATL Field	Date: 6/7/22 Time: 1350	<input type="checkbox"/> Iced / Refrig <input type="checkbox"/> Custody Sealed
Received (print & sign) <i>Brianna Burke</i> <i>Burke</i>	<input type="checkbox"/> Client <input checked="" type="checkbox"/> ATL Field	Date: 6/7/22 Time: 1350	<input checked="" type="checkbox"/> Iced / Refrig <input checked="" type="checkbox"/> CM / CTU
Relinquished (print & sign)	<input type="checkbox"/> Client <input type="checkbox"/> ATL Field	Date: _____ Time: _____	<input type="checkbox"/> Iced / Refrig <input type="checkbox"/> CM / CTU
Received (print & sign)	<input type="checkbox"/> Client <input type="checkbox"/> ATL Field	Date: _____ Time: _____	<input type="checkbox"/> Iced / Refrig <input type="checkbox"/> CM / CTU
Relinquished (print & sign) <i>Burke</i>	<input type="checkbox"/> Client <input checked="" type="checkbox"/> ATL Field	Date: 06/07/22 Time: 15:07	<input checked="" type="checkbox"/> Iced / Refrig <input type="checkbox"/> CM / CTU / Sealed
Received (print & sign) <i>Burke</i>	<input checked="" type="checkbox"/> Client <input checked="" type="checkbox"/> Lab	Date: 06/07/22 Time: 15:07	<input checked="" type="checkbox"/> Cond Good <input checked="" type="checkbox"/> Iced / Refrig <input type="checkbox"/> CM / CTU

Analyses Rerquested: "A" prefix indicates Austin, all others Bryan or Subcontracted, indicated by [SUB]. Name format: Analysis-Matrix-Technology-Method.

[NEL] = NELAP accredited parameter [CNR] = No NELAP accreditation required or available
[SUB] = NELAP accredited subcontracted parameter [INF] = Informational only (not NELAC certified)

By relinquishing the samples listed below to Aqua-Tech laboratories, Inc. (ATL), the client agrees to the following terms. Samples will be analyzed by a method that is within ATL's NELAP fields of accreditation (FoA). Analytes requiring an accredited method that is not within ATL's FoA will be subcontracted to a NELAP lab that is accredited for that method. Clients will be notified of the subcontract lab's details. Other analytes not requiring accreditation will be analyzed by a compendial method. If a specific method is required, the client will note the method in the "Analysis Requested" column. The client approves all method modifications documented by ATL or the subcontract lab.

A current list of ATL's NELAC fields of accreditation and other methods are available on request.

Comments:

F017605 - LAB RECEIPT - AQU5

Temperature - CT (C): 2.1

Preservation Correct: Yes

Post-Preservatives: N/A

Thermometer ID: 0715672

pH Paper ID: 0789433

rintwko_A COC 042120.rpt

Field Sample ID	Start Date	Start Time	End Date	End Time	Composite Type	Sample Matrix	Container (Checked box indicates bottle arrived in lab) (Volume - Type - Preservative)	Lab ID
Power Eng Creek Monitoring Site #1	6/7/22	1000	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 2L <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 2L <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F017605-01
Power Eng Creek Monitoring Site #2	6/7/22	1035	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 2L <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 2L <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F017605-02
Power Eng Creek Monitoring Site #3	6/7/22	1105	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 2L <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 2L <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F017605-03

Client : Power Engineers

Field Sample ID	Start Date Time	End Date Time	Composite Type	Sample Matrix	Container (Checked box indicates bottle arrived in lab) (Volume - Type - Preservative)	Lab ID
Power Eng Creek Monitoring Site #4	6/7/22 1125	- N/A - - N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 \checkmark <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 \checkmark <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F017605-04
A CBOD NP Probe SM 5210 B [NEL] A TDS NP Grav SM2540 C [NEL] N Total Calc NP [CNR] P NP ICP EPA 200.7 [NEL]	A E.Coli MPN SM9223 B [NEL] A TSS NP Grav SM 2540 D [NEL] NH3N NP AUTO SM 4500 G [NEL] TKN NP AUTO EPA 351.2 [NEL]	A NO2N NP Spec SM4500 NO2 B [NEL] A Turbidity Neph SM2130 B [NEL] NO3N + NO2N NP RFA SM4500 NO3 F [CNR] Y Billing N Total Calc				
Power Eng Creek Monitoring Site #5	6/7/22 1210	- N/A - - N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 \checkmark <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 \checkmark <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F017605-05
A CBOD NP Probe SM 5210 B [NEL] A TDS NP Grav SM2540 C [NEL] N Total Calc NP [CNR] P NP ICP EPA 200.7 [NEL]	A E.Coli MPN SM9223 B [NEL] A TSS NP Grav SM 2540 D [NEL] NH3N NP AUTO SM 4500 G [NEL] TKN NP AUTO EPA 351.2 [NEL]	A NO2N NP Spec SM4500 NO2 B [NEL] A Turbidity Neph SM2130 B [NEL] NO3N + NO2N NP RFA SM4500 NO3 F [CNR] Y Billing N Total Calc				
Power Eng Creek Monitoring Site #6	6/7/22 1240	- N/A - - N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 \checkmark <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 \checkmark <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F017605-06
A CBOD NP Probe SM 5210 B [NEL] A TDS NP Grav SM2540 C [NEL] N Total Calc NP [CNR] P NP ICP EPA 200.7 [NEL]	A E.Coli MPN SM9223 B [NEL] A TSS NP Grav SM 2540 D [NEL] NH3N NP AUTO SM 4500 G [NEL] TKN NP AUTO EPA 351.2 [NEL]	A NO2N NP Spec SM4500 NO2 B [NEL] A Turbidity Neph SM2130 B [NEL] NO3N + NO2N NP RFA SM4500 NO3 F [CNR] Y Billing N Total Calc				

Email information for report date:
6/28/22 17:54
F018667

Power Engineers

Attn: Rob Von Czoernig
rob.vonczoernig@powereng.com

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**ATL has improperly reported the field parameters
pH, Chlorine, and DO as NEL Accredited.**

ATL is accredited for these parameters when they are performed in the lab. These field parameters are now being reported with an ANR, "Accreditation not offered by the State of Texas," indicator.

There is no impact to the result values that have been previously reported. Aqua-Tech values you as a customer and encourages you to speak with our staff at 979-778-3707 or samplingbryan@aquatechlabs.com if you have questions.

Thank you for your business,
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
3512 Montopolis Dr. Suite A
Austin, TX 78744
Phone: (512) 301-9559
Fax: (512) 301-9552

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 offered by the State of Texas.
- DWP Approval 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.

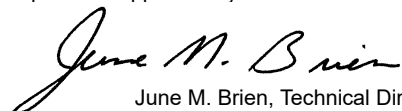
Copies of Aqua-Tech Laboratories, Inc. procedures and individual sampling plans are available upon request. Note that samples are collected by Aqua-Tech Laboratories, Inc. personnel unless otherwise noted in the "Sample Collected" field of this report as "Client" or "CLT".

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:


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.

corp@aquatechlabs.com

www.aquatechlabs.com

T104704371-21-24



TCEQ DW Lab ID TX 239

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



AUSTIN OFFICE
 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

Analytical Report

Power Engineers

Report Printed:

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F018667

Power Eng Creek Monitoring Site #1

Collected: 06/09/22 09:45 by CLIENT
 Received: 06/09/22 13:00 by Kelly Kukowski

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F018667

Lab ID#	F018667-01	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		<1	mg/L		1	1	1	Austin	06/10/22 07:30 HNJ	SM5210 B 2016	M145731	NEL
Total Suspended Solids		6	mg/L		1	1	1	Austin	06/10/22 11:26 KLJ	SM2540 D 2015	M145755	NEL
Total Dissolved Solids		282	mg/L		25.0	25.0	25.0	Austin	06/13/22 13:47 KLJ	SM2540 C 2015	M145819	NEL
Ammonia as N		0.09	mg/L		0.05	0.05	0.05	Bryan	06/13/22 11:01 ATG	SM4500-NH3 G 2011	M145839	NEL
Total Kjeldahl Nitrogen as N		0.58	mg/L		0.18	0.18	0.20	Bryan	06/17/22 11:34 ATG	EPA 351.2 R2.0	M145979	NEL
Nitrite as N		0.01	mg/L		0.002	0.002	0.01	Austin	06/09/22 15:08 JLL	SM4500 NO2- B 2011	M145669	NEL
Nitrate/Nitrite as N		0.81	mg/L		0.02	0.02	0.02	Bryan	06/14/22 10:08 ATG	SM4500-NO3-F 2011	M145871	ANR
Nitrogen, Total		1.38	mg/L			0.220	0.220	Calc	06/17/22 11:34 ATG	Calculation	[CALC]	ANR
Turbidity		6.5	NTU		0.1	0.1	1.0	Austin	06/10/22 12:43 SR	SM2130 B 2011	M145775	NEL
Microbiological Analyses												
E. Coli		37.3	MPN/100 mL		1.0	1.0	1.0	Austin	06/09/22 15:50 ASF	SM9223 B 2004	M145708	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total		0.076	mg/L		0.082	0.041	0.050	Bryan	06/17/22 17:13 CAK	EPA 200.7 R4.4	M145813	NEL

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



AUSTIN OFFICE
 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

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Power Eng Creek Monitoring Site #2

Collected: 06/09/22 10:10 by CLIENT
 Received: 06/09/22 13:00 by Kelly Kukowski

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F018667

Lab ID#	F018667-02	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		3	mg/L		1	1	1	Austin	06/10/22 07:30 HNJ	SM5210 B 2016	M145731	NEL
Total Suspended Solids		5	mg/L		1	1	1	Austin	06/10/22 11:26 KLJ	SM2540 D 2015	M145755	NEL
Total Dissolved Solids		298	mg/L		25.0	25.0	25.0	Austin	06/13/22 13:47 KLJ	SM2540 C 2015	M145819	NEL
Ammonia as N		0.06	mg/L		0.05	0.05	0.05	Bryan	06/13/22 11:01 ATG	SM4500-NH3 G 2011	M145839	NEL
Total Kjeldahl Nitrogen as N		0.71	mg/L		0.18	0.18	0.20	Bryan	06/24/22 11:44 ATG	EPA 351.2 R2.0	M146210	NEL
Nitrite as N		0.02	mg/L		0.002	0.002	0.01	Austin	06/09/22 15:08 JLL	SM4500 NO2- B 2011	M145669	NEL
Nitrate/Nitrite as N		1.71	mg/L		0.02	0.02	0.02	Bryan	06/14/22 10:08 ATG	SM4500-NO3-F 2011	M145871	ANR
Nitrogen, Total		2.42	mg/L			0.220	0.220	Calc	06/24/22 11:44 ATG	Calculation	[CALC]	ANR
Turbidity		4.3	NTU		0.1	0.1	1.0	Austin	06/10/22 12:43 SR	SM2130 B 2011	M145775	NEL
Microbiological Analyses												
E. Coli		84.5	MPN/100 mL		1.0	1.0	1.0	Austin	06/09/22 15:50 ASF	SM9223 B 2004	M145708	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total		0.095	mg/L		0.082	0.041	0.050	Bryan	06/17/22 17:16 CAK	EPA 200.7 R4.4	M145813	NEL

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



AUSTIN OFFICE
 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

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Power Eng Creek Monitoring Site #3

Collected: 06/09/22 10:45 by CLIENT
 Received: 06/09/22 13:00 by Kelly Kukowski

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F018667

Lab ID#	F018667-03	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		1	mg/L		1	1	1	Austin	06/10/22 07:30 HNJ	SM5210 B 2016	M145731	NEL
Total Suspended Solids		5	mg/L		1	1	1	Austin	06/10/22 11:26 KLJ	SM2540 D 2015	M145755	NEL
Total Dissolved Solids		276	mg/L		25.0	25.0	25.0	Austin	06/13/22 13:47 KLJ	SM2540 C 2015	M145819	NEL
Ammonia as N		<0.05	mg/L		0.05	0.05	0.05	Bryan	06/13/22 11:01 ATG	SM4500-NH3 G 2011	M145837	NEL
Total Kjeldahl Nitrogen as N		0.45	mg/L		0.18	0.18	0.20	Bryan	06/24/22 11:44 ATG	EPA 351.2 R2.0	M146210	NEL
Nitrite as N		<0.01	mg/L	J (0.009)	0.002	0.002	0.01	Austin	06/09/22 15:08 JLL	SM4500 NO2- B 2011	M145669	NEL
Nitrate/Nitrite as N		1.87	mg/L		0.02	0.02	0.02	Bryan	06/14/22 10:08 ATG	SM4500-NO3-F 2011	M145871	ANR
Nitrogen, Total		2.32	mg/L			0.220	0.220	Calc	06/24/22 11:44 ATG	Calculation	[CALC]	ANR
Turbidity		2.4	NTU		0.1	0.1	1.0	Austin	06/10/22 12:43 SR	SM2130 B 2011	M145776	NEL

Microbiological Analyses

E. Coli		60.5	MPN/100 mL		1.0	1.0	1.0	Austin	06/09/22 15:50 ASF	SM9223 B 2004	M145708	NEL
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Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.

Metals (Total)

Phosphorus-Total		0.085	mg/L		0.082	0.041	0.050	Bryan	06/17/22 18:17 CAK	EPA 200.7 R4.4	M145814	NEL
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Power Eng Creek Monitoring Site #4

Collected: 06/09/22 11:00 by CLIENT
 Received: 06/09/22 13:00 by Kelly Kukowski

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F018667

Lab ID#	F018667-04	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		<1	mg/L		1	1	1	Austin	06/10/22 07:30 HNJ	SM5210 B 2016	M145731	NEL
Total Suspended Solids		4	mg/L		1	1	1	Austin	06/10/22 11:26 KLJ	SM2540 D 2015	M145755	NEL
Total Dissolved Solids		420	mg/L		25.0	50.0	50.0	Austin	06/16/22 16:46 SR	SM2540 C 2015	M145505	NEL
Total Kjeldahl Nitrogen as N		3.34	mg/L		0.18	0.92	1.00	Bryan	06/24/22 11:44 ATG	EPA 351.2 R2.0	M146210	NEL
Nitrite as N		0.14	mg/L		0.002	0.003	0.02	Austin	06/09/22 15:08 JLL	SM4500 NO2- B 2011	M145669	NEL
Nitrate/Nitrite as N		3.31	mg/L		0.02	0.10	0.12	Bryan	06/14/22 10:08 ATG	SM4500-NO3-F 2011	M145871	ANR
Nitrogen, Total		6.65	mg/L			1.12	1.12	Calc	06/24/22 11:44 ATG	Calculation	[CALC]	ANR
Turbidity		2.5	NTU		0.1	0.1	1.0	Austin	06/10/22 12:43 SR	SM2130 B 2011	M145775	NEL

Microbiological Analyses

E. Coli		48.8	MPN/100 mL		1.0	1.0	1.0	Austin	06/09/22 15:50 ASF	SM9223 B 2004	M145708	NEL
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Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.

Metals (Total)

Phosphorus-Total		0.246	mg/L		0.082	0.041	0.050	Bryan	06/17/22 18:20 CAK	EPA 200.7 R4.4	M145814	NEL
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CORPORATE OFFICE
 635 Phil Gramm Boulevard
 Bryan, TX 77807
 Phone: (979) 778-3707
 Fax: (979) 778-3193



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

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F018667-04 - re-analysis	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry											
Ammonia as N	2.22	mg/L	MS-01	0.05	0.05	0.05	Bryan	06/16/22 13:58 ATG	SM4500-NH3 G 2011	M145934	NEL

Power Eng Creek Monitoring Site #5			Collected: 06/09/22 11:50 by CLIENT Received: 06/09/22 13:00 by Kelly Kukowski				Type Grab	Matrix Non Potable		C-O-C # F018667		
Lab ID#	F018667-05	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		1	mg/L		1	1	1	Austin	06/10/22 07:30 HNJ	SM5210 B 2016	M145731	NEL
Total Suspended Solids		4	mg/L		1	1	1	Austin	06/13/22 08:42 KLJ	SM2540 D 2015	M145796	NEL
Total Dissolved Solids		394	mg/L		25.0	50.0	50.0	Austin	06/16/22 16:46 SR	SM2540 C 2015	M145505	NEL
Ammonia as N		1.62	mg/L		0.05	0.05	0.05	Bryan	06/13/22 11:01 ATG	SM4500-NH3 G 2011	M145838	NEL
Total Kjeldahl Nitrogen as N		2.86	mg/L		0.18	0.92	1.00	Bryan	06/24/22 11:44 ATG	EPA 351.2 R2.0	M146210	NEL
Nitrite as N		0.30	mg/L		0.002	0.007	0.04	Austin	06/09/22 15:08 JLL	SM4500 NO2- B 2011	M145669	NEL
Nitrate/Nitrite as N		3.54	mg/L		0.02	0.10	0.12	Bryan	06/14/22 10:08 ATG	SM4500-NO3-F 2011	M145871	ANR
Nitrogen, Total		6.40	mg/L				1.12	Calc	06/24/22 11:44 ATG	Calculation	[CALC]	ANR
Turbidity		3.1	NTU		0.1	0.1	1.0	Austin	06/10/22 12:43 SR	SM2130 B 2011	M145775	NEL

Microbiological Analyses												
E. Coli		42.0	MPN/100 mL		1.0	1.0	1.0	Austin	06/09/22 15:50 ASF	SM9223 B 2004	M145708	NEL

Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.

Metals (Total)												
Phosphorus-Total		0.242	mg/L		0.082	0.041	0.050	Bryan	06/17/22 17:19 CAK	EPA 200.7 R4.4	M145813	NEL

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



AUSTIN OFFICE
 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

Analytical Report

Power Engineers

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Power Eng Creek Monitoring Site #6

Collected: 06/09/22 11:25 by CLIENT
 Received: 06/09/22 13:00 by Kelly Kukowski

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F018667

Lab ID#	F018667-06	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		2	mg/L		1	1	1	Austin	06/10/22 07:30 HNJ	SM5210 B 2016	M145731	NEL
Total Suspended Solids		4	mg/L		1	1	1	Austin	06/13/22 08:42 KLJ	SM2540 D 2015	M145796	NEL
Total Dissolved Solids		448	mg/L		25.0	50.0	50.0	Austin	06/16/22 16:46 SR	SM2540 C 2015	M145505	NEL
Ammonia as N		1.64	mg/L		0.05	0.05	0.05	Bryan	06/13/22 11:01 ATG	SM4500-NH3 G 2011	M145838	NEL
Total Kjeldahl Nitrogen as N		2.34	mg/L		0.18	0.18	0.20	Bryan	06/17/22 11:34 ATG	EPA 351.2 R2.0	M145979	NEL
Nitrite as N		0.81	mg/L		0.002	0.02	0.10	Austin	06/09/22 15:08 JLL	SM4500 NO2- B 2011	M145669	NEL
Nitrate/Nitrite as N		3.64	mg/L		0.02	0.10	0.12	Bryan	06/14/22 10:08 ATG	SM4500-NO3-F 2011	M145871	ANR
Nitrogen, Total		5.97	mg/L			0.320	0.320	Calc	06/17/22 11:34 ATG	Calculation	[CALC]	ANR
Turbidity		3.6	NTU		0.1	0.1	1.0	Austin	06/10/22 12:43 SR	SM2130 B 2011	M145775	NEL

Microbiological Analyses

E. Coli		194	MPN/100 mL		1.0	1.0	1.0	Austin	06/09/22 15:50 ASF	SM9223 B 2004	M145708	NEL
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Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.

Metals (Total)

Phosphorus-Total		0.419	mg/L		0.082	0.041	0.050	Bryan	06/22/22 15:35 CAK	EPA 200.7 R4.4	M145980	NEL
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Explanation of Notes

A-01	GGA not reported due to lab error. See NCMR 1881.
J	Analyte detected below the SQL but above the MDL.
MS-01	The MS and/or MSD recovery was outside acceptance limits. Investigation concludes it is a sample- specific matrix effect and the batch was accepted based on acceptable LCS and /or LCSD recovery.
RPD-02	RPD was not calculated in LIMS due to one or both of the sample / duplicate pair being less than the MRL.
RPD-03	Sample and/or duplicate is below MRL.
SL-01	The dried residue did not yield between 2.5 and 200 mg as specified in the method. Due to holding time constraints or insufficient sample volume, the sample cannot be reanalyzed.

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



AUSTIN OFFICE
 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

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General Chemistry - Quality Control												
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Ammonia as N - SM4500-NH3 G 2011												<i>Bryan</i>
Initial Cal Check	1.04	mg/L			06/13/22 11:01 ATG	1.00		104	90 - 110			2206166
Low Cal Check	0.04	mg/L			06/13/22 11:01 ATG	0.0500		90.0	70 - 130			2206166
Blank	<0.05	mg/L	0.05	0.05	06/13/22 11:01 ATG							M145837
LCS	0.50	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500		99.8	85 - 115			M145837
LCS Dup	0.50	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500		100	85 - 115	0.400	10	M145837
Matrix Spike	0.54	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500	<0.05	107	70 - 130			M145837
Matrix Spike Dup	0.54	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500	<0.05	107	70 - 130	0.00	20	M145837
Blank	<0.05	mg/L	0.05	0.05	06/13/22 11:01 ATG							M145838
LCS	0.51	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500		102	85 - 115			M145838
LCS Dup	0.51	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500		103	85 - 115	0.783	10	M145838
Matrix Spike	0.58	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500	0.06	103	70 - 130			M145838
Matrix Spike Dup	0.58	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500	0.06	103	70 - 130	0.00	20	M145838
Blank	<0.05	mg/L	0.05	0.05	06/13/22 11:01 ATG							M145839
LCS	0.52	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500		103	85 - 115			M145839
LCS Dup	0.52	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500		103	85 - 115	0.194	10	M145839
Matrix Spike	0.62	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500	0.10	104	70 - 130			M145839
Matrix Spike Dup	0.62	mg/L	0.05	0.05	06/13/22 11:01 ATG	0.500	0.10	103	70 - 130	0.386	20	M145839
Initial Cal Check	5.27	mg/L			06/16/22 13:58 ATG	5.00		105	90 - 110			2206201
Low Cal Check	0.49	mg/L			06/16/22 13:58 ATG	0.500		97.4	70 - 130			2206201
Blank	<0.05	mg/L	0.05	0.05	06/16/22 13:58 ATG							M145934
LCS	2.22	mg/L	0.05	0.05	06/16/22 13:58 ATG	2.00		111	85 - 115			M145934
LCS Dup	2.25	mg/L	0.05	0.05	06/16/22 13:58 ATG	2.00		112	85 - 115	1.25	10	M145934
Matrix Spike	26.8	mg/L			06/16/22 13:58 ATG	18.0	21.5	29.5	70 - 130			M145934
Matrix Spike Dup	27.4	mg/L			06/16/22 13:58 ATG	18.0	21.5	33.1	70 - 130	11.6	20	M145934
MRL Check	0.49	mg/L	0.05	0.05	06/16/22 13:58 ATG	0.500		97.4	70 - 130			M145934
Carbonaceous BOD (5 day) - SM5210 B 2016												<i>Austin</i>
Diln Water Blk	<0.20	mg/L	1	1	06/10/22 07:30 HNJ		0.1		< or = 0.2 mg/L			2206145
GGA	0	mg/L			06/10/22 07:30 HNJ	198			84.6 - 115.4			2206145
GGA	0	mg/L			06/10/22 07:30 HNJ	198			84.6 - 115.4			2206145
GGA	0	mg/L			06/10/22 07:30 HNJ	198			84.6 - 115.4			2206145
GGA	0	mg/L			06/10/22 07:30 HNJ	198			84.6 - 115.4			2206145
Seed Blank	<1	mg/L	1	1	06/10/22 07:30 HNJ							2206145
Seed Blank	<1	mg/L	1	1	06/10/22 07:30 HNJ							2206145
Seed Blank	<1	mg/L	1	1	06/10/22 07:30 HNJ							2206145
Seed Blank	<1	mg/L	1	1	06/10/22 07:30 HNJ							2206145
Duplicate	2	mg/L	1	1	06/10/22 07:30 HNJ		2			2.16	40.6	M145731

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

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General Chemistry - Quality Control													
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	
Nitrate/Nitrite as N - SM4500-NO3-F 2011													<i>Bryan</i>
Initial Cal Check	0.77	mg/L			06/14/22 10:08 ATG	0.740		104	90 - 110			2206179	
Blank	<0.02	mg/L	0.02	0.02	06/14/22 10:08 ATG							M145871	
LCS	0.51	mg/L	0.02	0.02	06/14/22 10:08 ATG	0.500		102	90.1 - 115			M145871	
LCS Dup	0.51	mg/L	0.02	0.02	06/14/22 10:08 ATG	0.500		102	90.1 - 115	0.00	6.1	M145871	
Matrix Spike	16.9	mg/L	0.15	0.18	06/14/22 10:08 ATG	4.50	12.2	105	84.8 - 120			M145871	
Matrix Spike Dup	16.9	mg/L	0.15	0.18	06/14/22 10:08 ATG	4.50	12.2	105	84.8 - 120	0.741	8.35	M145871	
MRL Check	0.02	mg/L	0.02	0.02	06/14/22 10:08 ATG	0.0200		105	70 - 130			M145871	
Nitrite as N - SM4500 NO2- B 2011													<i>Austin</i>
Initial Cal Check	0.08	mg/L			06/09/22 15:08 JLL	0.0806		96.6	90 - 110			2206138	
Low Cal Check	0.007	mg/L			06/09/22 15:08 JLL	0.0100		71.6	70 - 130			2206138	
Blank	<0.01	mg/L	0.002	0.01	06/09/22 15:08 JLL							M145669	
LCS	0.08	mg/L	0.002	0.01	06/09/22 15:08 JLL	0.0800		97.8	90 - 110			M145669	
Matrix Spike	0.07	mg/L	0.002	0.01	06/09/22 15:08 JLL	0.0800	<0.01	92.0	74.6 - 107			M145669	
Matrix Spike Dup	0.07	mg/L	0.002	0.01	06/09/22 15:08 JLL	0.0800	<0.01	92.8	74.6 - 107	0.971	4.22	M145669	
MRL Check	<0.01	mg/L	0.002	0.01	06/09/22 15:08 JLL	0.0100		71.6	70 - 130			M145669	
Initial Cal Check	0.11	mg/L			10/06/21 08:31 SR	0.100		107	90 - 110			2110050	
Total Dissolved Solids - SM2540 C 2015													<i>Austin</i>
Blank	<25.0	mg/L	25.0	25.0	06/13/22 13:47 KLJ							M145819	
Duplicate	720	mg/L	25.0	25.0	06/13/22 13:47 KLJ		734			1.93	13.9	M145819	
Reference	440	mg/L	100	100	06/13/22 13:47 KLJ	500		88.0	66 - 140			M145819	
Blank	<25.0	mg/L	25.0	25.0	06/16/22 16:46 SR							M145505	
Duplicate	560	mg/L	50.0	50.0	06/16/22 16:46 SR		546			2.53	13.9	M145505	
Reference	460	mg/L	100	100	06/16/22 16:46 SR	500		92.0	66 - 140			M145505	

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
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 Fax: (512) 301-9552

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General Chemistry - Quality Control												
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Total Kjeldahl Nitrogen as N - EPA 351.2 R2.0												<i>Bryan</i>
Low Cal Check	0.25	mg/L			06/17/22 11:34 ATG	0.200		124	70 - 130			2206233
Blank	<0.20	mg/L	0.18	0.20	06/17/22 11:34 ATG							M145979
LCS	7.95	mg/L	0.18	0.20	06/17/22 11:34 ATG	8.00		99.4	85 - 115			M145979
LCS Dup	8.10	mg/L	0.18	0.20	06/17/22 11:34 ATG	8.00		101	85 - 115	1.79	10	M145979
Matrix Spike	10.2	mg/L	0.18	0.20	06/17/22 11:34 ATG	8.00	2.34	98.3	70 - 130			M145979
Matrix Spike Dup	10.5	mg/L	0.18	0.20	06/17/22 11:34 ATG	8.00	2.34	102	70 - 130	3.47	20	M145979
Reference	5.20	mg/L	0.18	0.20	06/17/22 11:34 ATG	5.18		100	90 - 110			M145979
Low Cal Check	0.21	mg/L			06/24/22 11:44 ATG	0.200		104	70 - 130			2206307
MRL Check	0.21	mg/L	0.18	0.20	06/24/22 11:44 ATG	0.200		104	70 - 130			M145979
Blank	<0.20	mg/L	0.18	0.20	06/24/22 11:44 ATG							M146210
LCS	8.13	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00		102	85 - 115			M146210
LCS Dup	8.17	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00		102	85 - 115	0.414	10	M146210
Matrix Spike	8.76	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00	0.87	98.6	70 - 130			M146210
Matrix Spike Dup	8.30	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00	0.87	92.8	70 - 130	6.05	20	M146210
Reference	5.60	mg/L	0.18	0.20	06/24/22 11:44 ATG	5.18		108	90 - 110			M146210
Total Suspended Solids - SM2540 D 2015												<i>Austin</i>
Blank	<1	mg/L	1	1	06/10/22 11:26 KLJ							M145755
Duplicate	<1	mg/L	1	1	06/10/22 11:26 KLJ		4				37.6	M145755
Reference	105	mg/L	10	10	06/10/22 11:26 KLJ	101		104	80 - 120			M145755
Blank	<1	mg/L	1	1	06/13/22 08:42 KLJ							M145796
Duplicate	324	mg/L	20	20	06/13/22 08:42 KLJ		334			3.04	37.6	M145796
Turbidity - SM2130 B 2011												<i>Austin</i>
Initial Cal Check	4.1	NTU			05/11/22 09:15 SN	4.06		102	90 - 110			2205118
Initial Cal Check	4.4	NTU			06/10/22 12:43 SR	4.06		108	90 - 110			2206158
Blank	<1.0	NTU	0.1	1.0	06/10/22 12:43 SR							M145775
Duplicate	<1.0	NTU	0.1	1.0	06/10/22 12:43 SR		<1.0			27.3	25.5	M145775
MRL Check	1.3	NTU	0.1	1.0	06/10/22 12:43 SR	1.01		126	70 - 130			M145775
Blank	<1.0	NTU	0.1	1.0	06/10/22 12:43 SR							M145776
Duplicate	1.0	NTU	0.1	1.0	06/10/22 12:43 SR		0.9			14.3	25.5	M145776
Metals (Total) - Quality Control												
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch

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



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 Austin, TX 78744
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Metals (Total) - Quality Control

Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Phosphorus-Total - EPA 200.7 R4.4												<i>Bryan</i>
Blank	<0.050	mg/L	0.041	0.050	06/17/22 16:34 CAK							M145813
LCS	2.76	mg/L	0.041	0.050	06/17/22 16:37 CAK	2.50		110	84.5 - 115.4			M145813
LCS Dup	2.79	mg/L	0.049	0.060	06/17/22 16:40 CAK	2.50		112	84.5 - 115.4	1.05	20	M145813
Duplicate	0.184	mg/L	0.041	0.050	06/17/22 16:43 CAK		0.182			1.13	20	M145813
Matrix Spike	2.70	mg/L	0.041	0.050	06/17/22 16:46 CAK	2.50	0.182	101	69.5 - 130.4			M145813
Blank	<0.050	mg/L	0.041	0.050	06/17/22 17:30 CAK							M145814
LCS	5.05	mg/L	0.041	0.050	06/17/22 17:33 CAK	5.00		101	84.5 - 115.4			M145814
LCS Dup	5.06	mg/L	0.041	0.050	06/17/22 17:36 CAK	5.00		101	84.5 - 115.4	0.112	20	M145814
Duplicate	20.0	mg/L	0.041	0.050	06/17/22 17:39 CAK		19.4			3.08	20	M145814
Matrix Spike	25.4	mg/L	0.041	0.050	06/17/22 17:43 CAK	5.00	19.4	120	69.5 - 130.4			M145814
Blank	<0.050	mg/L	0.041	0.050	06/22/22 15:16 CAK							M145980
LCS	2.79	mg/L	0.041	0.050	06/22/22 15:19 CAK	2.50		112	84.5 - 115.4			M145980
LCS Dup	2.78	mg/L	0.041	0.050	06/22/22 15:22 CAK	2.50		111	84.5 - 115.4	0.372	20	M145980
Duplicate	0.457	mg/L	0.041	0.050	06/22/22 15:25 CAK		0.416			9.43	20	M145980
Matrix Spike	3.65	mg/L	0.041	0.050	06/22/22 15:29 CAK	2.50	0.416	129	69.5 - 130.4			M145980

Microbiological Analyses - Quality Control

Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	Log10 Comparison Range	Control Limit	Batch
E. Coli - SM9223 B 2004												<i>Austin</i>
Blank	<1.0	MPN/100 mL	1.0	1.0	06/09/22 15:50 ASF							M145708
Dup Log10 Range		MPN/100 mL	1.0	1.0	06/09/22 15:50 ASF					0.301		M145708
Duplicate	<1.0	MPN/100 mL	1.0	1.0	06/09/22 15:50 ASF		1.0				0.564	M145708

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

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Sample Preparation Summary

Sample	Method	Prepared	Lab	Bottle	Initial	Units	Final	Units	External Dilution Factor	Batch
F018667-01										
Ammonia as N	SM4500-NH3 G 2011	6/13/22 8:36 ATG	Bryan	A	10.0	mL	10.0	mL	1	M145839
Carbonaceous BOD (5 day)	SM5210 B 2016	6/10/22 7:30 HNJ	Austin	B	300	mL	300	mL	1	M145731
E. Coli	SM9223 B 2004	6/9/22 15:35 ASF	Austin	C	100	N/A	100	N/A	1	M145708
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/14/22 8:37 ATG	Bryan	A	10.0	mL	10.0	mL	1	M145871
Nitrite as N	SM4500 NO2- B 2011	6/9/22 15:08 JLL	Austin	D	25.0	mL	25.0	mL	1	M145669
Phosphorus-Total	EPA 200.7 R4.4	6/13/22 11:35 ABM	Bryan	E	50.0	mL	25.0	mL	1	M145813
Total Dissolved Solids	SM2540 C 2015	6/13/22 13:47 KLJ	Austin	D	100	mL	100	mL	1	M145819
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/16/22 8:25 ATG	Bryan	A	25.0	mL	25.0	mL	1	M145979
Total Suspended Solids	SM2540 D 2015	6/10/22 11:26 KLJ	Austin	F	1000	mL	1000	mL	1	M145755
Turbidity	SM2130 B 2011	6/10/22 12:43 SR	Austin	G	10.0	mL	10.0	mL	1	M145775
F018667-02										
Ammonia as N	SM4500-NH3 G 2011	6/13/22 8:36 ATG	Bryan	A	10.0	mL	10.0	mL	1	M145839
Carbonaceous BOD (5 day)	SM5210 B 2016	6/10/22 7:30 HNJ	Austin	B	300	mL	300	mL	1	M145731
E. Coli	SM9223 B 2004	6/9/22 15:35 ASF	Austin	C	100	N/A	100	N/A	1	M145708
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/14/22 8:37 ATG	Bryan	A	10.0	mL	10.0	mL	1	M145871
Nitrite as N	SM4500 NO2- B 2011	6/9/22 15:08 JLL	Austin	D	25.0	mL	25.0	mL	1	M145669
Phosphorus-Total	EPA 200.7 R4.4	6/13/22 11:35 ABM	Bryan	E	50.0	mL	25.0	mL	1	M145813
Total Dissolved Solids	SM2540 C 2015	6/13/22 13:47 KLJ	Austin	D	100	mL	100	mL	1	M145819
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/21/22 12:45 MRB	Bryan	A	25.0	mL	25.0	mL	1	M146210
Total Suspended Solids	SM2540 D 2015	6/10/22 11:26 KLJ	Austin	F	1000	mL	1000	mL	1	M145755
Turbidity	SM2130 B 2011	6/10/22 12:43 SR	Austin	G	10.0	mL	10.0	mL	1	M145775
F018667-03										
Ammonia as N	SM4500-NH3 G 2011	6/13/22 8:36 ATG	Bryan	A	10.0	mL	10.0	mL	1	M145837
Carbonaceous BOD (5 day)	SM5210 B 2016	6/10/22 7:30 HNJ	Austin	B	300	mL	300	mL	1	M145731
E. Coli	SM9223 B 2004	6/9/22 15:35 ASF	Austin	C	100	N/A	100	N/A	1	M145708
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/14/22 8:37 ATG	Bryan	A	10.0	mL	10.0	mL	1	M145871
Nitrite as N	SM4500 NO2- B 2011	6/9/22 15:08 JLL	Austin	D	25.0	mL	25.0	mL	1	M145669
Phosphorus-Total	EPA 200.7 R4.4	6/13/22 11:35 ABM	Bryan	E	50.0	mL	25.0	mL	1	M145814
Total Dissolved Solids	SM2540 C 2015	6/13/22 13:47 KLJ	Austin	D	100	mL	100	mL	1	M145819
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/21/22 12:45 MRB	Bryan	A	25.0	mL	25.0	mL	1	M146210
Total Suspended Solids	SM2540 D 2015	6/10/22 11:26 KLJ	Austin	F	1000	mL	1000	mL	1	M145755
Turbidity	SM2130 B 2011	6/10/22 12:43 SR	Austin	G	10.0	mL	10.0	mL	1	M145776

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

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Sample Preparation Summary

Sample	Method	Prepared	Lab	Bottle	Initial	Units	Final	Units	External Dilution Factor	Batch
F018667-04										
Carbonaceous BOD (5 day)	SM5210 B 2016	6/10/22 7:30 HNJ	Austin	B	300	mL	300	mL	1	M145731
E. Coli	SM9223 B 2004	6/9/22 15:35 ASF	Austin	C	100	N/A	100	N/A	1	M145708
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/14/22 8:37 ATG	Bryan	A	1.00	mL	6.00	mL	1	M145871
Nitrite as N	SM4500 NO2- B 2011	6/9/22 15:08 JLL	Austin	D	15.0	mL	25.0	mL	1	M145669
Phosphorus-Total	EPA 200.7 R4.4	6/13/22 11:35 ABM	Bryan	E	50.0	mL	25.0	mL	1	M145814
Total Dissolved Solids	SM2540 C 2015	6/16/22 16:46 SR	Austin	D	50.0	mL	100	mL	1	M145505
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/21/22 12:45 MRB	Bryan	A	5.00	mL	25.0	mL	1	M146210
Total Suspended Solids	SM2540 D 2015	6/10/22 11:26 KLJ	Austin	F	1000	mL	1000	mL	1	M145755
Turbidity	SM2130 B 2011	6/10/22 12:43 SR	Austin	G	10.0	mL	10.0	mL	1	M145775
F018667-04RE1										
Ammonia as N	SM4500-NH3 G 2011	6/16/22 11:55 ATG	Bryan	A	10.0	mL	10.0	mL	1	M145934
F018667-05										
Ammonia as N	SM4500-NH3 G 2011	6/13/22 8:36 ATG	Bryan	A	10.0	mL	10.0	mL	1	M145838
Carbonaceous BOD (5 day)	SM5210 B 2016	6/10/22 7:30 HNJ	Austin	B	300	mL	300	mL	1	M145731
E. Coli	SM9223 B 2004	6/9/22 15:35 ASF	Austin	C	100	N/A	100	N/A	1	M145708
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/14/22 8:37 ATG	Bryan	A	1.00	mL	6.00	mL	1	M145871
Nitrite as N	SM4500 NO2- B 2011	6/9/22 15:08 JLL	Austin	D	7.00	mL	25.0	mL	1	M145669
Phosphorus-Total	EPA 200.7 R4.4	6/13/22 11:35 ABM	Bryan	E	50.0	mL	25.0	mL	1	M145813
Total Dissolved Solids	SM2540 C 2015	6/16/22 16:46 SR	Austin	D	50.0	mL	100	mL	1	M145505
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/21/22 12:45 MRB	Bryan	A	5.00	mL	25.0	mL	1	M146210
Total Suspended Solids	SM2540 D 2015	6/13/22 8:42 KLJ	Austin	F	1000	mL	1000	mL	1	M145796
Turbidity	SM2130 B 2011	6/10/22 12:43 SR	Austin	G	10.0	mL	10.0	mL	1	M145775
F018667-06										
Ammonia as N	SM4500-NH3 G 2011	6/13/22 8:36 ATG	Bryan	A	10.0	mL	10.0	mL	1	M145838
Carbonaceous BOD (5 day)	SM5210 B 2016	6/10/22 7:30 HNJ	Austin	B	300	mL	300	mL	1	M145731
E. Coli	SM9223 B 2004	6/9/22 15:35 ASF	Austin	C	100	N/A	100	N/A	1	M145708
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/14/22 8:37 ATG	Bryan	A	1.00	mL	6.00	mL	1	M145871
Nitrite as N	SM4500 NO2- B 2011	6/9/22 15:08 JLL	Austin	D	2.50	mL	25.0	mL	1	M145669
Phosphorus-Total	EPA 200.7 R4.4	6/16/22 8:50 ABM	Bryan	E	50.0	mL	25.0	mL	1	M145980
Total Dissolved Solids	SM2540 C 2015	6/16/22 16:46 SR	Austin	D	50.0	mL	100	mL	1	M145505
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/16/22 8:25 ATG	Bryan	A	25.0	mL	25.0	mL	1	M145979
Total Suspended Solids	SM2540 D 2015	6/13/22 8:42 KLJ	Austin	F	1000	mL	1000	mL	1	M145796
Turbidity	SM2130 B 2011	6/10/22 12:43 SR	Austin	G	10.0	mL	10.0	mL	1	M145775

Chain-of-Custody and Analysis Request



Aqua-Tech laboratories, Inc.

C-O-C #

Client / Project Name: Power Engineers
Power Eng Quote 4917

Austin
3512 Montopolis Dr. Austin, TX 78744
512.301.9559

Bryan
635 Phil Gramm Blvd. Bryan, TX 77807
979.778.3707

F018667
Page 1 of 2

Contact Information
Name: Rob Von Czoernig
Address: -
City: -
State: - Zip: -
Phone: -
email: -

Definitions
DW Drinking Water
NP Non-Potable Water
S Solid
CM Custody Maintained
CTU Custody Transfer Unbroken
CT Corrected Temperature

Reagent tracking is available upon request.

T104704371
TX239

Test results meet all accreditation/certification requirements unless stated otherwise.

rte_ATL COC
102720.rpt

Analyses Requested: "A" prefix indicates Austin, all others Bryan or Subcontracted, indicated by [SUB].
Name format: Analysis-Matrix-Technology-Method.

[NEL] = NELAP accredited parameter [CNR] = No NELAP accreditation required or available
[SUB] = NELAP accredited subcontracted parameter [INF] = Informational only (not NELAC certified)

By relinquishing the samples listed below to Aqua-Tech laboratories, Inc. (ATL), the client agrees to the following terms. Samples will be analyzed by a method that is within ATL's NELAP fields of accreditation (FoA). Analytes requiring an accredited method that is not within ATL's FoA will be subcontracted to a NELAP lab that is accredited for that method. Clients will be notified of the subcontract lab's details. Other analytes not requiring accreditation will be analyzed by a compendial method. If a specific method is required, the client will note the method in the "Analysis Requested" column. The client approves all method modifications documented by ATL or the subcontract lab.

A current list of ATL's NELAC fields of accreditation and other methods are available on request.

Comments:
Bottles F018667-04, 05, 06 in separate cooler: 3.4/3.7 CT < 45

- LAB RECEIPT - CU

Temperature - CT (C): 0.6
Preservation Correct: Y
Post-Preservatives: NA
Thermometer ID: 0764480
pH Paper ID: 0789433

Sample Custody			
Relinquished (print & sign) <i>Brett Reiman</i> <i>Brett</i>	<input checked="" type="checkbox"/> Sampler <input type="checkbox"/> Client <input type="checkbox"/> ATL Field	Date 6/9/22 Time 1300	<input checked="" type="checkbox"/> Iced / Refrig <input type="checkbox"/> Custody Sealed
Received (print & sign)	<input type="checkbox"/> Client <input type="checkbox"/> ATL Field	Date Time	<input type="checkbox"/> Iced / Refrig <input type="checkbox"/> CM / CTU
Relinquished (print & sign)	<input type="checkbox"/> Client <input type="checkbox"/> ATL Field	Date Time	<input type="checkbox"/> Iced / Refrig <input type="checkbox"/> CM / CTU
Received (print & sign)	<input type="checkbox"/> Client <input type="checkbox"/> ATL Field	Date Time	<input type="checkbox"/> Iced / Refrig <input type="checkbox"/> CM / CTU
Relinquished (print & sign)	<input type="checkbox"/> Client <input type="checkbox"/> ATL Field	Date Time	<input type="checkbox"/> Iced / Refrig <input type="checkbox"/> CM / CTU / Sealed
Received (print & sign) <i>Kelly Kukowski</i>	<input checked="" type="checkbox"/> Client <input type="checkbox"/> ATL Field Lab	Date 6/9/22 Time 1300	<input checked="" type="checkbox"/> Cond Good <input checked="" type="checkbox"/> Iced / Refrig <input type="checkbox"/> CM / CTU

Field Sample ID	Start Date	Start Time	End Date	End Time	Composite Type	Sample Matrix	Container (Checked box indicates bottle arrived in lab) (Volume - Type - Preservative)	Lab ID
Power Eng Creek Monitoring Site #1	6/9/22	0945	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 L2 <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 L2 <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F018667-01
A CBOD NP Probe SM 5210 B [NEL] A TDS NP Grav SM2540 C [NEL] N Total Calc NP [CNR] P NP ICP EPA 200.7 [NEL]	A E.Coli MPN SM9223 B [NEL] A TSS NP Grav SM 2540 D [NEL] NH3N NP AUTO SM 4500 G [NEL] TKN NP AUTO EPA 351.2 [NEL]	A NO2N NP Spec SM4500 NO2 B [NEL] A Turbidity Neph SM2130 B [NEL] NO3N + NO2N NP RFA SM4500 NO3 F [CNR] Y Billing N Total Calc						
Power Eng Creek Monitoring Site #2	6/9/22	1010	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 L2 <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 L2 <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F018667-02
A CBOD NP Probe SM 5210 B [NEL] A TDS NP Grav SM2540 C [NEL] N Total Calc NP [CNR] P NP ICP EPA 200.7 [NEL]	A E.Coli MPN SM9223 B [NEL] A TSS NP Grav SM 2540 D [NEL] NH3N NP AUTO SM 4500 G [NEL] TKN NP AUTO EPA 351.2 [NEL]	A NO2N NP Spec SM4500 NO2 B [NEL] A Turbidity Neph SM2130 B [NEL] NO3N + NO2N NP RFA SM4500 NO3 F [CNR] Y Billing N Total Calc						
Power Eng Creek Monitoring Site #3	6/9/22	1045	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 L2 <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 L2 <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F018667-03
A CBOD NP Probe SM 5210 B [NEL] A TDS NP Grav SM2540 C [NEL] N Total Calc NP [CNR] P NP ICP EPA 200.7 [NEL]	A E.Coli MPN SM9223 B [NEL] A TSS NP Grav SM 2540 D [NEL] NH3N NP AUTO SM 4500 G [NEL] TKN NP AUTO EPA 351.2 [NEL]	A NO2N NP Spec SM4500 NO2 B [NEL] A Turbidity Neph SM2130 B [NEL] NO3N + NO2N NP RFA SM4500 NO3 F [CNR] Y Billing N Total Calc						

Client : Power Engineers

Field Sample ID	Start Date	Start Time	End Date	End Time	Composite Type	Sample Matrix	Container (Checked box indicates bottle arrived in lab) (Volume - Type - Preservative)	Lab ID
Power Eng Creek Monitoring Site #4	6/9/22	1100	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 <i>ll</i> <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 <i>ll</i> <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F018667-04
A CBOD NP Probe SM 5210 B [NEL] A TDS NP Grav SM2540 C [NEL] N Total Calc NP [CNR] P NP ICP EPA 200.7 [NEL]	A E.Coli MPN SM9223 B [NEL] A TSS NP Grav SM 2540 D [NEL] NH3N NP AUTO SM 4500 G [NEL] TKN NP AUTO EPA 351.2 [NEL]		A NO2N NP Spec SM4500 NO2 B [NEL] A Turbidity Neph SM2130 B [NEL] NO3N + NO2N NP RFA SM4500 NO3 F [CNR] Y Billing N Total Calc					
Power Eng Creek Monitoring Site #5	6/9/22	1150	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 <i>ll</i> <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 <i>ll</i> <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F018667-05
A CBOD NP Probe SM 5210 B [NEL] A TDS NP Grav SM2540 C [NEL] N Total Calc NP [CNR] P NP ICP EPA 200.7 [NEL]	A E.Coli MPN SM9223 B [NEL] A TSS NP Grav SM 2540 D [NEL] NH3N NP AUTO SM 4500 G [NEL] TKN NP AUTO EPA 351.2 [NEL]		A NO2N NP Spec SM4500 NO2 B [NEL] A Turbidity Neph SM2130 B [NEL] NO3N + NO2N NP RFA SM4500 NO3 F [CNR] Y Billing N Total Calc					
Power Eng Creek Monitoring Site #6	6/9/22	125	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 <i>ll</i> <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 <i>ll</i> <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F018667-06
A CBOD NP Probe SM 5210 B [NEL] A TDS NP Grav SM2540 C [NEL] N Total Calc NP [CNR] P NP ICP EPA 200.7 [NEL]	A E.Coli MPN SM9223 B [NEL] A TSS NP Grav SM 2540 D [NEL] NH3N NP AUTO SM 4500 G [NEL] TKN NP AUTO EPA 351.2 [NEL]		A NO2N NP Spec SM4500 NO2 B [NEL] A Turbidity Neph SM2130 B [NEL] NO3N + NO2N NP RFA SM4500 NO3 F [CNR] Y Billing N Total Calc					

Email information for report date:

6/30/22 11:55

F018923

Power Engineers

Attn: Rob Von Czoernig

rob.vonczoernig@powereng.com

-

-, - -

ATL has improperly reported the field parameters pH, Chlorine, and DO as NEL Accredited.

ATL is accredited for these parameters when they are performed in the lab. These field parameters are now being reported with an ANR, "Accreditation not offered by the State of Texas," indicator.

There is no impact to the result values that have been previously reported.

Aqua-Tech values you as a customer and encourages you to speak with our staff at 979-778-3707 or samplingbryan@aquatechlabs.com if you have questions.

Thank you for your business,
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
3512 Montopolis Dr. Suite A
Austin, TX 78744
Phone: (512) 301-9559
Fax: (512) 301-9552

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 offered by the State of Texas.
- DWP Approval 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'.

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.

corp@aquatechlabs.com

www.aquatechlabs.com

T104704371-21-24



TCEQ DW Lab ID TX 239

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



AUSTIN OFFICE
 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

Analytical Report

Power Engineers

Report Printed:

6/30/22 11:55

F018923

Power Eng Creek Monitoring Site #1

Collected: 06/14/22 09:35 by CLIENT
 Received: 06/14/22 12:45 by Kaitlyn Johnson

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F018923

Lab ID#	F018923-01	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)	<1	mg/L			1	1	1	Austin	06/15/22 07:30 HNJ	SM5210 B 2016	M145908	NEL
Total Suspended Solids	8	mg/L			1	1	1	Austin	06/15/22 11:59 BEB	SM2540 D 2015	M145939	NEL
Total Dissolved Solids	342	mg/L			25.0	50.0	50.0	Austin	06/16/22 16:46 SR	SM2540 C 2015	M145505	NEL
Ammonia as N	0.06	mg/L			0.05	0.05	0.05	Bryan	06/20/22 09:42 MRB	SM4500-NH3 G 2011	M146137	NEL
Total Kjeldahl Nitrogen as N	0.60	mg/L			0.18	0.18	0.20	Bryan	06/24/22 11:44 ATG	EPA 351.2 R2.0	M146267	NEL
Nitrite as N	0.01	mg/L			0.002	0.002	0.01	Austin	06/16/22 09:30 JLL	SM4500 NO2- B 2011	M145992	NEL
Nitrate/Nitrite as N	0.79	mg/L			0.02	0.02	0.02	Bryan	06/21/22 10:11 MRB	SM4500-NO3-F 2011	M146188	ANR
Nitrogen, Total	1.39	mg/L				0.220	0.220	Calc	06/24/22 11:44 ATG	Calculation	[CALC]	ANR
Turbidity	6.0	NTU			0.1	0.1	1.0	Austin	06/15/22 08:24 BEB	SM2130 B 2011	M145915	NEL
Microbiological Analyses												
E. Coli	17.3	MPN/100 mL			1.0	1.0	1.0	Austin	06/14/22 15:00 ASF	SM9223 B 2004	M145847	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total	0.064	mg/L			0.082	0.041	0.050	Bryan	06/22/22 18:57 CAK	EPA 200.7 R4.4	M145982	NEL

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



AUSTIN OFFICE
 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

Analytical Report

Power Engineers

Report Printed:

6/30/22 11:55

F018923

Power Eng Creek Monitoring Site #2

Collected: 06/14/22 09:55 by CLIENT
 Received: 06/14/22 12:45 by Kaitlyn Johnson

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F018923

Lab ID#	F018923-02	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		<1	mg/L		1	1	1	Austin	06/15/22 07:30 HNJ	SM5210 B 2016	M145908	NEL
Total Suspended Solids		2	mg/L		1	1	1	Austin	06/15/22 13:20 ATA	SM2540 D 2015	M145948	NEL
Total Dissolved Solids		322	mg/L		25.0	50.0	50.0	Austin	06/16/22 17:05 SR	SM2540 C 2015	M145968	NEL
Ammonia as N		<0.05	mg/L		0.05	0.05	0.05	Bryan	06/16/22 15:02 ATG	SM4500-NH3 G 2011	M146046	NEL
Total Kjeldahl Nitrogen as N		0.57	mg/L		0.18	0.18	0.20	Bryan	06/24/22 11:44 ATG	EPA 351.2 R2.0	M146268	NEL
Nitrite as N		0.03	mg/L		0.002	0.002	0.01	Austin	06/16/22 09:30 JLL	SM4500 NO2- B 2011	M145992	NEL
Nitrate/Nitrite as N		2.30	mg/L		0.02	0.03	0.04	Bryan	06/21/22 10:11 MRB	SM4500-NO3-F 2011	M146188	ANR
Nitrogen, Total		2.87	mg/L			0.240	0.240	Calc	06/24/22 11:44 ATG	Calculation	[CALC]	ANR
Turbidity		2.3	NTU		0.1	0.1	1.0	Austin	06/15/22 08:24 BEB	SM2130 B 2011	M145915	NEL
Microbiological Analyses												
E. Coli		90.8	MPN/100 mL		1.0	1.0	1.0	Austin	06/14/22 15:00 ASF	SM9223 B 2004	M145847	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total		0.135	mg/L		0.082	0.041	0.050	Bryan	06/22/22 19:00 CAK	EPA 200.7 R4.4	M145982	NEL

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



AUSTIN OFFICE
 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

Analytical Report

Power Engineers

Report Printed:

6/30/22 11:55

F018923

Power Eng Creek Monitoring Site #3

Collected: 06/14/22 10:20 by CLIENT
 Received: 06/14/22 12:45 by Kaitlyn Johnson

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F018923

Lab ID#	F018923-03	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		<1	mg/L		1	1	1	Austin	06/15/22 07:30 HNJ	SM5210 B 2016	M145908	NEL
Total Suspended Solids		2	mg/L		1	1	1	Austin	06/15/22 13:20 ATA	SM2540 D 2015	M145948	NEL
Total Dissolved Solids		320	mg/L		25.0	50.0	50.0	Austin	06/16/22 17:05 SR	SM2540 C 2015	M145968	NEL
Ammonia as N		<0.05	mg/L		0.05	0.05	0.05	Bryan	06/16/22 15:02 ATG	SM4500-NH3 G 2011	M146046	NEL
Total Kjeldahl Nitrogen as N		0.51	mg/L		0.18	0.18	0.20	Bryan	06/24/22 11:44 ATG	EPA 351.2 R2.0	M146268	NEL
Nitrite as N		0.02	mg/L		0.002	0.002	0.01	Austin	06/16/22 09:30 JLL	SM4500 NO2- B 2011	M145992	NEL
Nitrate/Nitrite as N		1.43	mg/L		0.02	0.02	0.02	Bryan	06/21/22 10:11 MRB	SM4500-NO3-F 2011	M146188	ANR
Nitrogen, Total		1.94	mg/L			0.220	0.220	Calc	06/24/22 11:44 ATG	Calculation	[CALC]	ANR
Turbidity		2.0	NTU		0.1	0.1	1.0	Austin	06/15/22 08:24 BEB	SM2130 B 2011	M145915	NEL
Microbiological Analyses												
E. Coli		102	MPN/100 mL		1.0	1.0	1.0	Austin	06/14/22 15:00 ASF	SM9223 B 2004	M145847	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total		0.121	mg/L		0.082	0.041	0.050	Bryan	06/22/22 19:03 CAK	EPA 200.7 R4.4	M145982	NEL

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



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F018923

Power Eng Creek Monitoring Site #4

Collected: 06/14/22 10:35 by CLIENT
 Received: 06/14/22 12:45 by Kaitlyn Johnson

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F018923

Lab ID#	F018923-04	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		1	mg/L		1	1	1	Austin	06/15/22 07:30 HNJ	SM5210 B 2016	M145908	NEL
Total Suspended Solids		4	mg/L		1	1	1	Austin	06/15/22 11:59 BEB	SM2540 D 2015	M145939	NEL
Total Dissolved Solids		484	mg/L		25.0	50.0	50.0	Austin	06/16/22 17:05 SR	SM2540 C 2015	M145968	NEL
Ammonia as N		0.17	mg/L		0.05	0.05	0.05	Bryan	06/16/22 15:02 ATG	SM4500-NH3 G 2011	M146046	NEL
Total Kjeldahl Nitrogen as N		1.17	mg/L		0.18	0.92	1.00	Bryan	06/24/22 11:44 ATG	EPA 351.2 R2.0	M146267	NEL
Nitrite as N		0.17	mg/L		0.002	0.003	0.02	Austin	06/16/22 09:30 JLL	SM4500 NO2- B 2011	M145992	NEL
Nitrate/Nitrite as N		5.72	mg/L		0.02	0.10	0.12	Bryan	06/28/22 10:52 KMA	SM4500-NO3-F 2011	M146492	ANR
Nitrogen, Total		6.90	mg/L			1.12	1.12	Calc	06/28/22 10:52 ATG	Calculation	[CALC]	ANR
Turbidity		2.8	NTU		0.1	0.1	1.0	Austin	06/15/22 08:24 BEB	SM2130 B 2011	M145915	NEL
Microbiological Analyses												
E. Coli		17800	MPN/100 mL		1.0	100	100	Austin	06/14/22 15:00 ASF	SM9223 B 2004	M145847	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total		0.578	mg/L		0.082	0.041	0.050	Bryan	06/22/22 19:15 CAK	EPA 200.7 R4.4	M145982	NEL

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 Bryan, TX 77807
 Phone: (979) 778-3707
 Fax: (979) 778-3193



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Power Eng Creek Monitoring Site #5

Collected: 06/14/22 11:00 by CLIENT
 Received: 06/14/22 12:45 by Kaitlyn Johnson

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F018923

Lab ID#	F018923-05	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		2	mg/L		1	1	1	Austin	06/15/22 07:30 HNJ	SM5210 B 2016	M145908	NEL
Total Suspended Solids		3	mg/L		1	1	1	Austin	06/15/22 13:20 ATA	SM2540 D 2015	M145948	NEL
Total Dissolved Solids		484	mg/L		25.0	50.0	50.0	Austin	06/16/22 17:05 SR	SM2540 C 2015	M145968	NEL
Ammonia as N		0.14	mg/L		0.05	0.05	0.05	Bryan	06/16/22 15:02 ATG	SM4500-NH3 G 2011	M146046	NEL
Total Kjeldahl Nitrogen as N		1.03	mg/L		0.18	0.18	0.20	Bryan	06/24/22 11:44 ATG	EPA 351.2 R2.0	M146267	NEL
Nitrite as N		0.15	mg/L		0.002	0.004	0.02	Austin	06/16/22 09:30 JLL	SM4500 NO2- B 2011	M145992	NEL
Nitrate/Nitrite as N		5.33	mg/L		0.02	0.10	0.12	Bryan	06/28/22 10:52 KMA	SM4500-NO3-F 2011	M146492	ANR
Nitrogen, Total		6.36	mg/L			0.320	0.320	Calc	06/28/22 10:52 ATG	Calculation	[CALC]	ANR
Turbidity		2.5	NTU		0.1	0.1	1.0	Austin	06/15/22 08:24 BEB	SM2130 B 2011	M145915	NEL
Microbiological Analyses												
E. Coli		3500	MPN/100 mL		1.0	100	100	Austin	06/14/22 15:00 ASF	SM9223 B 2004	M145847	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total		0.504	mg/L		0.082	0.041	0.050	Bryan	06/22/22 19:18 CAK	EPA 200.7 R4.4	M145982	NEL

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
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Power Eng Creek Monitoring Site #6

Collected: 06/14/22 11:20 by CLIENT
 Received: 06/14/22 12:45 by Kaitlyn Johnson

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F018923

Lab ID#	F018923-06	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		<1	mg/L		1	1	1	Austin	06/15/22 07:30 HNJ	SM5210 B 2016	M145909	NEL
Total Suspended Solids		3	mg/L		1	1	1	Austin	06/15/22 11:59 BEB	SM2540 D 2015	M145939	NEL
Total Dissolved Solids		374	mg/L		25.0	50.0	50.0	Austin	06/16/22 17:05 SR	SM2540 C 2015	M145968	NEL
Ammonia as N		0.13	mg/L		0.05	0.05	0.05	Bryan	06/16/22 15:02 ATG	SM4500-NH3 G 2011	M146046	NEL
Total Kjeldahl Nitrogen as N		0.95	mg/L		0.18	0.18	0.20	Bryan	06/24/22 11:44 ATG	EPA 351.2 R2.0	M146267	NEL
Nitrite as N		0.17	mg/L		0.002	0.004	0.02	Austin	06/16/22 09:30 JLL	SM4500 NO2- B 2011	M145992	NEL
Nitrate/Nitrite as N		5.10	mg/L		0.02	0.10	0.12	Bryan	06/28/22 10:52 KMA	SM4500-NO3-F 2011	M146492	ANR
Nitrogen, Total		6.05	mg/L			0.320	0.320	Calc	06/28/22 10:52 ATG	Calculation	[CALC]	ANR
Turbidity		2.5	NTU		0.1	0.1	1.0	Austin	06/15/22 08:24 BEB	SM2130 B 2011	M145915	NEL

Microbiological Analyses

E. Coli		461	MPN/100 mL		1.0	1.0	1.0	Austin	06/14/22 15:00 ASF	SM9223 B 2004	M145847	NEL
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Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.

Metals (Total)

Phosphorus-Total		0.374	mg/L		0.082	0.041	0.050	Bryan	06/22/22 19:21 CAK	EPA 200.7 R4.4	M145982	NEL
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Explanation of Notes

J	Analyte detected below the SQL but above the MDL.
RPD-02	RPD was not calculated in LIMS due to one or both of the sample / duplicate pair being less than the MRL.
SL-01	The dried residue did not yield between 2.5 and 200 mg as specified in the method. Due to holding time constraints or insufficient sample volume, the sample cannot be reanalyzed.
SL-02	The dried residue did not yield between 2.5 and 200 mg as specified in the method. The sample was not re-analyzed due to extended filtration time.

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
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Analytical Report

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F018923

General Chemistry - Quality Control													
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	
Ammonia as N - SM4500-NH3 G 2011													<i>Bryan</i>
Initial Cal Check	1.08	mg/L			06/16/22 15:02 ATG	1.00		108	90 - 110			2206214	
Low Cal Check	0.04	mg/L			06/16/22 15:02 ATG	0.0500		86.0	70 - 130			2206214	
Blank	<0.05	mg/L	0.05	0.05	06/16/22 15:02 ATG							M146046	
LCS	0.52	mg/L	0.05	0.05	06/16/22 15:02 ATG	0.500		104	85 - 115			M146046	
LCS Dup	0.52	mg/L	0.05	0.05	06/16/22 15:02 ATG	0.500		105	85 - 115	0.383	10	M146046	
Matrix Spike	0.55	mg/L	0.05	0.05	06/16/22 15:02 ATG	0.500	<0.05	111	70 - 130			M146046	
Matrix Spike Dup	0.56	mg/L	0.05	0.05	06/16/22 15:02 ATG	0.500	<0.05	111	70 - 130	0.540	20	M146046	
Initial Cal Check	1.05	mg/L			06/20/22 09:42 MRB	1.00		105	90 - 110			2206248	
Low Cal Check	0.04	mg/L			06/20/22 09:42 MRB	0.0500		82.0	70 - 130			2206248	
Blank	<0.05	mg/L	0.05	0.05	06/20/22 09:42 MRB							M146137	
LCS	0.49	mg/L	0.05	0.05	06/20/22 09:42 MRB	0.500		97.2	85 - 115			M146137	
LCS Dup	0.49	mg/L	0.05	0.05	06/20/22 09:42 MRB	0.500		98.2	85 - 115	1.02	10	M146137	
Matrix Spike	0.57	mg/L	0.05	0.05	06/20/22 09:42 MRB	0.500	0.06	102	70 - 130			M146137	
Matrix Spike Dup	0.57	mg/L	0.05	0.05	06/20/22 09:42 MRB	0.500	0.06	102	70 - 130	0.00	20	M146137	
Carbonaceous BOD (5 day) - SM5210 B 2016													<i>Austin</i>
Diln Water Blk	<0.20	mg/L	1	1	06/15/22 07:30 HNJ		-0.1		< or = 0.2 mg/L			2206186	
GGA	180	mg/L	1	1	06/15/22 07:30 HNJ	198		90.9	84.6 - 115.4			2206186	
GGA	183	mg/L	1	1	06/15/22 07:30 HNJ	198		92.4	84.6 - 115.4			2206186	
GGA	172	mg/L	1	1	06/15/22 07:30 HNJ	198		86.9	84.6 - 115.4			2206186	
Seed Blank	<1	mg/L	1	1	06/15/22 07:30 HNJ							2206186	
Seed Blank	<1	mg/L	1	1	06/15/22 07:30 HNJ							2206186	
Seed Blank	<1	mg/L	1	1	06/15/22 07:30 HNJ							2206186	
Duplicate	1	mg/L	1	1	06/15/22 07:30 HNJ		2			23.8	40.6	M145908	
Duplicate	<1	mg/L	1	1	06/15/22 07:30 HNJ		1				40.6	M145909	

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



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 Austin, TX 78744
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 Fax: (512) 301-9552

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General Chemistry - Quality Control												
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Nitrate/Nitrite as N - SM4500-NO3-F 2011												<i>Bryan</i>
Initial Cal Check	0.78	mg/L			06/21/22 10:11 MRB	0.740		105	90 - 110			2206265
Low Cal Check	0.02	mg/L			06/21/22 10:11 MRB	0.0200		95.0	70 - 130			2206265
Blank	<0.02	mg/L	0.02	0.02	06/21/22 10:11 MRB							M146188
LCS	0.52	mg/L	0.02	0.02	06/21/22 10:11 MRB	0.500		105	90.1 - 115			M146188
LCS Dup	0.51	mg/L	0.02	0.02	06/21/22 10:11 MRB	0.500		103	90.1 - 115	2.12	6.1	M146188
Matrix Spike	11.8	mg/L	0.15	0.18	06/21/22 10:11 MRB	4.50	7.08	104	84.8 - 120			M146188
Matrix Spike Dup	11.7	mg/L	0.15	0.18	06/21/22 10:11 MRB	4.50	7.08	103	84.8 - 120	1.63	8.35	M146188
Initial Cal Check	0.79	mg/L			06/28/22 10:52 KMA	0.740		107	90 - 110			2206338
Low Cal Check	0.02	mg/L			06/28/22 10:52 KMA	0.0200		105	70 - 130			2206338
Blank	<0.02	mg/L	0.02	0.02	06/28/22 10:52 KMA							M146492
LCS	0.50	mg/L	0.02	0.02	06/28/22 10:52 KMA	0.500		101	90.1 - 115			M146492
LCS Dup	0.52	mg/L	0.02	0.02	06/28/22 10:52 KMA	0.500		103	90.1 - 115	1.96	6.1	M146492
Matrix Spike	14.0	mg/L	0.15	0.18	06/28/22 10:52 KMA	4.50	9.27	105	84.8 - 120			M146492
Matrix Spike Dup	13.9	mg/L	0.15	0.18	06/28/22 10:52 KMA	4.50	9.27	103	84.8 - 120	2.04	8.35	M146492
Nitrite as N - SM4500 NO2- B 2011												<i>Austin</i>
Initial Cal Check	0.08	mg/L			06/16/22 09:30 JLL	0.0806		103	90 - 110			2206217
Blank	<0.01	mg/L	0.002	0.01	06/16/22 09:30 JLL							M145992
LCS	0.08	mg/L	0.002	0.01	06/16/22 09:30 JLL	0.0800		104	90 - 110			M145992
LCS Dup	0.08	mg/L	0.002	0.01	06/16/22 09:30 JLL	0.0800		105	90 - 110	0.430	6.71	M145992
Matrix Spike	0.07	mg/L	0.002	0.01	06/16/22 09:30 JLL	0.0800	<0.01	92.4	74.6 - 107			M145992
Matrix Spike Dup	0.07	mg/L	0.002	0.01	06/16/22 09:30 JLL	0.0800	<0.01	88.8	74.6 - 107	3.96	4.22	M145992
MRL Check	<0.01	mg/L	0.002	0.01	06/16/22 09:30 JLL	0.0100		82.4	70 - 130			M145992
Initial Cal Check	0.11	mg/L			10/06/21 08:31 SR	0.100		107	90 - 110			2110050
Total Dissolved Solids - SM2540 C 2015												<i>Austin</i>
Blank	<25.0	mg/L	25.0	25.0	06/16/22 16:46 SR							M145505
Duplicate	560	mg/L	50.0	50.0	06/16/22 16:46 SR		546			2.53	13.9	M145505
Reference	460	mg/L	100	100	06/16/22 16:46 SR	500		92.0	66 - 140			M145505
Blank	<25.0	mg/L	25.0	25.0	06/16/22 17:05 SR							M145968
Duplicate	330	mg/L	50.0	50.0	06/16/22 17:05 SR		322			2.45	13.9	M145968
Reference	480	mg/L	100	100	06/16/22 17:05 SR	500		96.0	66 - 140			M145968

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



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 3512 Montopolis Dr. Suite A
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 Fax: (512) 301-9552

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General Chemistry - Quality Control

Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Total Kjeldahl Nitrogen as N - EPA 351.2 R2.0												<i>Bryan</i>
Low Cal Check	0.21	mg/L			06/24/22 11:44 ATG	0.200		104	70 - 130			2206307
Blank	<0.20	mg/L	0.18	0.20	06/24/22 11:44 ATG							M146267
LCS	8.32	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00		104	85 - 115			M146267
LCS Dup	8.11	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00		101	85 - 115	2.52	10	M146267
Matrix Spike	7.21	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00	0.56	83.1	70 - 130			M146267
Matrix Spike Dup	7.87	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00	0.56	91.4	70 - 130	9.49	20	M146267
Reference	5.41	mg/L	0.18	0.20	06/24/22 11:44 ATG	5.18		104	90 - 110			M146267
Blank	<0.20	mg/L	0.18	0.20	06/24/22 11:44 ATG							M146268
LCS	8.32	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00		104	85 - 115			M146268
LCS Dup	8.11	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00		101	85 - 115	2.52	10	M146268
Matrix Spike	7.82	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00	0.51	91.4	70 - 130			M146268
Matrix Spike Dup	7.66	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00	0.51	89.5	70 - 130	2.19	20	M146268
Reference	5.41	mg/L	0.18	0.20	06/24/22 11:44 ATG	5.18		104	90 - 110			M146268

Total Suspended Solids - SM2540 D 2015

												<i>Austin</i>
Blank	<1	mg/L	1	1	06/15/22 11:59 BEB							M145939
Duplicate	<1	mg/L	1	1	06/15/22 11:59 BEB		<1				37.6	M145939
Reference	93	mg/L	10	10	06/15/22 11:59 BEB	100		93.0	80 - 120			M145939
Blank	<1	mg/L	1	1	06/15/22 13:20 ATA							M145948
Duplicate	12	mg/L	5	5	06/15/22 13:20 ATA		13			8.00	37.6	M145948
Reference	94	mg/L	10	10	06/15/22 13:20 ATA	100		94.0	80 - 120			M145948

Turbidity - SM2130 B 2011

												<i>Austin</i>
Initial Cal Check	4.4	NTU			06/15/22 08:24 BEB	4.06		109	90 - 110			2206190
Low Cal Check	1.2	NTU			06/15/22 08:24 BEB	1.01		115	70 - 130			2206190
Blank	<1.0	NTU	0.1	1.0	06/15/22 08:24 BEB							M145915
Duplicate	1.9	NTU	0.1	1.0	06/15/22 08:24 BEB		2.5			25.1	25.5	M145915
MRL Check	1.2	NTU	0.1	1.0	06/15/22 08:24 BEB	1.01		115	70 - 130			M145915
Initial Cal Check	4.4	NTU			06/15/22 15:18 BEB	4.06		109	90 - 110			2206199

Metals (Total) - Quality Control

Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
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 635 Phil Gramm Boulevard
 Bryan, TX 77807
 Phone: (979) 778-3707
 Fax: (979) 778-3193



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Metals (Total) - Quality Control												
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Phosphorus-Total - EPA 200.7 R4.4												<i>Bryan</i>
Blank	<0.050	mg/L	0.041	0.050	06/22/22 18:31 CAK							M145982
LCS	5.10	mg/L	0.041	0.050	06/22/22 18:34 CAK	5.00		102	84.5 - 115.4			M145982
LCS Dup	5.02	mg/L	0.041	0.050	06/22/22 18:39 CAK	5.00		100	84.5 - 115.4	1.65	20	M145982

Microbiological Analyses - Quality Control											Log10 Comparison Control	
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	Range	Limit	Batch
E. Coli - SM9223 B 2004												<i>Austin</i>
Blank	<1.0	MPN/100 mL	1.0	1.0	06/14/22 15:00 ASF							M145847
Dup Log10 Range		MPN/100 mL	1.0	1.0	06/14/22 15:49 ASF					0.000		M145847
Duplicate	<1.0	MPN/100 mL	1.0	1.0	06/14/22 15:49 ASF			<1.0			0.564	M145847

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

Analytical Report

Power Engineers

Report Printed:

6/30/22 11:55

F018923

Sample Preparation Summary

Sample	Method	Prepared	Lab	Bottle	Initial	Units	Final	Units	External Dilution Factor	Batch
F018923-01										
Ammonia as N	SM4500-NH3 G 2011	6/20/22 8:49 MRB	Bryan	A	10.0	mL	10.0	mL	1	M146137
Carbonaceous BOD (5 day)	SM5210 B 2016	6/15/22 7:30 HNJ	Austin	B	300	mL	300	mL	1	M145908
E. Coli	SM9223 B 2004	6/14/22 14:47 ASF	Austin	C	100	N/A	100	N/A	1	M145847
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/21/22 10:01 MRB	Bryan	A	10.0	mL	10.0	mL	1	M146188
Nitrite as N	SM4500 NO2- B 2011	6/16/22 9:30 JLL	Austin	D	25.0	mL	25.0	mL	1	M145992
Phosphorus-Total	EPA 200.7 R4.4	6/16/22 8:50 ABM	Bryan	E	50.0	mL	25.0	mL	1	M145982
Total Dissolved Solids	SM2540 C 2015	6/16/22 16:46 SR	Austin	D	50.0	mL	100	mL	1	M145505
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/22/22 11:20 KMA	Bryan	A	25.0	mL	25.0	mL	1	M146267
Total Suspended Solids	SM2540 D 2015	6/15/22 11:59 BEB	Austin	F	1000	mL	1000	mL	1	M145939
Turbidity	SM2130 B 2011	6/15/22 8:24 BEB	Austin	G	10.0	mL	10.0	mL	1	M145915
F018923-02										
Ammonia as N	SM4500-NH3 G 2011	6/16/22 10:05 ATG	Bryan	A	10.0	mL	10.0	mL	1	M146046
Carbonaceous BOD (5 day)	SM5210 B 2016	6/15/22 7:30 HNJ	Austin	B	300	mL	300	mL	1	M145908
E. Coli	SM9223 B 2004	6/14/22 14:47 ASF	Austin	C	100	N/A	100	N/A	1	M145847
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/21/22 10:01 MRB	Bryan	A	5.00	mL	10.0	mL	1	M146188
Nitrite as N	SM4500 NO2- B 2011	6/16/22 9:30 JLL	Austin	D	25.0	mL	25.0	mL	1	M145992
Phosphorus-Total	EPA 200.7 R4.4	6/16/22 8:50 ABM	Bryan	E	50.0	mL	25.0	mL	1	M145982
Total Dissolved Solids	SM2540 C 2015	6/16/22 17:05 SR	Austin	D	50.0	mL	100	mL	1	M145968
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/22/22 11:24 KMA	Bryan	A	25.0	mL	25.0	mL	1	M146268
Total Suspended Solids	SM2540 D 2015	6/15/22 13:20 ATA	Austin	F	1000	mL	1000	mL	1	M145948
Turbidity	SM2130 B 2011	6/15/22 8:24 BEB	Austin	G	10.0	mL	10.0	mL	1	M145915
F018923-03										
Ammonia as N	SM4500-NH3 G 2011	6/16/22 10:05 ATG	Bryan	A	10.0	mL	10.0	mL	1	M146046
Carbonaceous BOD (5 day)	SM5210 B 2016	6/15/22 7:30 HNJ	Austin	B	300	mL	300	mL	1	M145908
E. Coli	SM9223 B 2004	6/14/22 14:47 ASF	Austin	C	100	N/A	100	N/A	1	M145847
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/21/22 10:01 MRB	Bryan	A	10.0	mL	10.0	mL	1	M146188
Nitrite as N	SM4500 NO2- B 2011	6/16/22 9:30 JLL	Austin	D	25.0	mL	25.0	mL	1	M145992
Phosphorus-Total	EPA 200.7 R4.4	6/16/22 8:50 ABM	Bryan	E	50.0	mL	25.0	mL	1	M145982
Total Dissolved Solids	SM2540 C 2015	6/16/22 17:05 SR	Austin	D	50.0	mL	100	mL	1	M145968
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/22/22 11:24 KMA	Bryan	A	25.0	mL	25.0	mL	1	M146268
Total Suspended Solids	SM2540 D 2015	6/15/22 13:20 ATA	Austin	F	1000	mL	1000	mL	1	M145948
Turbidity	SM2130 B 2011	6/15/22 8:24 BEB	Austin	G	10.0	mL	10.0	mL	1	M145915

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



AUSTIN OFFICE
 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

Analytical Report

Power Engineers

Report Printed:

6/30/22 11:55

F018923

Sample Preparation Summary

Sample	Method	Prepared	Lab	Bottle	Initial	Units	Final	Units	External Dilution Factor	Batch
F018923-04										
Ammonia as N	SM4500-NH3 G 2011	6/16/22 10:05 ATG	Bryan	A	10.0	mL	10.0	mL	1	M146046
Carbonaceous BOD (5 day)	SM5210 B 2016	6/15/22 7:30 HNJ	Austin	B	300	mL	300	mL	1	M145908
E. Coli	SM9223 B 2004	6/14/22 14:47 ASF	Austin	C	1.00	N/A	100	N/A	1	M145847
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/28/22 9:02 KMA	Bryan	A	1.00	mL	6.00	mL	1	M146492
Nitrite as N	SM4500 NO2- B 2011	6/16/22 9:30 JLL	Austin	D	15.0	mL	25.0	mL	1	M145992
Phosphorus-Total	EPA 200.7 R4.4	6/16/22 8:50 ABM	Bryan	E	50.0	mL	25.0	mL	1	M145982
Total Dissolved Solids	SM2540 C 2015	6/16/22 17:05 SR	Austin	D	50.0	mL	100	mL	1	M145968
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/22/22 11:20 KMA	Bryan	A	5.00	mL	25.0	mL	1	M146267
Total Suspended Solids	SM2540 D 2015	6/15/22 11:59 BEB	Austin	F	1000	mL	1000	mL	1	M145939
Turbidity	SM2130 B 2011	6/15/22 8:24 BEB	Austin	G	10.0	mL	10.0	mL	1	M145915
F018923-05										
Ammonia as N	SM4500-NH3 G 2011	6/16/22 10:05 ATG	Bryan	A	10.0	mL	10.0	mL	1	M146046
Carbonaceous BOD (5 day)	SM5210 B 2016	6/15/22 7:30 HNJ	Austin	B	300	mL	300	mL	1	M145908
E. Coli	SM9223 B 2004	6/14/22 14:47 ASF	Austin	C	1.00	N/A	100	N/A	1	M145847
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/28/22 9:02 KMA	Bryan	A	1.00	mL	6.00	mL	1	M146492
Nitrite as N	SM4500 NO2- B 2011	6/16/22 9:30 JLL	Austin	D	12.5	mL	25.0	mL	1	M145992
Phosphorus-Total	EPA 200.7 R4.4	6/16/22 8:50 ABM	Bryan	E	50.0	mL	25.0	mL	1	M145982
Total Dissolved Solids	SM2540 C 2015	6/16/22 17:05 SR	Austin	D	50.0	mL	100	mL	1	M145968
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/22/22 11:20 KMA	Bryan	A	25.0	mL	25.0	mL	1	M146267
Total Suspended Solids	SM2540 D 2015	6/15/22 13:20 ATA	Austin	F	1000	mL	1000	mL	1	M145948
Turbidity	SM2130 B 2011	6/15/22 8:24 BEB	Austin	G	10.0	mL	10.0	mL	1	M145915
F018923-06										
Ammonia as N	SM4500-NH3 G 2011	6/16/22 10:05 ATG	Bryan	A	10.0	mL	10.0	mL	1	M146046
Carbonaceous BOD (5 day)	SM5210 B 2016	6/15/22 7:30 HNJ	Austin	B	300	mL	300	mL	1	M145909
E. Coli	SM9223 B 2004	6/14/22 14:47 ASF	Austin	C	100	N/A	100	N/A	1	M145847
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/28/22 9:02 KMA	Bryan	A	1.00	mL	6.00	mL	1	M146492
Nitrite as N	SM4500 NO2- B 2011	6/16/22 9:30 JLL	Austin	D	12.5	mL	25.0	mL	1	M145992
Phosphorus-Total	EPA 200.7 R4.4	6/16/22 8:50 ABM	Bryan	E	50.0	mL	25.0	mL	1	M145982
Total Dissolved Solids	SM2540 C 2015	6/16/22 17:05 SR	Austin	D	50.0	mL	100	mL	1	M145968
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/22/22 11:20 KMA	Bryan	A	25.0	mL	25.0	mL	1	M146267
Total Suspended Solids	SM2540 D 2015	6/15/22 11:59 BEB	Austin	F	1000	mL	1000	mL	1	M145939
Turbidity	SM2130 B 2011	6/15/22 8:24 BEB	Austin	G	10.0	mL	10.0	mL	1	M145915

Chain-of-Custody and Analysis Request



Aqua-Tech laboratories, Inc.

C-O-C #

Client / Project Name: Power Engineers
Power Eng Quote 4917

Austin
3512 Montopolis Dr. Austin, TX 78744
512.301.9559

Bryan
635 Phil Gramm Blvd. Bryan, TX 77807
979.778.3707

F018923
Page 1 of 2

Contact Information
Name: Rob Von Czoernig
Address: -
City: -
State: - Zip: -
Phone: -
email: -

Definitions
DW Drinking Water
NP Non-Potable Water
S Solid
CM Custody Maintained
CTU Custody Transfer Unbroken
CT Corrected Temperature

Reagent tracking is available upon request.

T104704371
TX239

Test results meet all accreditation/certification requirements unless stated otherwise.

rte_ATL COC
102720.rpt

Sample Custody

Relinquished (print & sign) <i>Brett Reiman</i>	<input checked="" type="checkbox"/> Sampler	Date 6/14/22	<input checked="" type="checkbox"/> Iced / Refrig
Received (print & sign) <i>Brett R</i>	<input type="checkbox"/> Client	Time 1245	<input type="checkbox"/> Custody Sealed
Relinquished (print & sign)	<input type="checkbox"/> ATL Field	Date	<input type="checkbox"/> Iced / Refrig
Received (print & sign)	<input type="checkbox"/> Client	Time	<input type="checkbox"/> CM / CTU
Relinquished (print & sign)	<input type="checkbox"/> ATL Field	Date	<input type="checkbox"/> Iced / Refrig
Received (print & sign)	<input type="checkbox"/> Client	Time	<input type="checkbox"/> CM / CTU
Relinquished (print & sign)	<input type="checkbox"/> ATL Field	Date	<input type="checkbox"/> Iced / Refrig
Received (print & sign)	<input type="checkbox"/> Client	Time	<input type="checkbox"/> CM / CTU / Sealed
Relinquished (print & sign)	<input type="checkbox"/> ATL Field	Date	<input type="checkbox"/> Iced / Refrig
Received (print & sign) <i>Kaitlyn Johnson</i>	<input checked="" type="checkbox"/> Lab	Date 6/14/22	<input checked="" type="checkbox"/> Cond Good
		Time 1245	<input checked="" type="checkbox"/> Iced / Refrig
			<input checked="" type="checkbox"/> CM / CTU

Analyses Requested: "A" prefix indicates Austin, all others Bryan or Subcontracted, indicated by [SUB].
Name format: Analysis-Matrix-Technology-Method.

[NEL] = NELAP accredited parameter [CNR] = No NELAP accreditation required or available
[SUB] = NELAP accredited subcontracted parameter [INF] = Informational only (not NELAC certified)

By relinquishing the samples listed below to Aqua-Tech laboratories, Inc. (ATL), the client agrees to the following terms. Samples will be analyzed by a method that is within ATL's NELAP fields of accreditation (FoA). Analytes requiring an accredited method that is not within ATL's FoA will be subcontracted to a NELAP lab that is accredited for that method. Clients will be notified of the subcontract lab's details. Other analytes not requiring accreditation will be analyzed by a compendial method. If a specific method is required, the client will note the method in the "Analysis Requested" column. The client approves all method modifications documented by ATL or the subcontract lab.

A current list of ATL's NELAC fields of accreditation and other methods are available on request.

Comments:
F018923-03 through -06 in separate cooler (LT 2) CT 4.8°C LTJ7

- LAB RECEIPT - LT

Temperature - CT (C): 1.3
Preservation Correct: Y
Post-Preservatives: N
Thermometer ID: 0764480
pH Paper ID: 0789433

Field Sample ID	Start Date	Start Time	End Date	End Time	Composite Type	Sample Matrix	Container (Checked box indicates bottle arrived in lab) (Volume - Type - Preservative)	Lab ID
Power Eng Creek Monitoring Site #1	6/14/22	0935	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 LL <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 LL <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F018923-01
Power Eng Creek Monitoring Site #2	6/14/22	0955	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 LL <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 LL <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F018923-02
Power Eng Creek Monitoring Site #3	6/14/22	1020	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 LL <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 LL <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F018923-03

Client : Power Engineers

Field Sample ID	Start Date Time	End Date Time	Composite Type	Sample Matrix	Container (Checked box indicates bottle arrived in lab) (Volume - Type - Preservative)	Lab ID	
Power Eng Creek Monitoring Site #4	6/14/22 @ 1035	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 L Z <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 L Z <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F018923-04
A CBOD NP Probe SM 5210 B [NEL] A TDS NP Grav SM2540 C [NEL] N Total Calc NP [CNR] P NP ICP EPA 200.7 [NEL]	A E.Coli MPN SM9223 B [NEL] A TSS NP Grav SM 2540 D [NEL] NH3N NP AUTO SM 4500 G [NEL] TKN NP AUTO EPA 351.2 [NEL]	A NO2N NP Spec SM4500 NO2 B [NEL] A Turbidity Neph SM2130 B [NEL] NO3N + NO2N NP RFA SM4500 NO3 F [CNR] Y Billing N Total Calc					
Power Eng Creek Monitoring Site #5	6/14/22 @ 1100	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 L Z <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 L Z <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F018923-05
A CBOD NP Probe SM 5210 B [NEL] A TDS NP Grav SM2540 C [NEL] N Total Calc NP [CNR] P NP ICP EPA 200.7 [NEL]	A E.Coli MPN SM9223 B [NEL] A TSS NP Grav SM 2540 D [NEL] NH3N NP AUTO SM 4500 G [NEL] TKN NP AUTO EPA 351.2 [NEL]	A NO2N NP Spec SM4500 NO2 B [NEL] A Turbidity Neph SM2130 B [NEL] NO3N + NO2N NP RFA SM4500 NO3 F [CNR] Y Billing N Total Calc					
Power Eng Creek Monitoring Site #6	6/14/22 @ 1120	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 L Z <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 L Z <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F018923-06
A CBOD NP Probe SM 5210 B [NEL] A TDS NP Grav SM2540 C [NEL] N Total Calc NP [CNR] P NP ICP EPA 200.7 [NEL]	A E.Coli MPN SM9223 B [NEL] A TSS NP Grav SM 2540 D [NEL] NH3N NP AUTO SM 4500 G [NEL] TKN NP AUTO EPA 351.2 [NEL]	A NO2N NP Spec SM4500 NO2 B [NEL] A Turbidity Neph SM2130 B [NEL] NO3N + NO2N NP RFA SM4500 NO3 F [CNR] Y Billing N Total Calc					

Email information for report date:

7/5/22 13:36

F019399

Power Engineers

Attn: Rob Von Czoernig

rob.vonczoernig@powereng.com

-
-, - -

ATL has improperly reported the field parameters pH, Chlorine, and DO as NEL Accredited.

ATL is accredited for these parameters when they are performed in the lab. These field parameters are now being reported with an ANR, "Accreditation not offered by the State of Texas," indicator.

There is no impact to the result values that have been previously reported. Aqua-Tech values you as a customer and encourages you to speak with our staff at 979-778-3707 or samplingbryan@aquatechlabs.com if you have questions.

Thank you for your business,
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
3512 Montopolis Dr. Suite A
Austin, TX 78744
Phone: (512) 301-9559
Fax: (512) 301-9552

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 offered by the State of Texas.
- DWP Approval 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.

T104704371-21-24



TCEQ DW Lab ID TX 239

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:

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.

corp@aquatechlabs.com

www.aquatechlabs.com

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



AUSTIN OFFICE
 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

Analytical Report

Power Engineers

Report Printed:

7/5/22 13:36

F019399

Power Eng Creek Monitoring Site #1

Collected: 06/16/22 11:35 by CLIENT
 Received: 06/16/22 14:57 by Brianna Burke

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F019399

Lab ID#	F019399-01	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		2	mg/L		1	1	1	Austin	06/17/22 07:20 HNJ	SM5210 B 2016	M146055	NEL
Total Suspended Solids		4	mg/L		1	1	1	Austin	06/17/22 12:37 KLJ	SM2540 D 2015	M146084	NEL
Total Dissolved Solids		446	mg/L		25.0	50.0	50.0	Austin	06/21/22 09:58 KLJ	SM2540 C 2015	M146173	NEL
Ammonia as N		0.18	mg/L		0.05	0.05	0.05	Bryan	06/20/22 09:42 MRB	SM4500-NH3 G 2011	M146140	NEL
Total Kjeldahl Nitrogen as N		0.87	mg/L		0.18	0.18	0.20	Bryan	06/24/22 11:44 ATG	EPA 351.2 R2.0	M146210	NEL
Nitrite as N		0.17	mg/L		0.002	0.005	0.02	Austin	06/17/22 14:00 MSA	SM4500 NO2- B 2011	M146109	NEL
Nitrate/Nitrite as N		4.67	mg/L		0.02	0.10	0.12	Bryan	06/28/22 10:52 KMA	SM4500-NO3-F 2011	M146484	ANR
Nitrogen, Total		5.55	mg/L			0.320	0.320	Calc	06/28/22 10:52 ATG	Calculation	[CALC]	ANR
Turbidity		2.0	NTU		0.1	0.1	1.0	Austin	06/17/22 08:17 BEB	SM2130 B 2011	M146069	NEL
Microbiological Analyses												
E. Coli		14000	MPN/100 mL		1.0	100	100	Austin	06/16/22 16:05 ATA	SM9223 B 2004	M146050	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total		0.498	mg/L		0.082	0.041	0.050	Bryan	06/29/22 12:01 CAK	EPA 200.7 R4.4	M146299	NEL

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



AUSTIN OFFICE
 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

Analytical Report

Power Engineers

Report Printed:

7/5/22 13:36

F019399

Power Eng Creek Monitoring Site #2

Collected: 06/16/22 11:55 by CLIENT
 Received: 06/16/22 14:57 by Brianna Burke

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F019399

Lab ID#	F019399-02	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		2	mg/L		1	1	1	Austin	06/17/22 07:20 HNJ	SM5210 B 2016	M146055	NEL
Total Suspended Solids		2	mg/L		1	1	1	Austin	06/17/22 12:37 KLJ	SM2540 D 2015	M146084	NEL
Total Dissolved Solids		536	mg/L	C-02	25.0	50.0	50.0	Austin	06/23/22 09:34 ASF	SM2540 C 2015	M146303	NEL
Ammonia as N		0.16	mg/L		0.05	0.05	0.05	Bryan	06/20/22 09:42 MRB	SM4500-NH3 G 2011	M146140	NEL
Total Kjeldahl Nitrogen as N		1.02	mg/L		0.18	0.18	0.20	Bryan	06/24/22 11:44 ATG	EPA 351.2 R2.0	M146323	NEL
Nitrite as N		0.16	mg/L		0.002	0.005	0.02	Austin	06/17/22 14:00 MSA	SM4500 NO2- B 2011	M146109	NEL
Nitrate/Nitrite as N		6.18	mg/L		0.02	0.10	0.12	Bryan	06/28/22 10:52 KMA	SM4500-NO3-F 2011	M146492	ANR
Nitrogen, Total		7.19	mg/L			0.320	0.320	Calc	06/28/22 10:52 ATG	Calculation	[CALC]	ANR
Turbidity		2.6	NTU		0.1	0.1	1.0	Austin	06/17/22 08:17 BEB	SM2130 B 2011	M146069	NEL
Microbiological Analyses												
E. Coli		11800	MPN/100 mL		1.0	100	100	Austin	06/16/22 16:05 ATA	SM9223 B 2004	M146050	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total		0.271	mg/L		0.082	0.041	0.050	Bryan	06/29/22 12:04 CAK	EPA 200.7 R4.4	M146299	NEL

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
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Power Eng Creek Monitoring Site #3

Collected: 06/16/22 12:15 by CLIENT
 Received: 06/16/22 14:57 by Brianna Burke

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F019399

Lab ID#	F019399-03	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)	2	mg/L			1	1	1	Austin	06/17/22 07:20 HNJ	SM5210 B 2016	M146055	NEL
Total Suspended Solids	5	mg/L			1	1	1	Austin	06/17/22 12:37 KLJ	SM2540 D 2015	M146084	NEL
Total Dissolved Solids	536	mg/L			25.0	50.0	50.0	Austin	06/23/22 09:34 ASF	SM2540 C 2015	M146303	NEL
Ammonia as N	0.14	mg/L			0.05	0.05	0.05	Bryan	06/20/22 09:42 MRB	SM4500-NH3 G 2011	M146140	NEL
Total Kjeldahl Nitrogen as N	1.13	mg/L			0.18	0.18	0.20	Bryan	06/24/22 11:44 ATG	EPA 351.2 R2.0	M146323	NEL
Nitrite as N	0.32	mg/L			0.002	0.005	0.02	Austin	06/17/22 14:00 MSA	SM4500 NO2- B 2011	M146109	NEL
Nitrate/Nitrite as N	6.29	mg/L			0.02	0.10	0.12	Bryan	06/28/22 10:52 KMA	SM4500-NO3-F 2011	M146492	ANR
Nitrogen, Total	7.42	mg/L				0.320	0.320	Calc	06/28/22 10:52 ATG	Calculation	[CALC]	ANR
Turbidity	2.3	NTU			0.1	0.1	1.0	Austin	06/17/22 08:17 BEB	SM2130 B 2011	M146069	NEL
Microbiological Analyses												
E. Coli	8550	MPN/100 mL			1.0	100	100	Austin	06/16/22 16:05 ATA	SM9223 B 2004	M146050	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total	0.226	mg/L			0.082	0.041	0.050	Bryan	06/29/22 12:07 CAK	EPA 200.7 R4.4	M146299	NEL

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 Bryan, TX 77807
 Phone: (979) 778-3707
 Fax: (979) 778-3193



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 3512 Montopolis Dr. Suite A
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Power Eng Creek Monitoring Site #4

Collected: 06/16/22 12:30 by CLIENT
 Received: 06/16/22 14:57 by Brianna Burke

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F019399

Lab ID#	F019399-04	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		<1	mg/L		1	1	1	Austin	06/17/22 07:20 HNJ	SM5210 B 2016	M146055	NEL
Total Suspended Solids		6	mg/L		1	1	1	Austin	06/17/22 12:37 KLJ	SM2540 D 2015	M146084	NEL
Total Dissolved Solids		328	mg/L		25.0	50.0	50.0	Austin	06/23/22 09:34 ASF	SM2540 C 2015	M146303	NEL
Ammonia as N		0.07	mg/L		0.05	0.05	0.05	Bryan	06/20/22 09:42 MRB	SM4500-NH3 G 2011	M146136	NEL
Total Kjeldahl Nitrogen as N		<1.00	mg/L		0.18	0.92	1.00	Bryan	06/24/22 11:44 ATG	EPA 351.2 R2.0	M146323	NEL
Nitrite as N		0.01	mg/L		0.002	0.002	0.01	Austin	06/17/22 14:00 MSA	SM4500 NO2- B 2011	M146110	NEL
Nitrate/Nitrite as N		0.74	mg/L		0.02	0.03	0.04	Bryan	06/21/22 10:11 MRB	SM4500-NO3-F 2011	M146189	ANR
Nitrogen, Total		<1.04	mg/L			1.04	1.04	Calc	06/24/22 11:44 ATG	Calculation	[CALC]	ANR
Turbidity		4.9	NTU		0.1	0.1	1.0	Austin	06/17/22 08:17 BEB	SM2130 B 2011	M146069	NEL
Microbiological Analyses												
E. Coli		14.8	MPN/100 mL		1.0	1.0	1.0	Austin	06/16/22 16:05 ATA	SM9223 B 2004	M146050	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total		<0.050	mg/L	J (0.042)	0.082	0.041	0.050	Bryan	06/29/22 12:10 CAK	EPA 200.7 R4.4	M146299	NEL

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 Bryan, TX 77807
 Phone: (979) 778-3707
 Fax: (979) 778-3193



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
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Power Eng Creek Monitoring Site #5

Collected: 06/16/22 13:20 by CLIENT
 Received: 06/16/22 14:57 by Brianna Burke

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F019399

Lab ID#	F019399-05	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		<1	mg/L		1	1	1	Austin	06/17/22 07:20 HNJ	SM5210 B 2016	M146056	NEL
Total Suspended Solids		2	mg/L		1	1	1	Austin	06/17/22 12:37 KLJ	SM2540 D 2015	M146084	NEL
Total Dissolved Solids		394	mg/L		25.0	50.0	50.0	Austin	06/23/22 09:34 ASF	SM2540 C 2015	M146303	NEL
Ammonia as N		<0.05	mg/L		0.05	0.05	0.05	Bryan	06/20/22 09:42 MRB	SM4500-NH3 G 2011	M146140	NEL
Total Kjeldahl Nitrogen as N		0.72	mg/L		0.18	0.18	0.20	Bryan	06/24/22 11:44 ATG	EPA 351.2 R2.0	M146324	NEL
Nitrite as N		0.03	mg/L		0.002	0.002	0.01	Austin	06/17/22 14:00 MSA	SM4500 NO2- B 2011	M146109	NEL
Nitrate/Nitrite as N		2.59	mg/L		0.02	0.03	0.04	Bryan	06/21/22 10:11 MRB	SM4500-NO3-F 2011	M146189	ANR
Nitrogen, Total		3.31	mg/L			0.240	0.240	Calc	06/24/22 11:44 ATG	Calculation	[CALC]	ANR
Turbidity		2.3	NTU		0.1	0.1	1.0	Austin	06/17/22 08:17 BEB	SM2130 B 2011	M146070	NEL
Microbiological Analyses												
E. Coli		83.9	MPN/100 mL		1.0	1.0	1.0	Austin	06/16/22 16:05 ATA	SM9223 B 2004	M146050	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total		0.098	mg/L		0.082	0.041	0.050	Bryan	06/29/22 12:13 CAK	EPA 200.7 R4.4	M146299	NEL

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



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Power Eng Creek Monitoring Site #6

Collected: 06/16/22 13:00 by CLIENT
 Received: 06/16/22 14:57 by Brianna Burke

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F019399

Lab ID#	F019399-06	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)	1	mg/L			1	1	1	Austin	06/17/22 07:20 HNJ	SM5210 B 2016	M146056	NEL
Total Suspended Solids	<1	mg/L			1	1	1	Austin	06/17/22 12:37 KLJ	SM2540 D 2015	M146084	NEL
Total Dissolved Solids	412	mg/L			25.0	50.0	50.0	Austin	06/21/22 09:58 KLJ	SM2540 C 2015	M146173	NEL
Ammonia as N	<0.05	mg/L			0.05	0.05	0.05	Bryan	06/20/22 09:42 MRB	SM4500-NH3 G 2011	M146140	NEL
Total Kjeldahl Nitrogen as N	0.60	mg/L			0.18	0.18	0.20	Bryan	06/24/22 11:44 ATG	EPA 351.2 R2.0	M146323	NEL
Nitrite as N	0.02	mg/L			0.002	0.002	0.01	Austin	06/17/22 14:00 MSA	SM4500 NO2- B 2011	M146110	NEL
Nitrate/Nitrite as N	1.51	mg/L			0.02	0.03	0.04	Bryan	06/21/22 10:01 MRB	SM4500-NO3-F 2011	M146188	ANR
Nitrogen, Total	2.11	mg/L				0.240	0.240	Calc	06/24/22 11:44 ATG	Calculation	[CALC]	ANR
Turbidity	1.2	NTU			0.1	0.1	1.0	Austin	06/17/22 08:17 BEB	SM2130 B 2011	M146070	NEL

Microbiological Analyses

E. Coli	15600	MPN/100 mL			1.0	100	100	Austin	06/16/22 16:05 ATA	SM9223 B 2004	M146050	NEL
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Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.

Metals (Total)

Phosphorus-Total	0.103	mg/L			0.082	0.041	0.050	Bryan	06/29/22 12:17 CAK	EPA 200.7 R4.4	M146299	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.
- RPD-02 RPD was not calculated in LIMS due to one or both of the sample / duplicate pair being less than the MRL.

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
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 Fax: (512) 301-9552

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F019399

General Chemistry - Quality Control												
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Ammonia as N - SM4500-NH3 G 2011												<i>Bryan</i>
Initial Cal Check	1.05	mg/L			06/20/22 09:42 MRB	1.00		105	90 - 110			2206248
Low Cal Check	0.04	mg/L			06/20/22 09:42 MRB	0.0500		82.0	70 - 130			2206248
Blank	<0.05	mg/L	0.05	0.05	06/20/22 09:42 MRB							M146136
LCS	0.50	mg/L	0.05	0.05	06/20/22 09:42 MRB	0.500		99.0	85 - 115			M146136
LCS Dup	0.50	mg/L	0.05	0.05	06/20/22 09:42 MRB	0.500		99.8	85 - 115	0.805	10	M146136
Matrix Spike	0.59	mg/L	0.05	0.05	06/20/22 09:42 MRB	0.500	0.09	100	70 - 130			M146136
Matrix Spike Dup	0.62	mg/L	0.05	0.05	06/20/22 09:42 MRB	0.500	0.09	107	70 - 130	6.56	20	M146136
MRL Check	<0.05	mg/L	0.00	0.05	06/20/22 09:42 MRB	0.0500		82.0	70 - 130			M146136
Blank	<0.05	mg/L	0.05	0.05	06/20/22 09:42 MRB							M146140
LCS	0.49	mg/L	0.05	0.05	06/20/22 09:42 MRB	0.500		97.8	85 - 115			M146140
LCS Dup	0.49	mg/L	0.05	0.05	06/20/22 09:42 MRB	0.500		97.8	85 - 115	0.00	10	M146140
Matrix Spike	0.53	mg/L	0.05	0.05	06/20/22 09:42 MRB	0.500	<0.05	105	70 - 130			M146140
Matrix Spike Dup	0.53	mg/L	0.05	0.05	06/20/22 09:42 MRB	0.500	<0.05	106	70 - 130	0.568	20	M146140
Carbonaceous BOD (5 day) - SM5210 B 2016												<i>Austin</i>
Diln Water Blk	<0.20	mg/L	1	1	06/17/22 07:20 HNJ		-0.1		< or = 0.2 mg/L			2206231
GGA	219	mg/L	1	1	06/17/22 07:20 HNJ	198		111	84.6 - 115.4			2206231
GGA	218	mg/L	1	1	06/17/22 07:20 HNJ	198		110	84.6 - 115.4			2206231
GGA	202	mg/L	1	1	06/17/22 07:20 HNJ	198		102	84.6 - 115.4			2206231
Seed Blank	<1	mg/L	1	1	06/17/22 07:20 HNJ							2206231
Seed Blank	<1	mg/L	1	1	06/17/22 07:20 HNJ							2206231
Seed Blank	<1	mg/L	1	1	06/17/22 07:20 HNJ							2206231
Duplicate	1	mg/L	1	1	06/17/22 07:20 HNJ		1				40.6	M146055
Duplicate	1	mg/L	1	1	06/17/22 07:20 HNJ		<1				40.6	M146055

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

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General Chemistry - Quality Control												
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Nitrate/Nitrite as N - SM4500-NO3-F 2011												<i>Bryan</i>
Initial Cal Check	0.78	mg/L			06/21/22 10:11 MRB	0.740		105	90 - 110			2206265
Low Cal Check	0.02	mg/L			06/21/22 10:11 MRB	0.0200		95.0	70 - 130			2206265
Blank	<0.02	mg/L	0.02	0.02	06/21/22 10:11 MRB							M146188
LCS	0.52	mg/L	0.02	0.02	06/21/22 10:11 MRB	0.500		105	90.1 - 115			M146188
LCS Dup	0.51	mg/L	0.02	0.02	06/21/22 10:11 MRB	0.500		103	90.1 - 115	2.12	6.1	M146188
Matrix Spike	11.8	mg/L	0.15	0.18	06/21/22 10:11 MRB	4.50	7.08	104	84.8 - 120			M146188
Matrix Spike Dup	11.7	mg/L	0.15	0.18	06/21/22 10:11 MRB	4.50	7.08	103	84.8 - 120	1.63	8.35	M146188
Blank	<0.02	mg/L	0.02	0.02	06/21/22 10:11 MRB							M146189
LCS	0.53	mg/L	0.02	0.02	06/21/22 10:11 MRB	0.500		106	90.1 - 115			M146189
LCS Dup	0.53	mg/L	0.02	0.02	06/21/22 10:11 MRB	0.500		106	90.1 - 115	0.00	6.1	M146189
Matrix Spike	1.17	mg/L	0.02	0.02	06/21/22 10:11 MRB	0.500	0.67	99.4	84.8 - 120			M146189
Matrix Spike Dup	1.19	mg/L	0.02	0.02	06/21/22 10:11 MRB	0.500	0.67	104	84.8 - 120	4.14	8.35	M146189
Initial Cal Check	0.79	mg/L			06/28/22 10:52 KMA	0.740		107	90 - 110			2206338
Low Cal Check	0.02	mg/L			06/28/22 10:52 KMA	0.0200		105	70 - 130			2206338
Blank	<0.02	mg/L	0.02	0.02	06/28/22 10:52 KMA							M146484
LCS	0.48	mg/L	0.02	0.02	06/28/22 10:52 KMA	0.500		95.4	90.1 - 115			M146484
LCS Dup	0.51	mg/L	0.02	0.02	06/28/22 10:52 KMA	0.500		101	90.1 - 115	5.90	6.1	M146484
Matrix Spike	12.8	mg/L	0.15	0.18	06/28/22 10:52 KMA	4.50	8.02	106	84.8 - 120			M146484
Matrix Spike Dup	13.0	mg/L	0.15	0.18	06/28/22 10:52 KMA	4.50	8.02	110	84.8 - 120	2.96	8.35	M146484
MRL Check	0.02	mg/L	0.02	0.02	06/28/22 10:52 KMA	0.0200		105	70 - 130			M146484
Blank	<0.02	mg/L	0.02	0.02	06/28/22 10:52 KMA							M146492
LCS	0.50	mg/L	0.02	0.02	06/28/22 10:52 KMA	0.500		101	90.1 - 115			M146492
LCS Dup	0.52	mg/L	0.02	0.02	06/28/22 10:52 KMA	0.500		103	90.1 - 115	1.96	6.1	M146492
Matrix Spike	14.0	mg/L	0.15	0.18	06/28/22 10:52 KMA	4.50	9.27	105	84.8 - 120			M146492
Matrix Spike Dup	13.9	mg/L	0.15	0.18	06/28/22 10:52 KMA	4.50	9.27	103	84.8 - 120	2.04	8.35	M146492

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



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General Chemistry - Quality Control													
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	
Nitrite as N - SM4500 NO2- B 2011													<i>Austin</i>
Initial Cal Check	0.08	mg/L			06/17/22 14:00 MSA	0.0806		100	90 - 110			2206240	
Blank	<0.01	mg/L	0.002	0.01	06/17/22 14:00 MSA							M146109	
LCS	0.08	mg/L	0.002	0.01	06/17/22 14:00 MSA	0.0800		104	90 - 110			M146109	
LCS Dup	0.08	mg/L	0.002	0.01	06/17/22 14:00 MSA	0.0800		105	90 - 110	0.862	6.71	M146109	
Matrix Spike	0.09	mg/L	0.002	0.01	06/17/22 14:00 MSA	0.0800	0.01	93.8	74.6 - 107			M146109	
Matrix Spike Dup	0.09	mg/L	0.002	0.01	06/17/22 14:00 MSA	0.0800	0.01	95.1	74.6 - 107	1.43	4.22	M146109	
MRL Check	<0.01	mg/L	0.002	0.01	06/17/22 14:00 MSA	0.0100		89.5	70 - 130			M146109	
Blank	<0.01	mg/L	0.002	0.01	06/17/22 14:00 MSA							M146110	
LCS	0.08	mg/L	0.002	0.01	06/17/22 14:00 MSA	0.0800		103	90 - 110			M146110	
Matrix Spike	0.10	mg/L	0.002	0.01	06/17/22 14:00 MSA	0.0800	0.01	104	74.6 - 107			M146110	
Matrix Spike Dup	0.10	mg/L	0.002	0.01	06/17/22 14:00 MSA	0.0800	0.01	105	74.6 - 107	1.29	4.22	M146110	
Initial Cal Check	0.11	mg/L			10/06/21 08:31 SR	0.100		107	90 - 110			2110050	
Total Dissolved Solids - SM2540 C 2015													<i>Austin</i>
Blank	<25.0	mg/L	25.0	25.0	06/21/22 09:58 KLJ							M146173	
Duplicate	710	mg/L	50.0	50.0	06/21/22 09:58 KLJ		636			11.0	13.9	M146173	
Reference	496	mg/L	100	100	06/21/22 09:58 KLJ	500		99.2	66 - 140			M146173	
Blank	<25.0	mg/L	25.0	25.0	06/23/22 09:34 ASF							M146303	
Duplicate	532	mg/L	50.0	50.0	06/23/22 09:34 ASF		536			0.749	13.9	M146303	
Reference	540	mg/L	100	100	06/23/22 09:34 ASF	500		108	66 - 140			M146303	

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



AUSTIN OFFICE
 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

Analytical Report

Power Engineers

Report Printed:

7/5/22 13:36

F019399

General Chemistry - Quality Control													
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	
Total Kjeldahl Nitrogen as N - EPA 351.2 R2.0													<i>Bryan</i>
Low Cal Check	0.21	mg/L			06/24/22 11:44 ATG	0.200		104	70 - 130			2206307	
Blank	<0.20	mg/L	0.18	0.20	06/24/22 11:44 ATG							M146210	
LCS	8.13	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00		102	85 - 115			M146210	
LCS Dup	8.17	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00		102	85 - 115	0.414	10	M146210	
Matrix Spike	8.76	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00	0.87	98.6	70 - 130			M146210	
Matrix Spike Dup	8.30	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00	0.87	92.8	70 - 130	6.05	20	M146210	
Reference	5.60	mg/L	0.18	0.20	06/24/22 11:44 ATG	5.18		108	90 - 110			M146210	
Blank	<0.20	mg/L	0.18	0.20	06/24/22 11:44 ATG							M146323	
LCS	8.10	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00		101	85 - 115			M146323	
LCS Dup	8.13	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00		102	85 - 115	0.369	10	M146323	
Matrix Spike	8.65	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00	1.02	95.5	70 - 130			M146323	
Matrix Spike Dup	8.56	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00	1.02	94.3	70 - 130	1.27	20	M146323	
Reference	5.29	mg/L	0.18	0.20	06/24/22 11:44 ATG	5.18		102	90 - 110			M146323	
Blank	<0.20	mg/L	0.18	0.20	06/24/22 11:44 ATG							M146324	
LCS	8.10	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00		101	85 - 115			M146324	
LCS Dup	8.13	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00		102	85 - 115	0.369	10	M146324	
Matrix Spike	7.20	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00	0.60	82.6	70 - 130			M146324	
Matrix Spike Dup	7.78	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00	0.60	89.8	70 - 130	8.41	20	M146324	
Reference	5.29	mg/L	0.18	0.20	06/24/22 11:44 ATG	5.18		102	90 - 110			M146324	
Total Suspended Solids - SM2540 D 2015													<i>Austin</i>
Blank	<1	mg/L	1	1	06/17/22 12:37 KLJ							M146084	
Duplicate	2	mg/L	1	1	06/17/22 12:37 KLJ		2			19.4	37.6	M146084	
Reference	86	mg/L	10	10	06/17/22 12:37 KLJ	99.8		86.2	80 - 120			M146084	
Turbidity - SM2130 B 2011													<i>Austin</i>
Initial Cal Check	4.4	NTU			06/15/22 08:24 BEB	4.06		109	90 - 110			2206190	
Low Cal Check	1.2	NTU			06/15/22 08:24 BEB	1.01		115	70 - 130			2206190	
Initial Cal Check	4.4	NTU			06/15/22 15:18 BEB	4.06		109	90 - 110			2206199	
Initial Cal Check	1.0	NTU			06/17/22 08:17 BEB	0.925		110	90 - 110			2206228	
Low Cal Check	1.2	NTU			06/17/22 08:17 BEB	1.01		114	70 - 130			2206228	
Blank	<1.0	NTU	0.1	1.0	06/17/22 08:17 BEB							M146069	
Duplicate	<1.0	NTU	0.1	1.0	06/17/22 08:17 BEB		<1.0			8.40	25.5	M146069	
MRL Check	1.2	NTU	0.1	1.0	06/17/22 08:17 BEB	1.01		114	70 - 130			M146069	
Blank	<1.0	NTU	0.1	1.0	06/17/22 08:17 BEB							M146070	
Duplicate	1.2	NTU	0.1	1.0	06/17/22 08:17 BEB		1.2			0.803	25.5	M146070	

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Power Engineers

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F019399

Metals (Total) - Quality Control

Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Phosphorus-Total - EPA 200.7 R4.4												<i>Bryan</i>
Blank	<0.050	mg/L	0.041	0.050	06/29/22 11:13 CAK							M146299
LCS	2.64	mg/L	0.041	0.050	06/29/22 11:16 CAK	2.50		106	84.5 - 115.4			M146299
LCS Dup	2.67	mg/L	0.041	0.050	06/29/22 11:19 CAK	2.50		107	84.5 - 115.4	0.846	20	M146299
Duplicate	0.573	mg/L	0.041	0.050	06/29/22 11:22 CAK		0.498			14.1	20	M146299
Matrix Spike	3.68	mg/L	0.041	0.050	06/29/22 11:25 CAK	2.50	0.498	127	69.5 - 130.4			M146299

Microbiological Analyses - Quality Control

Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	Log10 Comparison Range	Control Limit	Batch
E. Coli - SM9223 B 2004												<i>Austin</i>
Blank	<1.0	MPN/100 mL	1.0	1.0	06/16/22 15:20 ATA							M146050
Dup Log10 Range		MPN/100 mL	1.0	1.0	06/16/22 16:05 ATA					0.491		M146050
Duplicate	1.0	MPN/100 mL	1.0	1.0	06/16/22 16:05 ATA		3.1				0.564	M146050

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Analytical Report

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 F019399

Sample Preparation Summary

Sample	Method	Prepared	Lab	Bottle	Initial	Units	Final	Units	External Dilution Factor	Batch
F019399-01										
Ammonia as N	SM4500-NH3 G 2011	6/20/22 8:49 MRB	Bryan	A	10.0	mL	10.0	mL	1	M146140
Carbonaceous BOD (5 day)	SM5210 B 2016	6/17/22 7:20 HNJ	Austin	B	300	mL	300	mL	1	M146055
E. Coli	SM9223 B 2004	6/16/22 15:53 ATA	Austin	C	1.00	N/A	100	N/A	1	M146050
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/28/22 9:02 KMA	Bryan	A	1.00	mL	6.00	mL	1	M146484
Nitrite as N	SM4500 NO2- B 2011	6/17/22 14:00 MSA	Austin	D	10.0	mL	25.0	mL	1	M146109
Phosphorus-Total	EPA 200.7 R4.4	6/23/22 9:05 ABM	Bryan	E	50.0	mL	25.0	mL	1	M146299
Total Dissolved Solids	SM2540 C 2015	6/21/22 8:18 KLJ	Austin	D	50.0	mL	100	mL	1	M146173
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/21/22 12:45 MRB	Bryan	A	25.0	mL	25.0	mL	1	M146210
Total Suspended Solids	SM2540 D 2015	6/17/22 12:37 KLJ	Austin	F	1000	mL	1000	mL	1	M146084
Turbidity	SM2130 B 2011	6/17/22 8:17 BEB	Austin	G	10.0	mL	10.0	mL	1	M146069
F019399-02										
Ammonia as N	SM4500-NH3 G 2011	6/20/22 8:49 MRB	Bryan	A	10.0	mL	10.0	mL	1	M146140
Carbonaceous BOD (5 day)	SM5210 B 2016	6/17/22 7:20 HNJ	Austin	B	300	mL	300	mL	1	M146055
E. Coli	SM9223 B 2004	6/16/22 15:53 ATA	Austin	C	1.00	N/A	100	N/A	1	M146050
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/28/22 9:02 KMA	Bryan	A	1.00	mL	6.00	mL	1	M146492
Nitrite as N	SM4500 NO2- B 2011	6/17/22 14:00 MSA	Austin	D	10.0	mL	25.0	mL	1	M146109
Phosphorus-Total	EPA 200.7 R4.4	6/23/22 9:05 ABM	Bryan	E	50.0	mL	25.0	mL	1	M146299
Total Dissolved Solids	SM2540 C 2015	6/23/22 8:23 ASF	Austin	D	50.0	mL	100	mL	1	M146303
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/23/22 8:52 KMA	Bryan	A	25.0	mL	25.0	mL	1	M146323
Total Suspended Solids	SM2540 D 2015	6/17/22 12:37 KLJ	Austin	F	1000	mL	1000	mL	1	M146084
Turbidity	SM2130 B 2011	6/17/22 8:17 BEB	Austin	G	10.0	mL	10.0	mL	1	M146069
F019399-03										
Ammonia as N	SM4500-NH3 G 2011	6/20/22 8:49 MRB	Bryan	A	10.0	mL	10.0	mL	1	M146140
Carbonaceous BOD (5 day)	SM5210 B 2016	6/17/22 7:20 HNJ	Austin	B	300	mL	300	mL	1	M146055
E. Coli	SM9223 B 2004	6/16/22 15:53 ATA	Austin	C	1.00	N/A	100	N/A	1	M146050
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/28/22 9:02 KMA	Bryan	A	1.00	mL	6.00	mL	1	M146492
Nitrite as N	SM4500 NO2- B 2011	6/17/22 14:00 MSA	Austin	D	10.0	mL	25.0	mL	1	M146109
Phosphorus-Total	EPA 200.7 R4.4	6/23/22 9:05 ABM	Bryan	E	50.0	mL	25.0	mL	1	M146299
Total Dissolved Solids	SM2540 C 2015	6/23/22 8:23 ASF	Austin	D	50.0	mL	100	mL	1	M146303
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/23/22 8:52 KMA	Bryan	A	25.0	mL	25.0	mL	1	M146323
Total Suspended Solids	SM2540 D 2015	6/17/22 12:37 KLJ	Austin	F	1000	mL	1000	mL	1	M146084
Turbidity	SM2130 B 2011	6/17/22 8:17 BEB	Austin	G	10.0	mL	10.0	mL	1	M146069

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Analytical Report

Power Engineers

Report Printed:

7/5/22 13:36

F019399

Sample Preparation Summary

Sample	Method	Prepared	Lab	Bottle	Initial	Units	Final	Units	External Dilution Factor	Batch
F019399-04										
Ammonia as N	SM4500-NH3 G 2011	6/20/22 8:49 MRB	Bryan	A	10.0	mL	10.0	mL	1	M146136
Carbonaceous BOD (5 day)	SM5210 B 2016	6/17/22 7:20 HNJ	Austin	B	300	mL	300	mL	1	M146055
E. Coli	SM9223 B 2004	6/16/22 15:53 ATA	Austin	C	100	N/A	100	N/A	1	M146050
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/21/22 10:01 MRB	Bryan	A	1.00	mL	2.00	mL	1	M146189
Nitrite as N	SM4500 NO2- B 2011	6/17/22 14:00 MSA	Austin	D	25.0	mL	25.0	mL	1	M146110
Phosphorus-Total	EPA 200.7 R4.4	6/23/22 9:05 ABM	Bryan	E	50.0	mL	25.0	mL	1	M146299
Total Dissolved Solids	SM2540 C 2015	6/23/22 8:23 ASF	Austin	D	50.0	mL	100	mL	1	M146303
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/23/22 8:52 KMA	Bryan	A	5.00	mL	25.0	mL	1	M146323
Total Suspended Solids	SM2540 D 2015	6/17/22 12:37 KLJ	Austin	F	1000	mL	1000	mL	1	M146084
Turbidity	SM2130 B 2011	6/17/22 8:17 BEB	Austin	G	10.0	mL	10.0	mL	1	M146069
F019399-05										
Ammonia as N	SM4500-NH3 G 2011	6/20/22 8:49 MRB	Bryan	A	10.0	mL	10.0	mL	1	M146140
Carbonaceous BOD (5 day)	SM5210 B 2016	6/17/22 7:20 HNJ	Austin	B	300	mL	300	mL	1	M146056
E. Coli	SM9223 B 2004	6/16/22 15:53 ATA	Austin	C	100	N/A	100	N/A	1	M146050
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/21/22 10:01 MRB	Bryan	A	1.00	mL	2.00	mL	1	M146189
Nitrite as N	SM4500 NO2- B 2011	6/17/22 14:00 MSA	Austin	D	25.0	mL	25.0	mL	1	M146109
Phosphorus-Total	EPA 200.7 R4.4	6/23/22 9:05 ABM	Bryan	E	50.0	mL	25.0	mL	1	M146299
Total Dissolved Solids	SM2540 C 2015	6/23/22 8:23 ASF	Austin	D	50.0	mL	100	mL	1	M146303
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/23/22 9:00 KMA	Bryan	A	25.0	mL	25.0	mL	1	M146324
Total Suspended Solids	SM2540 D 2015	6/17/22 12:37 KLJ	Austin	F	1000	mL	1000	mL	1	M146084
Turbidity	SM2130 B 2011	6/17/22 8:17 BEB	Austin	G	10.0	mL	10.0	mL	1	M146070
F019399-06										
Ammonia as N	SM4500-NH3 G 2011	6/20/22 8:49 MRB	Bryan	A	10.0	mL	10.0	mL	1	M146140
Carbonaceous BOD (5 day)	SM5210 B 2016	6/17/22 7:20 HNJ	Austin	B	300	mL	300	mL	1	M146056
E. Coli	SM9223 B 2004	6/16/22 15:53 ATA	Austin	C	1.00	N/A	100	N/A	1	M146050
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/21/22 10:01 MRB	Bryan	A	5.00	mL	10.0	mL	1	M146188
Nitrite as N	SM4500 NO2- B 2011	6/17/22 14:00 MSA	Austin	D	25.0	mL	25.0	mL	1	M146110
Phosphorus-Total	EPA 200.7 R4.4	6/23/22 9:05 ABM	Bryan	E	50.0	mL	25.0	mL	1	M146299
Total Dissolved Solids	SM2540 C 2015	6/21/22 8:18 KLJ	Austin	D	50.0	mL	100	mL	1	M146173
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/23/22 8:52 KMA	Bryan	A	25.0	mL	25.0	mL	1	M146323
Total Suspended Solids	SM2540 D 2015	6/17/22 12:37 KLJ	Austin	F	1000	mL	1000	mL	1	M146084
Turbidity	SM2130 B 2011	6/17/22 8:17 BEB	Austin	G	10.0	mL	10.0	mL	1	M146070

Chain-of-Custody and Analysis Request



Client / Project Name: Power Engineers
Power Eng Quote 4917

Austin Bryan

3512 Montopolis Dr. 635 Phil Gramm Blvd.
Austin, TX 78744 Bryan, TX 77807
512.301.9559 979.778.3707

F019399
Page 1 of 2

Contact Information

Name: Rob Von Czoernig
Address: -
City: -
State: - Zip: -
Phone: -
email: -

Definitions

DW Drinking Water
NP Non-Potable Water
S Solid

Reagent tracking is available upon request.

CM Custody Maintained
CTU Custody Transfer Unbroken
CT Corrected Temperature

T104704371
TX239

Test results meet all accreditation/certification requirements unless stated otherwise.

rite_ATL COC
102720.rpt

Sample Custody

Relinquished (print & sign)	STEVE MCVEY <i>[Signature]</i>	<input type="checkbox"/> Sampler <input type="checkbox"/> Client <input type="checkbox"/> ATL Field	Date: 6/16/22	Time: 1415	<input type="checkbox"/> Iced / Refrig <input type="checkbox"/> Custody Sealed
Received (print & sign)	Brianna Burke <i>[Signature]</i>	<input type="checkbox"/> Client <input type="checkbox"/> ATL Field	Date: 6/16/22	Time: 1418	<input type="checkbox"/> Iced / Refrig <input checked="" type="checkbox"/> CM / CTU
Relinquished (print & sign)		<input type="checkbox"/> Client <input type="checkbox"/> ATL Field	Date:	Time:	<input type="checkbox"/> Iced / Refrig <input type="checkbox"/> CM / CTU
Received (print & sign)	Brianna Burke <i>[Signature]</i>	<input type="checkbox"/> Client <input checked="" type="checkbox"/> ATL Field	Date: 06/16/22	Time: 14:57	<input checked="" type="checkbox"/> Iced / Refrig <input type="checkbox"/> CM / CTU / Sealed
Received (print & sign)	Brianna Burke <i>[Signature]</i>	<input checked="" type="checkbox"/> Lab	Date: 06/16/22	Time: 14:57	<input checked="" type="checkbox"/> Cond Good <input checked="" type="checkbox"/> Iced / Refrig <input checked="" type="checkbox"/> CM / CTU

Analyses Rerquested: "A" prefix indicates Austin, all others Bryan or Subcontracted, indicated by [SUB].
Name format: Analysis-Matrix-Technology-Method.

[NEL] = NELAP accredited parameter [CNR] = No NELAP accreditation required or available
[SUB] = NELAP accredited subcontracted parameter [INF] = Informational only (not NELAC certified)

By relinquishing the samples listed below to Aqua-Tech Laboratories, Inc. (ATL), the client agrees to the following terms. Samples will be analyzed by a method that is within ATL's NELAP fields of accreditation (FoA). Analytes requiring an accredited method that is not within ATL's FoA will be subcontracted to a NELAP lab that is accredited for that method. Clients will be notified of the subcontract lab's details. Other analytes not requiring accreditation will be analyzed by a compendial method. If a specific method is required, the client will note the method in the "Analysis Requested" column. The client approves all method modifications documented by ATL or the subcontract lab.

A current list of ATL's NELAC fields of accreditation and other methods are available on request.

Comments:

Bottles F019399-04 through 06 in separate cooler, 116: 5:45 PM CT 4/16

F019399 - LAB RECEIPT - 25	
Temperature - CT (C):	4.5
Preservation Correct:	Yes
Post-Preservatives:	N/A
Thermometer ID:	0715672
pH Paper ID:	0789433
rintwko_A COC 042120.rpt	

Field Sample ID	Start Date	Start Time	End Date	End Time	Composite Type	Sample Matrix	Container (Checked box indicates bottle arrived in lab) (Volume - Type - Preservative)	Lab ID
Power Eng Creek Monitoring Site #1	6/16/22	1135	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F019399-01
Power Eng Creek Monitoring Site #2	6/16/22	1155	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F019399-02
Power Eng Creek Monitoring Site #3	6/16/22	1215	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F019399-03

Client : Power Engineers

Field Sample ID	Start Date Time	End Date Time	Composite Type	Sample Matrix	Container (Checked box indicates bottle arrived in lab) (Volume - Type - Preservative)	Lab ID
Power Eng Creek Monitoring Site #4 A CBOD NP Probe SM 5210 B [NEL] A TDS NP Grav SM2540 C [NEL] N Total Calc NP [CNR] P NP ICP EPA 200.7 [NEL]	6/16/22 1230	- N/A - - N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 LL <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 LL <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F019399-04
A E.Coli MPN SM9223 B [NEL] A TSS NP Grav SM 2540 D [NEL] NH3N NP AUTO SM 4500 G [NEL] TKN NP AUTO EPA 351.2 [NEL]						
A NO2N NP Spec SM4500 NO2 B [NEL] A Turbidity Neph SM2130 B [NEL] NO3N + NO2N NP RFA SM4500 NO3 F [CNR] Y Billing N Total Calc						
Power Eng Creek Monitoring Site #5 A CBOD NP Probe SM 5210 B [NEL] A TDS NP Grav SM2540 C [NEL] N Total Calc NP [CNR] P NP ICP EPA 200.7 [NEL]	6/16/22 1320	- N/A - - N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 LL <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 LL <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F019399-05
A E.Coli MPN SM9223 B [NEL] A TSS NP Grav SM 2540 D [NEL] NH3N NP AUTO SM 4500 G [NEL] TKN NP AUTO EPA 351.2 [NEL]						
A NO2N NP Spec SM4500 NO2 B [NEL] A Turbidity Neph SM2130 B [NEL] NO3N + NO2N NP RFA SM4500 NO3 F [CNR] Y Billing N Total Calc						
Power Eng Creek Monitoring Site #6 A CBOD NP Probe SM 5210 B [NEL] A TDS NP Grav SM2540 C [NEL] N Total Calc NP [CNR] P NP ICP EPA 200.7 [NEL]	6/16/22 1300	- N/A - - N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 LL <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 LL <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F019399-06
A E.Coli MPN SM9223 B [NEL] A TSS NP Grav SM 2540 D [NEL] NH3N NP AUTO SM 4500 G [NEL] TKN NP AUTO EPA 351.2 [NEL]						
A NO2N NP Spec SM4500 NO2 B [NEL] A Turbidity Neph SM2130 B [NEL] NO3N + NO2N NP RFA SM4500 NO3 F [CNR] Y Billing N Total Calc						

Email information for report date:

7/5/22 13:35

F020665

Power Engineers

Attn: Rob Von Czoernig

rob.vonczoernig@powereng.com

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-, - -

ATL has improperly reported the field parameters pH, Chlorine, and DO as NEL Accredited.

ATL is accredited for these parameters when they are performed in the lab. These field parameters are now being reported with an ANR, "Accreditation not offered by the State of Texas," indicator.

There is no impact to the result values that have been previously reported.

Aqua-Tech values you as a customer and encourages you to speak with our staff at 979-778-3707 or samplingbryan@aquatechlabs.com if you have questions.

Thank you for your business,
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
3512 Montopolis Dr. Suite A
Austin, TX 78744
Phone: (512) 301-9559
Fax: (512) 301-9552

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 offered by the State of Texas.
- DWP Approval 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'.

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.

corp@aquatechlabs.com

www.aquatechlabs.com

T104704371-21-24



TCEQ DW Lab ID TX 239

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
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Analytical Report

Power Engineers

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F020665

Power Eng Creek Monitoring Site #1

Collected: 06/21/22 10:30 by CLIENT
 Received: 06/21/22 14:00 by Kaitlyn Johnson

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F020665

Lab ID#	F020665-01	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		1	mg/L		1	1	1	Austin	06/22/22 07:30 HNJ	SM5210 B 2016	M146245	NEL
Total Suspended Solids		19	mg/L		1	1	1	Austin	06/23/22 12:29 ATA	SM2540 D 2015	M146312	NEL
Total Dissolved Solids		306	mg/L		25.0	50.0	50.0	Austin	06/28/22 14:56 ASF	SM2540 C 2015	M146505	NEL
Ammonia as N		0.52	mg/L		0.05	0.05	0.05	Bryan	06/27/22 09:50 ATG	SM4500-NH3 G 2011	M146429	NEL
Total Kjeldahl Nitrogen as N		1.28	mg/L		0.18	0.18	0.20	Bryan	06/24/22 11:44 ATG	EPA 351.2 R2.0	M146324	NEL
Nitrite as N		0.47	mg/L		0.002	0.01	0.06	Austin	06/22/22 10:44 JLL	SM4500 NO2- B 2011	M146261	NEL
Nitrate/Nitrite as N		6.31	mg/L		0.02	0.10	0.12	Bryan	06/28/22 10:52 KMA	SM4500-NO3-F 2011	M146486	ANR
Nitrogen, Total		7.59	mg/L			0.320	0.320	Calc	06/28/22 10:52 ATG	Calculation	[CALC]	ANR
Turbidity		1.6	NTU		0.1	0.1	1.0	Austin	06/22/22 08:21 BEB	SM2130 B 2011	M146232	NEL
Microbiological Analyses												
E. Coli		2790	MPN/100 mL		1.0	100	100	Austin	06/21/22 16:25 ATA	SM9223 B 2004	M146220	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total		1.47	mg/L		0.082	0.041	0.050	Bryan	06/29/22 17:15 CAK	EPA 200.7 R4.4	M146302	NEL

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
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Power Eng Creek Monitoring Site #2

Collected: 06/21/22 10:50 by CLIENT
 Received: 06/21/22 14:00 by Kaitlyn Johnson

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F020665

Lab ID#	F020665-02	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		<1	mg/L		1	1	1	Austin	06/22/22 07:30 HNJ	SM5210 B 2016	M146246	NEL
Total Suspended Solids		21	mg/L		1	2	2	Austin	06/23/22 12:29 ATA	SM2540 D 2015	M146312	NEL
Total Dissolved Solids		376	mg/L		25.0	50.0	50.0	Austin	06/28/22 14:56 ASF	SM2540 C 2015	M146505	NEL
Ammonia as N		0.45	mg/L		0.05	0.05	0.05	Bryan	06/27/22 09:50 ATG	SM4500-NH3 G 2011	M146429	NEL
Total Kjeldahl Nitrogen as N		0.98	mg/L		0.18	0.18	0.20	Bryan	06/24/22 11:44 ATG	EPA 351.2 R2.0	M146324	NEL
Nitrite as N		0.27	mg/L		0.002	0.005	0.02	Austin	06/22/22 10:44 JLL	SM4500 NO2- B 2011	M146261	NEL
Nitrate/Nitrite as N		2.18	mg/L		0.02	0.03	0.04	Bryan	06/28/22 10:52 KMA	SM4500-NO3-F 2011	M146486	ANR
Nitrogen, Total		3.16	mg/L			0.240	0.240	Calc	06/28/22 10:52 ATG	Calculation	[CALC]	ANR
Turbidity		2.5	NTU		0.1	0.1	1.0	Austin	06/22/22 08:21 BEB	SM2130 B 2011	M146232	NEL
Microbiological Analyses												
E. Coli		52.0	MPN/100 mL		1.0	1.0	1.0	Austin	06/21/22 16:25 ATA	SM9223 B 2004	M146226	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total		0.061	mg/L		0.082	0.041	0.050	Bryan	06/29/22 17:18 CAK	EPA 200.7 R4.4	M146302	NEL

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
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Power Eng Creek Monitoring Site #3

Collected: 06/21/22 11:00 by CLIENT
 Received: 06/21/22 14:00 by Kaitlyn Johnson

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F020665

Lab ID#	F020665-03	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)	<1	mg/L			1	1	1	Austin	06/22/22 07:30 HNJ	SM5210 B 2016	M146246	NEL
Total Suspended Solids	22	mg/L			1	4	4	Austin	06/23/22 12:29 ATA	SM2540 D 2015	M146312	NEL
Total Dissolved Solids	334	mg/L			25.0	50.0	50.0	Austin	06/28/22 14:56 ASF	SM2540 C 2015	M146505	NEL
Ammonia as N	<0.05	mg/L			0.05	0.05	0.05	Bryan	06/27/22 09:50 ATG	SM4500-NH3 G 2011	M146429	NEL
Total Kjeldahl Nitrogen as N	0.53	mg/L			0.18	0.18	0.20	Bryan	06/24/22 11:44 ATG	EPA 351.2 R2.0	M146323	NEL
Nitrite as N	<0.01	mg/L		J (0.008)	0.002	0.002	0.01	Austin	06/22/22 10:44 JLL	SM4500 NO2- B 2011	M146266	NEL
Nitrate/Nitrite as N	0.38	mg/L			0.02	0.03	0.04	Bryan	06/28/22 10:52 KMA	SM4500-NO3-F 2011	M146486	ANR
Nitrogen, Total	0.911	mg/L				0.240	0.240	Calc	06/28/22 10:52 ATG	Calculation	[CALC]	ANR
Turbidity	7.6	NTU		C-02	0.1	0.1	1.0	Austin	06/22/22 08:21 BEB	SM2130 B 2011	M146232	NEL
Microbiological Analyses												
E. Coli	21.3	MPN/100 mL			1.0	1.0	1.0	Austin	06/21/22 16:25 ATA	SM9223 B 2004	M146226	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total	0.055	mg/L			0.082	0.041	0.050	Bryan	06/29/22 17:30 CAK	EPA 200.7 R4.4	M146302	NEL

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
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Power Eng Creek Monitoring Site #4

Collected: 06/21/22 11:20 by CLIENT
 Received: 06/21/22 14:00 by Kaitlyn Johnson

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F020665

Lab ID#	F020665-04	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		6	mg/L		1	1	1	Austin	06/22/22 07:30 HNJ	SM5210 B 2016	M146246	NEL
Total Suspended Solids		1	mg/L		1	1	1	Austin	06/23/22 12:29 ATA	SM2540 D 2015	M146312	NEL
Total Dissolved Solids		518	mg/L		25.0	50.0	50.0	Austin	06/28/22 14:56 ASF	SM2540 C 2015	M146505	NEL
Ammonia as N		0.55	mg/L		0.05	0.05	0.05	Bryan	06/27/22 09:50 ATG	SM4500-NH3 G 2011	M146429	NEL
Total Kjeldahl Nitrogen as N		1.97	mg/L		0.18	0.92	1.00	Bryan	06/24/22 11:44 ATG	EPA 351.2 R2.0	M146323	NEL
Nitrite as N		0.26	mg/L		0.002	0.004	0.02	Austin	06/22/22 10:44 JLL	SM4500 NO2- B 2011	M146261	NEL
Nitrate/Nitrite as N		11.9	mg/L		0.02	0.15	0.18	Bryan	06/28/22 10:52 KMA	SM4500-NO3-F 2011	M146486	ANR
Nitrogen, Total		13.8	mg/L			1.18	1.18	Calc	06/28/22 10:52 ATG	Calculation	[CALC]	ANR
Turbidity		9.7	NTU		0.1	0.1	1.0	Austin	06/22/22 08:21 BEB	SM2130 B 2011	M146232	NEL
Microbiological Analyses												
E. Coli		30800	MPN/100 mL		1.0	100	100	Austin	06/21/22 16:25 ATA	SM9223 B 2004	M146226	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total		1.92	mg/L		0.082	0.041	0.050	Bryan	06/29/22 17:33 CAK	EPA 200.7 R4.4	M146302	NEL

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
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 Fax: (512) 301-9552

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Power Eng Creek Monitoring Site #5

Collected: 06/21/22 12:15 by CLIENT
 Received: 06/21/22 14:00 by Kaitlyn Johnson

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F020665

Lab ID#	F020665-05	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		<1	mg/L		1	1	1	Austin	06/22/22 07:30 HNJ	SM5210 B 2016	M146246	NEL
Total Suspended Solids		3	mg/L		1	1	1	Austin	06/23/22 10:33 ATA	SM2540 D 2015	M146308	NEL
Total Dissolved Solids		576	mg/L		25.0	50.0	50.0	Austin	06/28/22 14:56 ASF	SM2540 C 2015	M146506	NEL
Ammonia as N		<0.05	mg/L	RPD-01	0.05	0.05	0.05	Bryan	06/27/22 09:50 ATG	SM4500-NH3 G 2011	M146430	NEL
Total Kjeldahl Nitrogen as N		0.41	mg/L		0.18	0.18	0.20	Bryan	06/24/22 11:44 ATG	EPA 351.2 R2.0	M146324	NEL
Nitrite as N		0.03	mg/L		0.002	0.002	0.01	Austin	06/22/22 10:44 JLL	SM4500 NO2- B 2011	M146261	NEL
Nitrate/Nitrite as N		1.13	mg/L		0.02	0.03	0.04	Bryan	06/28/22 10:52 KMA	SM4500-NO3-F 2011	M146486	ANR
Nitrogen, Total		1.54	mg/L			0.240	0.240	Calc	06/28/22 10:52 ATG	Calculation	[CALC]	ANR
Turbidity		<1.0	NTU	J (0.9)	0.1	0.1	1.0	Austin	06/22/22 08:21 BEB	SM2130 B 2011	M146232	NEL
Microbiological Analyses												
E. Coli		727	MPN/100 mL		1.0	1.0	1.0	Austin	06/21/22 16:25 ATA	SM9223 B 2004	M146226	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total		0.060	mg/L		0.082	0.041	0.050	Bryan	06/29/22 17:36 CAK	EPA 200.7 R4.4	M146302	NEL

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
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 Fax: (512) 301-9552

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Power Eng Creek Monitoring Site #6

Collected: 06/21/22 12:00 by CLIENT
 Received: 06/21/22 14:00 by Kaitlyn Johnson

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F020665

Lab ID#	F020665-06	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)	5	mg/L			1	1	1	Austin	06/22/22 07:30 HNJ	SM5210 B 2016	M146246	NEL
Total Suspended Solids	2	mg/L			1	1	1	Austin	06/23/22 12:29 ATA	SM2540 D 2015	M146312	NEL
Total Dissolved Solids	496	mg/L			25.0	50.0	50.0	Austin	06/28/22 14:56 ASF	SM2540 C 2015	M146506	NEL
Ammonia as N	1.31	mg/L			0.05	0.05	0.05	Bryan	06/27/22 09:50 ATG	SM4500-NH3 G 2011	M146429	NEL
Total Kjeldahl Nitrogen as N	2.02	mg/L			0.18	0.18	0.20	Bryan	06/24/22 11:44 ATG	EPA 351.2 R2.0	M146324	NEL
Nitrite as N	0.23	mg/L			0.002	0.004	0.02	Austin	06/22/22 10:44 JLL	SM4500 NO2- B 2011	M146261	NEL
Nitrate/Nitrite as N	11.9	mg/L			0.02	0.10	0.12	Bryan	06/28/22 10:52 KMA	SM4500-NO3-F 2011	M146486	ANR
Nitrogen, Total	13.9	mg/L				0.320	0.320	Calc	06/28/22 10:52 ATG	Calculation	[CALC]	ANR
Turbidity	9.4	NTU		Visual	0.1	0.1	1.0	Austin	06/22/22 08:21 BEB	SM2130 B 2011	M146232	NEL

Microbiological Analyses

E. Coli	12200	MPN/100 mL			1.0	100	100	Austin	06/21/22 16:25 ATA	SM9223 B 2004	M146226	NEL
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Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.

Metals (Total)

Phosphorus-Total	1.82	mg/L			0.082	0.041	0.050	Bryan	06/29/22 17:39 CAK	EPA 200.7 R4.4	M146302	NEL
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Explanation of Notes

BOD-07	Optional second BOD/CBOD GG was outside expected range. Results accepted on one required passing GG.
C-02	Result confirmed by re-analysis.
J	Analyte detected below the SQL but above the MDL.
RPD-01	Duplicate RPD is outside acceptable range. Acceptance of run is not based on matrix QC.
Visual	Visual inspection done to confirm analytical results.

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
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Analytical Report

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F020665

General Chemistry - Quality Control													
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	
Ammonia as N - SM4500-NH3 G 2011													<i>Bryan</i>
Initial Cal Check	1.05	mg/L			06/27/22 09:50 ATG	1.00		105	90 - 110			2206326	
Low Cal Check	0.05	mg/L			06/27/22 09:50 ATG	0.0500		108	70 - 130			2206326	
Blank	<0.05	mg/L	0.05	0.05	06/27/22 09:50 ATG							M146429	
LCS	0.56	mg/L	0.05	0.05	06/27/22 09:50 ATG	0.500		111	85 - 115			M146429	
LCS Dup	0.56	mg/L	0.05	0.05	06/27/22 09:50 ATG	0.500		111	85 - 115	0.360	10	M146429	
Matrix Spike	0.64	mg/L	0.05	0.05	06/27/22 09:50 ATG	0.500	0.09	110	70 - 130			M146429	
Matrix Spike Dup	0.63	mg/L	0.05	0.05	06/27/22 09:50 ATG	0.500	0.09	108	70 - 130	1.83	20	M146429	
Blank	<0.05	mg/L	0.05	0.05	06/27/22 09:50 ATG							M146430	
LCS	0.56	mg/L	0.05	0.05	06/27/22 09:50 ATG	0.500		112	85 - 115			M146430	
LCS Dup	0.56	mg/L	0.05	0.05	06/27/22 09:50 ATG	0.500		113	85 - 115	0.178	10	M146430	
Matrix Spike	2.55	mg/L	0.05	0.05	06/27/22 09:50 ATG	0.500	2.15	79.8	70 - 130			M146430	
Matrix Spike Dup	2.68	mg/L	0.05	0.05	06/27/22 09:50 ATG	0.500	2.15	105	70 - 130	26.9	20	M146430	
Carbonaceous BOD (5 day) - SM5210 B 2016													<i>Austin</i>
Diln Water Blk	<0.20	mg/L	1	1	06/22/22 07:30 HNJ		0.0		< or = 0.2 mg/L			2206278	
GGA	167	mg/L	1	1	06/22/22 07:30 HNJ	198		84.3	84.6 - 115.4			2206278	
GGA	199	mg/L	1	1	06/22/22 07:30 HNJ	198		101	84.6 - 115.4			2206278	
GGA	207	mg/L	1	1	06/22/22 07:30 HNJ	198		105	84.6 - 115.4			2206278	
Seed Blank	<1	mg/L	1	1	06/22/22 07:30 HNJ							2206278	
Seed Blank	<1	mg/L	1	1	06/22/22 07:30 HNJ							2206278	
Seed Blank	<1	mg/L	1	1	06/22/22 07:30 HNJ							2206278	
Duplicate	<1	mg/L	1	1	06/22/22 07:30 HNJ		<1				40.6	M146245	
Duplicate	<1	mg/L	1	1	06/22/22 07:30 HNJ		<1				40.6	M146246	
Nitrate/Nitrite as N - SM4500-NO3-F 2011													<i>Bryan</i>
Initial Cal Check	0.79	mg/L			06/28/22 10:52 KMA	0.740		107	90 - 110			2206338	
Low Cal Check	0.02	mg/L			06/28/22 10:52 KMA	0.0200		105	70 - 130			2206338	
Blank	<0.02	mg/L	0.02	0.02	06/28/22 10:52 KMA							M146486	
LCS	0.52	mg/L	0.02	0.02	06/28/22 10:52 KMA	0.500		104	90.1 - 115			M146486	
LCS Dup	0.51	mg/L	0.02	0.02	06/28/22 10:52 KMA	0.500		102	90.1 - 115	1.36	6.1	M146486	
Matrix Spike	9.30	mg/L	0.10	0.12	06/28/22 10:52 KMA	4.50	4.39	109	84.8 - 120			M146486	
Matrix Spike Dup	9.39	mg/L	0.10	0.12	06/28/22 10:52 KMA	4.50	4.39	111	84.8 - 120	1.88	8.35	M146486	

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

Analytical Report

Power Engineers

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F020665

General Chemistry - Quality Control													
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	
Nitrite as N - SM4500 NO2- B 2011													<i>Austin</i>
Initial Cal Check	0.08	mg/L			06/22/22 10:44 JLL	0.0806		104	90 - 110			2206283	
Low Cal Check	0.007	mg/L			06/22/22 10:44 JLL	0.0100		71.6	70 - 130			2206283	
Blank	<0.01	mg/L	0.002	0.01	06/22/22 10:44 JLL							M146261	
LCS	0.09	mg/L	0.002	0.01	06/22/22 10:44 JLL	0.0800		108	90 - 110			M146261	
Matrix Spike	0.11	mg/L	0.002	0.01	06/22/22 10:44 JLL	0.0800	0.03	91.1	74.6 - 107			M146261	
Matrix Spike Dup	0.11	mg/L	0.002	0.01	06/22/22 10:44 JLL	0.0800	0.03	90.6	74.6 - 107	0.494	4.22	M146261	
MRL Check	<0.01	mg/L	0.002	0.01	06/22/22 10:44 JLL	0.0100		71.6	70 - 130			M146261	
Blank	<0.01	mg/L	0.002	0.01	06/22/22 10:44 JLL							M146266	
LCS	0.09	mg/L	0.002	0.01	06/22/22 10:44 JLL	0.0800		106	90 - 110			M146266	
Matrix Spike	0.09	mg/L	0.002	0.01	06/22/22 10:44 JLL	0.0800	0.008	101	74.6 - 107			M146266	
Matrix Spike Dup	0.09	mg/L	0.002	0.01	06/22/22 10:44 JLL	0.0800	0.008	103	74.6 - 107	2.20	4.22	M146266	
Initial Cal Check	0.11	mg/L			10/06/21 08:31 SR	0.100		107	90 - 110			2110050	
Total Dissolved Solids - SM2540 C 2015													<i>Austin</i>
Blank	<25.0	mg/L	25.0	25.0	06/28/22 14:56 ASF							M146505	
Duplicate	864	mg/L	100	100	06/28/22 14:56 ASF		892			3.19	13.9	M146505	
Reference	460	mg/L	100	100	06/28/22 14:56 ASF	500		92.0	66 - 140			M146505	
Duplicate	632	mg/L	50.0	50.0	06/28/22 14:56 ASF		660			4.33	13.9	M146506	
Blank	<25.0	mg/L	25.0	25.0	06/28/22 15:57 ASF							M146506	
Reference	496	mg/L	100	100	06/28/22 15:57 ASF	500		99.2	66 - 140			M146506	
Total Kjeldahl Nitrogen as N - EPA 351.2 R2.0													<i>Bryan</i>
Low Cal Check	0.21	mg/L			06/24/22 11:44 ATG	0.200		104	70 - 130			2206307	
Blank	<0.20	mg/L	0.18	0.20	06/24/22 11:44 ATG							M146323	
LCS	8.10	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00		101	85 - 115			M146323	
LCS Dup	8.13	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00		102	85 - 115	0.369	10	M146323	
Matrix Spike	8.65	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00	1.02	95.5	70 - 130			M146323	
Matrix Spike Dup	8.56	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00	1.02	94.3	70 - 130	1.27	20	M146323	
Reference	5.29	mg/L	0.18	0.20	06/24/22 11:44 ATG	5.18		102	90 - 110			M146323	
Blank	<0.20	mg/L	0.18	0.20	06/24/22 11:44 ATG							M146324	
LCS	8.10	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00		101	85 - 115			M146324	
LCS Dup	8.13	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00		102	85 - 115	0.369	10	M146324	
Matrix Spike	7.20	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00	0.60	82.6	70 - 130			M146324	
Matrix Spike Dup	7.78	mg/L	0.18	0.20	06/24/22 11:44 ATG	8.00	0.60	89.8	70 - 130	8.41	20	M146324	
Reference	5.29	mg/L	0.18	0.20	06/24/22 11:44 ATG	5.18		102	90 - 110			M146324	

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

Analytical Report

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F020665

General Chemistry - Quality Control

Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
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Total Suspended Solids - SM2540 D 2015													<i>Austin</i>
Blank	<1	mg/L	1	1	06/23/22 10:33 ATA							M146308	
Duplicate	7000	mg/L	333	333	06/23/22 10:33 ATA		7130			1.89	37.6	M146308	
Reference	98	mg/L	10	10	06/23/22 10:33 ATA	99.8		98.2	80 - 120			M146308	
Blank	<1	mg/L	1	1	06/23/22 12:29 ATA							M146312	
Duplicate	5	mg/L	1	1	06/23/22 12:29 ATA		5			2.60	37.6	M146312	
Reference	94	mg/L	10	10	06/23/22 12:29 ATA	101		93.1	80 - 120			M146312	

Turbidity - SM2130 B 2011													<i>Austin</i>
Initial Cal Check	4.4	NTU			06/15/22 08:24 BEB	4.06		109	90 - 110			2206190	
Low Cal Check	1.2	NTU			06/15/22 08:24 BEB	1.01		115	70 - 130			2206190	
Initial Cal Check	4.4	NTU			06/15/22 15:18 BEB	4.06		109	90 - 110			2206199	
Initial Cal Check	3.8	NTU			06/22/22 08:21 BEB	3.70		103	90 - 110			2206273	
Low Cal Check	1.2	NTU			06/22/22 08:21 BEB	1.01		117	70 - 130			2206273	
Blank	<1.0	NTU			06/22/22 08:21 BEB	0.1						M146232	
Duplicate	7.4	NTU			06/22/22 08:21 BEB		7.6			2.40	25.5	M146232	
MRL Check	1.2	NTU			06/22/22 08:21 BEB	1.01		117	70 - 130			M146232	

Metals (Total) - Quality Control													
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	
Phosphorus-Total - EPA 200.7 R4.4													<i>Bryan</i>
Blank	<0.050	mg/L	0.041	0.050	06/29/22 16:41 CAK							M146302	
LCS	4.62	mg/L	0.041	0.050	06/29/22 16:44 CAK	5.00		92.4	84.5 - 115.4			M146302	
LCS Dup	4.73	mg/L	0.041	0.050	06/29/22 16:49 CAK	5.00		94.6	84.5 - 115.4	2.41	20	M146302	
Duplicate	1.89	mg/L	0.041	0.050	06/29/22 16:53 CAK		1.82			3.55	20	M146302	
Matrix Spike	7.04	mg/L	0.041	0.050	06/29/22 16:56 CAK	5.00	1.82	104	69.5 - 130.4			M146302	

Microbiological Analyses - Quality Control

Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	Log10 Comparison Range	RPD Limit	Batch
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 635 Phil Gramm Boulevard
 Bryan, TX 77807
 Phone: (979) 778-3707
 Fax: (979) 778-3193



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 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

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Microbiological Analyses - Quality Control												Log10 Comparison	
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	Range	Control Limit	Batch	
E. Coli - SM9223 B 2004													
Blank	<1.0	MPN/100 mL	1.0	1.0	06/21/22 15:37 ATA							<i>Austin</i>	
Dup Log10 Range		MPN/100 mL	1.0	1.0	06/21/22 15:37 ATA					0.491		M146220	
Duplicate	1.0	MPN/100 mL	1.0	1.0	06/21/22 15:37 ATA		3.1				0.564	M146220	
Blank	<1.0	MPN/100 mL	1.0	1.0	06/21/22 15:37 ATA							M146226	
Dup Log10 Range		MPN/100 mL	1.0	1.0	06/21/22 15:37 ATA					0.000		M146226	
Duplicate	<1.0	MPN/100 mL	1.0	1.0	06/21/22 15:37 ATA		<1.0				0.564	M146226	

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



AUSTIN OFFICE
 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

Analytical Report

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F020665

Sample Preparation Summary

Sample	Method	Prepared	Lab	Bottle	Initial	Units	Final	Units	External Dilution Factor	Batch
F020665-01										
Ammonia as N	SM4500-NH3 G 2011	6/27/22 9:50 ATG	Bryan	A	10.0	mL	10.0	mL	1	M146429
Carbonaceous BOD (5 day)	SM5210 B 2016	6/22/22 7:30 HNJ	Austin	B	300	mL	300	mL	1	M146245
E. Coli	SM9223 B 2004	6/21/22 16:15 ATA	Austin	C	1.00	N/A	100	N/A	1	M146220
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/28/22 9:02 KMA	Bryan	A	1.00	mL	6.00	mL	1	M146486
Nitrite as N	SM4500 NO2- B 2011	6/22/22 10:44 JLL	Austin	D	4.00	mL	25.0	mL	1	M146261
Phosphorus-Total	EPA 200.7 R4.4	6/23/22 9:05 ABM	Bryan	E	50.0	mL	25.0	mL	1	M146302
Total Dissolved Solids	SM2540 C 2015	6/28/22 14:56 ASF	Austin	D	50.0	mL	100	mL	1	M146505
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/23/22 9:00 KMA	Bryan	A	25.0	mL	25.0	mL	1	M146324
Total Suspended Solids	SM2540 D 2015	6/23/22 12:29 ATA	Austin	F	1000	mL	1000	mL	1	M146312
Turbidity	SM2130 B 2011	6/22/22 8:21 BEB	Austin	G	10.0	mL	10.0	mL	1	M146232
F020665-02										
Ammonia as N	SM4500-NH3 G 2011	6/27/22 9:50 ATG	Bryan	A	10.0	mL	10.0	mL	1	M146429
Carbonaceous BOD (5 day)	SM5210 B 2016	6/22/22 7:30 HNJ	Austin	B	300	mL	300	mL	1	M146246
E. Coli	SM9223 B 2004	6/21/22 16:15 ATA	Austin	C	100	N/A	100	N/A	1	M146226
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/28/22 9:02 KMA	Bryan	A	1.00	mL	2.00	mL	1	M146486
Nitrite as N	SM4500 NO2- B 2011	6/22/22 10:44 JLL	Austin	D	10.0	mL	25.0	mL	1	M146261
Phosphorus-Total	EPA 200.7 R4.4	6/23/22 9:05 ABM	Bryan	E	50.0	mL	25.0	mL	1	M146302
Total Dissolved Solids	SM2540 C 2015	6/28/22 14:56 ASF	Austin	D	50.0	mL	100	mL	1	M146505
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/23/22 9:00 KMA	Bryan	A	25.0	mL	25.0	mL	1	M146324
Total Suspended Solids	SM2540 D 2015	6/23/22 12:29 ATA	Austin	F	500	mL	1000	mL	1	M146312
Turbidity	SM2130 B 2011	6/22/22 8:21 BEB	Austin	G	10.0	mL	10.0	mL	1	M146232
F020665-03										
Ammonia as N	SM4500-NH3 G 2011	6/27/22 9:50 ATG	Bryan	A	10.0	mL	10.0	mL	1	M146429
Carbonaceous BOD (5 day)	SM5210 B 2016	6/22/22 7:30 HNJ	Austin	B	300	mL	300	mL	1	M146246
E. Coli	SM9223 B 2004	6/21/22 16:15 ATA	Austin	C	100	N/A	100	N/A	1	M146226
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/28/22 9:02 KMA	Bryan	A	1.00	mL	2.00	mL	1	M146486
Nitrite as N	SM4500 NO2- B 2011	6/22/22 10:44 JLL	Austin	D	25.0	mL	25.0	mL	1	M146266
Phosphorus-Total	EPA 200.7 R4.4	6/23/22 9:05 ABM	Bryan	E	50.0	mL	25.0	mL	1	M146302
Total Dissolved Solids	SM2540 C 2015	6/28/22 14:56 ASF	Austin	D	50.0	mL	100	mL	1	M146505
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/23/22 8:52 KMA	Bryan	A	25.0	mL	25.0	mL	1	M146323
Total Suspended Solids	SM2540 D 2015	6/23/22 12:29 ATA	Austin	F	250	mL	1000	mL	1	M146312
Turbidity	SM2130 B 2011	6/22/22 8:21 BEB	Austin	G	10.0	mL	10.0	mL	1	M146232

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



AUSTIN OFFICE
 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

Analytical Report

Power Engineers

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F020665

Sample Preparation Summary

Sample	Method	Prepared	Lab	Bottle	Initial	Units	Final	Units	External Dilution Factor	Batch
F020665-04										
Ammonia as N	SM4500-NH3 G 2011	6/27/22 9:50 ATG	Bryan	A	10.0	mL	10.0	mL	1	M146429
Carbonaceous BOD (5 day)	SM5210 B 2016	6/22/22 7:30 HNJ	Austin	B	300	mL	300	mL	1	M146246
E. Coli	SM9223 B 2004	6/21/22 16:15 ATA	Austin	C	1.00	N/A	100	N/A	1	M146226
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/28/22 9:02 KMA	Bryan	A	1.00	mL	9.00	mL	1	M146486
Nitrite as N	SM4500 NO2- B 2011	6/22/22 10:44 JLL	Austin	D	12.5	mL	25.0	mL	1	M146261
Phosphorus-Total	EPA 200.7 R4.4	6/23/22 9:05 ABM	Bryan	E	50.0	mL	25.0	mL	1	M146302
Total Dissolved Solids	SM2540 C 2015	6/28/22 14:56 ASF	Austin	D	50.0	mL	100	mL	1	M146505
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/23/22 8:52 KMA	Bryan	A	5.00	mL	25.0	mL	1	M146323
Total Suspended Solids	SM2540 D 2015	6/23/22 12:29 ATA	Austin	F	1000	mL	1000	mL	1	M146312
Turbidity	SM2130 B 2011	6/22/22 8:21 BEB	Austin	G	10.0	mL	10.0	mL	1	M146232
F020665-05										
Ammonia as N	SM4500-NH3 G 2011	6/27/22 9:50 ATG	Bryan	H	10.0	mL	10.0	mL	1	M146430
Carbonaceous BOD (5 day)	SM5210 B 2016	6/22/22 7:30 HNJ	Austin	B	300	mL	300	mL	1	M146246
E. Coli	SM9223 B 2004	6/21/22 16:15 ATA	Austin	C	100	N/A	100	N/A	1	M146226
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/28/22 9:02 KMA	Bryan	H	1.00	mL	2.00	mL	1	M146486
Nitrite as N	SM4500 NO2- B 2011	6/22/22 10:44 JLL	Austin	D	25.0	mL	25.0	mL	1	M146261
Phosphorus-Total	EPA 200.7 R4.4	6/23/22 9:05 ABM	Bryan	E	50.0	mL	25.0	mL	1	M146302
Total Dissolved Solids	SM2540 C 2015	6/28/22 13:31 ASF	Austin	D	50.0	mL	100	mL	1	M146506
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/23/22 9:00 KMA	Bryan	H	25.0	mL	25.0	mL	1	M146324
Total Suspended Solids	SM2540 D 2015	6/23/22 10:33 ATA	Austin	F	1000	mL	1000	mL	1	M146308
Turbidity	SM2130 B 2011	6/22/22 8:21 BEB	Austin	G	10.0	mL	10.0	mL	1	M146232
F020665-06										
Ammonia as N	SM4500-NH3 G 2011	6/27/22 9:50 ATG	Bryan	A	10.0	mL	10.0	mL	1	M146429
Carbonaceous BOD (5 day)	SM5210 B 2016	6/22/22 7:30 HNJ	Austin	B	300	mL	300	mL	1	M146246
E. Coli	SM9223 B 2004	6/21/22 16:15 ATA	Austin	C	1.00	N/A	100	N/A	1	M146226
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/28/22 9:02 KMA	Bryan	A	1.00	mL	6.00	mL	1	M146486
Nitrite as N	SM4500 NO2- B 2011	6/22/22 10:44 JLL	Austin	D	12.5	mL	25.0	mL	1	M146261
Phosphorus-Total	EPA 200.7 R4.4	6/23/22 9:05 ABM	Bryan	E	50.0	mL	25.0	mL	1	M146302
Total Dissolved Solids	SM2540 C 2015	6/28/22 13:31 ASF	Austin	D	50.0	mL	100	mL	1	M146506
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/23/22 9:00 KMA	Bryan	A	25.0	mL	25.0	mL	1	M146324
Total Suspended Solids	SM2540 D 2015	6/23/22 12:29 ATA	Austin	F	1000	mL	1000	mL	1	M146312
Turbidity	SM2130 B 2011	6/22/22 8:21 BEB	Austin	G	10.0	mL	10.0	mL	1	M146232

Chain-of-Custody and Analysis Request



Aqua-Tech laboratories, Inc.

C-O-C #

Client / Project Name: Power Engineers
Power Eng Quote 4917

Austin: 3512 Montopolis Dr. Austin, TX 78744 512.301.9559
Bryan: 635 Phil Gramm Blvd. Bryan, TX 77807 979.778.3707

F020665

Page 1 of 2

Contact Information
Name: Rob Von Czoernig
Address: -
City: -
State: - Zip: -
Phone: -
email: -

Definitions
DW Drinking Water
NP Non-Potable Water
S Solid
CM Custody Maintained
CTU Custody Transfer Unbroken
CT Corrected Temperature

Reagent tracking is available upon request.

T104704371
TX239

Test results meet all accreditation/certification requirements unless stated otherwise.

rite_ATL COC
102720.rpt

Sample Custody

Relinquished (print & sign) <i>Brett Reiman</i>	<input checked="" type="checkbox"/> Sampler <input type="checkbox"/> Client <input type="checkbox"/> ATL Field	Date: 6/21/22 Time: 1700	<input checked="" type="checkbox"/> Iced / Refrig <input type="checkbox"/> Custody Sealed
Received (print & sign)	<input type="checkbox"/> Client <input type="checkbox"/> ATL Field	Date: _____ Time: _____	<input type="checkbox"/> Iced / Refrig <input type="checkbox"/> CM / CTU
Relinquished (print & sign)	<input type="checkbox"/> Client <input type="checkbox"/> ATL Field	Date: _____ Time: _____	<input type="checkbox"/> Iced / Refrig <input type="checkbox"/> CM / CTU
Received (print & sign)	<input type="checkbox"/> Client <input type="checkbox"/> ATL Field	Date: _____ Time: _____	<input type="checkbox"/> Iced / Refrig <input type="checkbox"/> CM / CTU
Relinquished (print & sign)	<input type="checkbox"/> Client <input type="checkbox"/> ATL Field	Date: _____ Time: _____	<input type="checkbox"/> Iced / Refrig <input type="checkbox"/> CM / CTU / Sealed
Received (print & sign) <i>Kathryn Johnson</i>	<input checked="" type="checkbox"/> Lab	Date: 6/21/22 Time: 1400	<input checked="" type="checkbox"/> Cond Good <input checked="" type="checkbox"/> Iced / Refrig <input checked="" type="checkbox"/> CM / CTU

Analyses Rerquested: "A" prefix indicates Austin, all others Bryan or Subcontracted, indicated by [SUB].
Name format: Analysis-Matrix-Technology-Method.
[NEL] = NELAP accredited parameter [CNR] = No NELAP accreditation required or available
[SUB] = NELAP accredited subcontracted parameter [INF] = Informational only (not NELAC certified)

By relinquishing the samples listed below to Aqua-Tech Laboratories, Inc. (ATL), the client agrees to the following terms. Samples will be analyzed by a method that is within ATL's NELAP fields of accreditation (FoA). Analyses requiring an accredited method that is not within ATL's FoA will be subcontracted to a NELAP lab that is accredited for that method. Clients will be notified of the subcontract lab's details. Other analytes not requiring accreditation will be analyzed by a compendial method. If a specific method is required, the client will note the method in the "Analysis Requested" column. The client approves all method modifications documented by ATL or the subcontract lab.
A current list of ATL's NELAC fields of accreditation and other methods are available on request.

Comments:
635 X
CT 2
3-1/3-1
0704480
WCTJ
X notates bottles from cooler ID 635 WCTJ
✓ notates bottles from cooler ID 48 WCTJ

- LAB RECEIPT - WCTJ
Temperature - CT (C): 3.3
Preservation Correct: Y
Post-Preservatives: N
Thermometer ID: 0704480
pH Paper ID: 0709433

Field Sample ID	Start Date	Start Time	End Date	End Time	Composite Type	Sample Matrix	Container (Checked box indicates bottle arrived in lab) (Volume - Type - Preservative)	Lab ID
Power Eng Creek Monitoring Site #1	6/21/22	1030	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 L2 <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F020665-01
Power Eng Creek Monitoring Site #2	6/21/22	1050	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 L2 <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 L2 <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F020665-02
Power Eng Creek Monitoring Site #3	6/21/22	1100	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 L2 <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 L2 <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F020665-03

Client : Power Engineers

Field Sample ID	Start Date Time	End Date Time	Composite Type	Sample Matrix	Container (Checked box indicates bottle arrived in lab) (Volume - Type - Preservative)	Lab ID
Power Eng Creek Monitoring Site #4	6/21/22 1120	- N/A - - N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 L2 <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 L2 <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F020665-04
A CBOD NP Probe SM 5210 B [NEL] A TDS NP Grav SM2540 C [NEL] N Total Calc NP [CNR] P NP ICP EPA 200.7 [NEL]	A E.Coli MPN SM9223 B [NEL] A TSS NP Grav SM 2540 D [NEL] NH3N NP AUTO SM 4500 G [NEL] TKN NP AUTO EPA 351.2 [NEL]	A NO2N NP Spec SM4500 NO2 B [NEL] A Turbidity Neph SM2130 B [NEL] NO3N + NO2N NP RFA SM4500 NO3 F [CNR] Y Billing N Total Calc				
Power Eng Creek Monitoring Site #5	6/21/22 1215	- N/A - - N/A -	Grab	NP	<input type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 L2 <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 L2 <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F020665-05
A CBOD NP Probe SM 5210 B [NEL] A TDS NP Grav SM2540 C [NEL] N Total Calc NP [CNR] P NP ICP EPA 200.7 [NEL]	A E.Coli MPN SM9223 B [NEL] A TSS NP Grav SM 2540 D [NEL] NH3N NP AUTO SM 4500 G [NEL] TKN NP AUTO EPA 351.2 [NEL]	A NO2N NP Spec SM4500 NO2 B [NEL] A Turbidity Neph SM2130 B [NEL] NO3N + NO2N NP RFA SM4500 NO3 F [CNR] Y Billing N Total Calc				
Power Eng Creek Monitoring Site #6	6/21/22 1200	- N/A - - N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 L2 <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 L2 <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F020665-06
A CBOD NP Probe SM 5210 B [NEL] A TDS NP Grav SM2540 C [NEL] N Total Calc NP [CNR] P NP ICP EPA 200.7 [NEL]	A E.Coli MPN SM9223 B [NEL] A TSS NP Grav SM 2540 D [NEL] NH3N NP AUTO SM 4500 G [NEL] TKN NP AUTO EPA 351.2 [NEL]	A NO2N NP Spec SM4500 NO2 B [NEL] A Turbidity Neph SM2130 B [NEL] NO3N + NO2N NP RFA SM4500 NO3 F [CNR] Y Billing N Total Calc				

Email information for report date:

7/14/22 15:57

F020666

Power Engineers

Attn: Rob Von Czoernig

rob.vonczoernig@powereng.com

-

-, - -

ATL has improperly reported the field parameters pH, Chlorine, and DO as NEL Accredited.

ATL is accredited for these parameters when they are performed in the lab. These field parameters are now being reported with an ANR, "Accreditation not offered by the State of Texas," indicator.

There is no impact to the result values that have been previously reported.

Aqua-Tech values you as a customer and encourages you to speak with our staff at 979-778-3707 or samplingbryan@aquatechlabs.com if you have questions.

Thank you for your business,
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
3512 Montopolis Dr. Suite A
Austin, TX 78744
Phone: (512) 301-9559
Fax: (512) 301-9552

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 offered by the State of Texas.
- DWP Approval 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'.

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.

corp@aquatechlabs.com

www.aquatechlabs.com

T104704371-21-24



TCEQ DW Lab ID TX 239

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



AUSTIN OFFICE
 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

Analytical Report

Power Engineers

Report Printed:

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F020666

Power Eng Creek Monitoring Site #1

Collected: 06/23/22 12:55 by CLIENT
 Received: 06/23/22 16:16 by Brianna Burke

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F020666

Lab ID#	F020666-01	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		2	mg/L		1	1	1	Austin	06/24/22 07:45 HNJ	SM5210 B 2016	M146376	NEL
Total Suspended Solids		2	mg/L		1	1	1	Austin	06/28/22 13:31 ATA	SM2540 D 2015	M146502	NEL
Total Dissolved Solids		388	mg/L		25.0	50.0	50.0	Austin	06/28/22 16:57 ASF	SM2540 C 2015	M146508	NEL
Ammonia as N		<0.05	mg/L		0.05	0.05	0.05	Bryan	06/27/22 09:50 ATG	SM4500-NH3 G 2011	M146429	NEL
Total Kjeldahl Nitrogen as N		0.46	mg/L		0.18	0.18	0.20	Bryan	07/13/22 09:55 KMA	EPA 351.2 R2.0	M146625	NEL
Nitrite as N		0.01	mg/L		0.002	0.002	0.01	Austin	06/24/22 14:16 JLL	SM4500 NO2- B 2011	M146400	NEL
Nitrate/Nitrite as N		0.30	mg/L		0.02	0.02	0.02	Bryan	06/28/22 10:52 KMA	SM4500-NO3-F 2011	M146486	ANR
Nitrogen, Total		0.765	mg/L			0.220	0.220	Calc	07/13/22 09:55 KMA	Calculation	[CALC]	ANR
Turbidity		3.9	NTU		0.1	0.1	1.0	Austin	06/24/22 08:53 BEB	SM2130 B 2011	M146371	NEL
Microbiological Analyses												
E. Coli		19.7	MPN/100 mL		1.0	1.0	1.0	Austin	06/23/22 16:53 ATA	SM9223 B 2004	M146357	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total		0.059	mg/L		0.082	0.041	0.050	Bryan	06/30/22 17:41 CAK	EPA 200.7 R4.4	M146422	NEL

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
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 Fax: (512) 301-9552

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Power Eng Creek Monitoring Site #2

Collected: 06/23/22 13:15 by CLIENT
 Received: 06/23/22 16:16 by Brianna Burke

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F020666

Lab ID#	F020666-02	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		1	mg/L		1	1	1	Austin	06/24/22 07:45 HNJ	SM5210 B 2016	M146376	NEL
Total Suspended Solids		3	mg/L		1	1	1	Austin	06/28/22 13:31 ATA	SM2540 D 2015	M146502	NEL
Total Dissolved Solids		466	mg/L		25.0	50.0	50.0	Austin	06/28/22 16:57 ASF	SM2540 C 2015	M146508	NEL
Ammonia as N		<0.05	mg/L	RPD-01	0.05	0.05	0.05	Bryan	06/27/22 09:50 ATG	SM4500-NH3 G 2011	M146430	NEL
Total Kjeldahl Nitrogen as N		0.47	mg/L		0.18	0.18	0.20	Bryan	07/13/22 09:55 KMA	EPA 351.2 R2.0	M146626	NEL
Nitrite as N		0.03	mg/L		0.002	0.002	0.01	Austin	06/24/22 14:16 JLL	SM4500 NO2- B 2011	M146400	NEL
Nitrate/Nitrite as N		4.39	mg/L		0.02	0.03	0.04	Bryan	06/28/22 10:52 KMA	SM4500-NO3-F 2011	M146486	ANR
Nitrogen, Total		4.86	mg/L			0.240	0.240	Calc	07/13/22 09:55 KMA	Calculation	[CALC]	ANR
Turbidity		2.3	NTU		0.1	0.1	1.0	Austin	06/24/22 08:53 BEB	SM2130 B 2011	M146371	NEL
Microbiological Analyses												
E. Coli		155	MPN/100 mL		1.0	1.0	1.0	Austin	06/23/22 16:53 ATA	SM9223 B 2004	M146357	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total		0.100	mg/L		0.082	0.041	0.050	Bryan	06/30/22 17:51 CAK	EPA 200.7 R4.4	M146422	NEL

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



AUSTIN OFFICE
 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

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Power Eng Creek Monitoring Site #3

Collected: 06/23/22 13:35 by CLIENT
 Received: 06/23/22 16:16 by Brianna Burke

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F020666

Lab ID#	F020666-03	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		1	mg/L		1	1	1	Austin	06/24/22 07:45 HNJ	SM5210 B 2016	M146376	NEL
Total Suspended Solids		<1	mg/L		1	1	1	Austin	06/28/22 13:31 ATA	SM2540 D 2015	M146502	NEL
Total Dissolved Solids		430	mg/L		25.0	50.0	50.0	Austin	06/28/22 16:57 ASF	SM2540 C 2015	M146508	NEL
Ammonia as N		<0.05	mg/L	RPD-01	0.05	0.05	0.05	Bryan	06/27/22 09:50 ATG	SM4500-NH3 G 2011	M146430	NEL
Total Kjeldahl Nitrogen as N		0.36	mg/L		0.18	0.18	0.20	Bryan	07/13/22 09:55 KMA	EPA 351.2 R2.0	M146626	NEL
Nitrite as N		0.02	mg/L		0.002	0.002	0.01	Austin	06/24/22 14:16 JLL	SM4500 NO2- B 2011	M146401	NEL
Nitrate/Nitrite as N		1.52	mg/L		0.02	0.03	0.04	Bryan	06/28/22 10:52 KMA	SM4500-NO3-F 2011	M146486	ANR
Nitrogen, Total		1.88	mg/L			0.240	0.240	Calc	07/13/22 09:55 KMA	Calculation	[CALC]	ANR
Turbidity		<1.0	NTU	J (0.8)	0.1	0.1	1.0	Austin	06/24/22 08:53 BEB	SM2130 B 2011	M146371	NEL
Microbiological Analyses												
E. Coli		345	MPN/100 mL		1.0	1.0	1.0	Austin	06/23/22 16:53 ATA	SM9223 B 2004	M146357	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total		0.058	mg/L		0.082	0.041	0.050	Bryan	06/30/22 17:55 CAK	EPA 200.7 R4.4	M146422	NEL

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
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Power Eng Creek Monitoring Site #4

Collected: 06/23/22 13:55 by CLIENT
 Received: 06/23/22 16:16 by Brianna Burke

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F020666

Lab ID#	F020666-04	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		3	mg/L		1	1	1	Austin	06/24/22 07:45 HNJ	SM5210 B 2016	M146376	NEL
Total Suspended Solids		5	mg/L		1	1	1	Austin	06/28/22 13:31 ATA	SM2540 D 2015	M146502	NEL
Total Dissolved Solids		594	mg/L		25.0	50.0	50.0	Austin	06/28/22 16:57 ASF	SM2540 C 2015	M146508	NEL
Ammonia as N		1.58	mg/L		0.05	0.05	0.05	Bryan	07/06/22 11:58 KMA	SM4500-NH3 G 2011	M146830	NEL
Total Kjeldahl Nitrogen as N		1.80	mg/L		0.18	0.92	1.00	Bryan	07/13/22 09:55 KMA	EPA 351.2 R2.0	M146626	NEL
Nitrite as N		0.36	mg/L		0.002	0.01	0.05	Austin	06/24/22 14:16 JLL	SM4500 NO2- B 2011	M146400	NEL
Nitrate/Nitrite as N		9.85	mg/L		0.02	0.10	0.12	Bryan	06/28/22 10:52 KMA	SM4500-NO3-F 2011	M146492	ANR
Nitrogen, Total		11.7	mg/L			1.12	1.12	Calc	07/13/22 09:55 KMA	Calculation	[CALC]	ANR
Turbidity		3.6	NTU		0.1	0.1	1.0	Austin	06/24/22 08:53 BEB	SM2130 B 2011	M146371	NEL
Microbiological Analyses												
E. Coli		46100	MPN/100 mL		1.0	100	100	Austin	06/23/22 16:53 ATA	SM9223 B 2004	M146357	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total		1.84	mg/L		0.082	0.041	0.050	Bryan	06/30/22 17:58 CAK	EPA 200.7 R4.4	M146422	NEL

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

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Power Eng Creek Monitoring Site #5

Collected: 06/23/22 14:45 by CLIENT
 Received: 06/23/22 16:16 by Brianna Burke

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F020666

Lab ID#	F020666-05	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		3	mg/L		1	1	1	Austin	06/24/22 07:45 HNJ	SM5210 B 2016	M146376	NEL
Total Suspended Solids		4	mg/L		1	2	2	Austin	06/28/22 13:31 ATA	SM2540 D 2015	M146502	NEL
Total Dissolved Solids		634	mg/L		25.0	50.0	50.0	Austin	06/28/22 16:57 ASF	SM2540 C 2015	M146508	NEL
Ammonia as N		1.55	mg/L	RPD-01	0.05	0.05	0.05	Bryan	06/27/22 09:50 ATG	SM4500-NH3 G 2011	M146430	NEL
Total Kjeldahl Nitrogen as N		1.95	mg/L		0.18	0.18	0.20	Bryan	07/13/22 09:55 KMA	EPA 351.2 R2.0	M146626	NEL
Nitrite as N		0.46	mg/L		0.002	0.01	0.05	Austin	06/24/22 14:16 JLL	SM4500 NO2- B 2011	M146400	NEL
Nitrate/Nitrite as N		9.78	mg/L		0.02	0.03	0.04	Bryan	06/28/22 10:52 KMA	SM4500-NO3-F 2011	M146486	ANR
Nitrogen, Total		11.7	mg/L			0.240	0.240	Calc	07/13/22 09:55 KMA	Calculation	[CALC]	ANR
Turbidity		3.0	NTU		0.1	0.1	1.0	Austin	06/24/22 08:53 BEB	SM2130 B 2011	M146371	NEL
Microbiological Analyses												
E. Coli		61300	MPN/100 mL		1.0	100	100	Austin	06/23/22 16:53 ATA	SM9223 B 2004	M146357	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total		1.88	mg/L		0.082	0.041	0.050	Bryan	06/30/22 18:01 CAK	EPA 200.7 R4.4	M146422	NEL

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



AUSTIN OFFICE
 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

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Power Eng Creek Monitoring Site #6

Collected: 06/23/22 14:20 by CLIENT
 Received: 06/23/22 16:16 by Brianna Burke

Type
 Grab

Matrix
 Non Potable

C-O-C #
 F020666

Lab ID#	F020666-06	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry												
Carbonaceous BOD (5 day)		3	mg/L		1	1	1	Austin	06/24/22 07:45 HNJ	SM5210 B 2016	M146376	NEL
Total Suspended Solids		1	mg/L		1	1	1	Austin	06/28/22 13:31 ATA	SM2540 D 2015	M146502	NEL
Total Dissolved Solids		572	mg/L		25.0	50.0	50.0	Austin	06/28/22 16:57 ASF	SM2540 C 2015	M146508	NEL
Ammonia as N		1.31	mg/L		0.05	0.05	0.05	Bryan	06/27/22 09:50 ATG	SM4500-NH3 G 2011	M146429	NEL
Total Kjeldahl Nitrogen as N		1.37	mg/L		0.18	0.18	0.20	Bryan	07/13/22 09:55 KMA	EPA 351.2 R2.0	M146626	NEL
Nitrite as N		0.64	mg/L		0.002	0.01	0.06	Austin	06/24/22 14:16 JLL	SM4500 NO2- B 2011	M146400	NEL
Nitrate/Nitrite as N		9.27	mg/L		0.02	0.10	0.12	Bryan	06/28/22 10:52 KMA	SM4500-NO3-F 2011	M146492	ANR
Nitrogen, Total		10.6	mg/L			0.320	0.320	Calc	07/13/22 09:55 KMA	Calculation	[CALC]	ANR
Turbidity		1.8	NTU		0.1	0.1	1.0	Austin	06/24/22 08:53 BEB	SM2130 B 2011	M146371	NEL
Microbiological Analyses												
E. Coli		29100	MPN/100 mL		1.0	100	100	Austin	06/23/22 16:53 ATA	SM9223 B 2004	M146357	NEL
Results run by SM 9223B are reported as MPN (Most Probable Number). MPN is comparable to CFU (Colony Forming Units). Both MPN and CFU are allowed in most permits.												
Metals (Total)												
Phosphorus-Total		2.02	mg/L		0.082	0.041	0.050	Bryan	06/30/22 18:04 CAK	EPA 200.7 R4.4	M146422	NEL

Explanation of Notes

- J Analyte detected below the SQL but above the MDL.
- RPD-01 Duplicate RPD is outside acceptable range. Acceptance of run is not based on matrix QC.
- RPD-02 RPD was not calculated in LIMS due to one or both of the sample / duplicate pair being less than the MRL.

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
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 Fax: (512) 301-9552

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General Chemistry - Quality Control												
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Ammonia as N - SM4500-NH3 G 2011												<i>Bryan</i>
Initial Cal Check	1.05	mg/L			06/27/22 09:50 ATG	1.00		105	90 - 110			2206326
Low Cal Check	0.05	mg/L			06/27/22 09:50 ATG	0.0500		108	70 - 130			2206326
Blank	<0.05	mg/L	0.05	0.05	06/27/22 09:50 ATG							M146429
LCS	0.56	mg/L	0.05	0.05	06/27/22 09:50 ATG	0.500		111	85 - 115			M146429
LCS Dup	0.56	mg/L	0.05	0.05	06/27/22 09:50 ATG	0.500		111	85 - 115	0.360	10	M146429
Matrix Spike	0.64	mg/L	0.05	0.05	06/27/22 09:50 ATG	0.500	0.09	110	70 - 130			M146429
Matrix Spike Dup	0.63	mg/L	0.05	0.05	06/27/22 09:50 ATG	0.500	0.09	108	70 - 130	1.83	20	M146429
Blank	<0.05	mg/L	0.05	0.05	06/27/22 09:50 ATG							M146430
LCS	0.56	mg/L	0.05	0.05	06/27/22 09:50 ATG	0.500		112	85 - 115			M146430
LCS Dup	0.56	mg/L	0.05	0.05	06/27/22 09:50 ATG	0.500		113	85 - 115	0.178	10	M146430
Matrix Spike	2.55	mg/L	0.05	0.05	06/27/22 09:50 ATG	0.500	2.15	79.8	70 - 130			M146430
Matrix Spike Dup	2.68	mg/L	0.05	0.05	06/27/22 09:50 ATG	0.500	2.15	105	70 - 130	26.9	20	M146430
Initial Cal Check	0.96	mg/L			07/06/22 11:58 KMA	1.00		95.8	90 - 110			2207042
Low Cal Check	0.06	mg/L			07/06/22 11:58 KMA	0.0500		112	70 - 130			2207042
Blank	<0.05	mg/L	0.05	0.05	07/06/22 11:58 KMA							M146830
LCS	0.52	mg/L	0.05	0.05	07/06/22 11:58 KMA	0.500		104	85 - 115			M146830
LCS Dup	0.52	mg/L	0.05	0.05	07/06/22 11:58 KMA	0.500		104	85 - 115	0.00	10	M146830
Matrix Spike	0.63	mg/L	0.05	0.05	07/06/22 11:58 KMA	0.500	0.08	109	70 - 130			M146830
Matrix Spike Dup	0.63	mg/L	0.05	0.05	07/06/22 11:58 KMA	0.500	0.08	110	70 - 130	0.365	20	M146830
Carbonaceous BOD (5 day) - SM5210 B 2016												<i>Austin</i>
Diln Water Blk	<0.20	mg/L	1	1	06/24/22 07:45 HNJ		0.1		< or = 0.2 mg/L			2206312
GGA	170	mg/L	1	1	06/24/22 07:45 HNJ	198		85.9	84.6 - 115.4			2206312
GGA	199	mg/L	1	1	06/24/22 07:45 HNJ	198		101	84.6 - 115.4			2206312
GGA	212	mg/L	1	1	06/24/22 07:45 HNJ	198		107	84.6 - 115.4			2206312
Seed Blank	<1	mg/L	1	1	06/24/22 07:45 HNJ							2206312
Seed Blank	<1	mg/L	1	1	06/24/22 07:45 HNJ							2206312
Seed Blank	<1	mg/L	1	1	06/24/22 07:45 HNJ							2206312
Duplicate	<1	mg/L	1	1	06/24/22 07:45 HNJ		<1				40.6	M146376

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
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General Chemistry - Quality Control													
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	
Nitrate/Nitrite as N - SM4500-NO3-F 2011													<i>Bryan</i>
Initial Cal Check	0.79	mg/L			06/28/22 10:52 KMA	0.740		107	90 - 110			2206338	
Low Cal Check	0.02	mg/L			06/28/22 10:52 KMA	0.0200		105	70 - 130			2206338	
Blank	<0.02	mg/L	0.02	0.02	06/28/22 10:52 KMA							M146486	
LCS	0.52	mg/L	0.02	0.02	06/28/22 10:52 KMA	0.500		104	90.1 - 115			M146486	
LCS Dup	0.51	mg/L	0.02	0.02	06/28/22 10:52 KMA	0.500		102	90.1 - 115	1.36	6.1	M146486	
Matrix Spike	9.30	mg/L	0.10	0.12	06/28/22 10:52 KMA	4.50	4.39	109	84.8 - 120			M146486	
Matrix Spike Dup	9.39	mg/L	0.10	0.12	06/28/22 10:52 KMA	4.50	4.39	111	84.8 - 120	1.88	8.35	M146486	
Blank	<0.02	mg/L	0.02	0.02	06/28/22 10:52 KMA							M146492	
LCS	0.50	mg/L	0.02	0.02	06/28/22 10:52 KMA	0.500		101	90.1 - 115			M146492	
LCS Dup	0.52	mg/L	0.02	0.02	06/28/22 10:52 KMA	0.500		103	90.1 - 115	1.96	6.1	M146492	
Matrix Spike	14.0	mg/L	0.15	0.18	06/28/22 10:52 KMA	4.50	9.27	105	84.8 - 120			M146492	
Matrix Spike Dup	13.9	mg/L	0.15	0.18	06/28/22 10:52 KMA	4.50	9.27	103	84.8 - 120	2.04	8.35	M146492	
Nitrite as N - SM4500 NO2- B 2011													<i>Austin</i>
Initial Cal Check	0.08	mg/L			06/24/22 14:16 JLL	0.0806		101	90 - 110			2206318	
Low Cal Check	0.009	mg/L			06/24/22 14:16 JLL	0.0100		93.1	0 - 200			2206318	
Blank	<0.01	mg/L	0.002	0.01	06/24/22 14:16 JLL							M146400	
LCS	0.08	mg/L	0.002	0.01	06/24/22 14:16 JLL	0.0800		100	90 - 110			M146400	
Matrix Spike	0.11	mg/L	0.002	0.01	06/24/22 14:16 JLL	0.0800	0.03	100	74.6 - 107			M146400	
Matrix Spike Dup	0.11	mg/L	0.002	0.01	06/24/22 14:16 JLL	0.0800	0.03	101	74.6 - 107	0.893	4.22	M146400	
MRL Check	<0.01	mg/L	0.002	0.01	06/24/22 14:16 JLL	0.0100		93.1	70 - 130			M146400	
Blank	<0.01	mg/L	0.002	0.01	06/24/22 14:16 JLL							M146401	
LCS	0.09	mg/L	0.002	0.01	06/24/22 14:16 JLL	0.0800		108	90 - 110			M146401	
Matrix Spike	0.11	mg/L	0.002	0.01	06/24/22 14:16 JLL	0.0800	0.02	104	74.6 - 107			M146401	
Matrix Spike Dup	0.10	mg/L	0.002	0.01	06/24/22 14:16 JLL	0.0800	0.02	100	74.6 - 107	3.96	4.22	M146401	
Initial Cal Check	0.11	mg/L			10/06/21 08:31 SR	0.100		107	90 - 110			2110050	
Total Dissolved Solids - SM2540 C 2015													<i>Austin</i>
Blank	<25.0	mg/L	25.0	25.0	06/28/22 16:57 ASF							M146508	
Duplicate	548	mg/L	50.0	50.0	06/28/22 16:57 ASF		572			4.29	13.9	M146508	
Reference	496	mg/L	100	100	06/28/22 16:57 ASF	500		99.2	66 - 140			M146508	

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



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General Chemistry - Quality Control												
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Total Kjeldahl Nitrogen as N - EPA 351.2 R2.0												<i>Bryan</i>
Low Cal Check	0.21	mg/L			07/13/22 09:55 KMA	0.200		107	70 - 130			2207120
Blank	<0.20	mg/L	0.18	0.20	07/13/22 09:55 KMA							M146625
LCS	7.61	mg/L	0.18	0.20	07/13/22 09:55 KMA	8.00		95.1	85 - 115			M146625
LCS Dup	7.67	mg/L	0.18	0.20	07/13/22 09:55 KMA	8.00		95.8	85 - 115	0.748	10	M146625
Matrix Spike	9.01	mg/L	0.18	0.20	07/13/22 09:55 KMA	8.00	1.51	93.8	70 - 130			M146625
Matrix Spike Dup	9.09	mg/L	0.18	0.20	07/13/22 09:55 KMA	8.00	1.51	94.8	70 - 130	1.10	20	M146625
MRL Check	0.21	mg/L	0.18	0.20	07/13/22 09:55 KMA	0.200		107	70 - 130			M146625
Reference	4.87	mg/L	0.18	0.20	07/13/22 09:55 KMA	5.18		94.0	90 - 110			M146625
Blank	<0.20	mg/L	0.18	0.20	07/13/22 09:55 KMA							M146626
LCS	7.61	mg/L	0.18	0.20	07/13/22 09:55 KMA	8.00		95.1	85 - 115			M146626
LCS Dup	7.67	mg/L	0.18	0.20	07/13/22 09:55 KMA	8.00		95.8	85 - 115	0.748	10	M146626
Matrix Spike	7.71	mg/L	0.18	0.20	07/13/22 09:55 KMA	8.00	0.31	92.5	70 - 130			M146626
Matrix Spike Dup	7.50	mg/L	0.18	0.20	07/13/22 09:55 KMA	8.00	0.31	89.9	70 - 130	2.84	20	M146626
Reference	4.87	mg/L	0.18	0.20	07/13/22 09:55 KMA	5.18		94.0	90 - 110			M146626
Total Suspended Solids - SM2540 D 2015												<i>Austin</i>
Blank	<1	mg/L	1	1	06/28/22 13:31 ATA							M146502
Duplicate	2	mg/L	1	1	06/28/22 13:31 ATA		<1				37.6	M146502
Reference	93	mg/L	10	10	06/28/22 13:31 ATA	101		92.1	80 - 120			M146502
Turbidity - SM2130 B 2011												<i>Austin</i>
Initial Cal Check	4.4	NTU			06/15/22 08:24 BEB	4.06		109	90 - 110			2206190
Low Cal Check	1.2	NTU			06/15/22 08:24 BEB	1.01		115	70 - 130			2206190
Initial Cal Check	4.4	NTU			06/15/22 15:18 BEB	4.06		109	90 - 110			2206199
Initial Cal Check	3.7	NTU			06/24/22 08:53 BEB	3.70		101	90 - 110			2206311
Blank	<1.0	NTU	0.1	1.0	06/24/22 08:53 BEB							M146371
Duplicate	3.1	NTU	0.1	1.0	06/24/22 08:53 BEB		3.6			16.9	25.5	M146371
MRL Check	1.2	NTU	0.1	1.0	06/24/22 08:53 BEB	1.01		117	70 - 130			M146371
Metals (Total) - Quality Control												
Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch

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



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 3512 Montopolis Dr. Suite A
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Metals (Total) - Quality Control

Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch
Phosphorus-Total - EPA 200.7 R4.4												<i>Bryan</i>
Blank	<0.050	mg/L	0.041	0.050	06/30/22 17:06 CAK							M146422
LCS	4.89	mg/L	0.041	0.050	06/30/22 17:09 CAK	5.00		97.8	84.5 - 115.4			M146422
LCS Dup	4.78	mg/L	0.041	0.050	06/30/22 17:12 CAK	5.00		95.7	84.5 - 115.4	2.18	20	M146422
Duplicate	11.0	mg/L	0.041	0.050	06/30/22 17:15 CAK		10.8			1.74	20	M146422
Matrix Spike	16.2	mg/L	0.041	0.050	06/30/22 17:20 CAK	5.00	10.8	109	69.5 - 130.4			M146422

Microbiological Analyses - Quality Control

Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	Log10 Comparison Range	Control Limit	Batch
E. Coli - SM9223 B 2004												<i>Austin</i>
Blank	<1.0	MPN/100 mL	1.0	1.0	06/23/22 15:46 ATA							M146357
Dup Log10 Range		MPN/100 mL	1.0	1.0	06/23/22 15:46 ATA					0.000		M146357
Duplicate	<1.0	MPN/100 mL	1.0	1.0	06/23/22 15:46 ATA		<1.0				0.564	M146357

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



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Sample Preparation Summary

Sample	Method	Prepared	Lab	Bottle	Initial	Units	Final	Units	External Dilution Factor	Batch
F020666-01										
Ammonia as N	SM4500-NH3 G 2011	6/27/22 9:50 ATG	Bryan	A	10.0	mL	10.0	mL	1	M146429
Carbonaceous BOD (5 day)	SM5210 B 2016	6/24/22 7:45 HNJ	Austin	B	300	mL	300	mL	1	M146376
E. Coli	SM9223 B 2004	6/23/22 16:44 ATA	Austin	C	100	N/A	100	N/A	1	M146357
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/28/22 9:02 KMA	Bryan	A	10.0	mL	10.0	mL	1	M146486
Nitrite as N	SM4500 NO2- B 2011	6/24/22 14:16 JLL	Austin	D	25.0	mL	25.0	mL	1	M146400
Phosphorus-Total	EPA 200.7 R4.4	6/27/22 8:50 ABM	Bryan	E	50.0	mL	25.0	mL	1	M146422
Total Dissolved Solids	SM2540 C 2015	6/28/22 13:42 ASF	Austin	D	50.0	mL	100	mL	1	M146508
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/30/22 9:07 KMA	Bryan	A	25.0	mL	25.0	mL	1	M146625
Total Suspended Solids	SM2540 D 2015	6/28/22 13:31 ATA	Austin	F	1000	mL	1000	mL	1	M146502
Turbidity	SM2130 B 2011	6/24/22 8:53 BEB	Austin	G	10.0	mL	10.0	mL	1	M146371
F020666-02										
Ammonia as N	SM4500-NH3 G 2011	6/27/22 9:50 ATG	Bryan	A	10.0	mL	10.0	mL	1	M146430
Carbonaceous BOD (5 day)	SM5210 B 2016	6/24/22 7:45 HNJ	Austin	B	300	mL	300	mL	1	M146376
E. Coli	SM9223 B 2004	6/23/22 16:44 ATA	Austin	C	100	N/A	100	N/A	1	M146357
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/28/22 9:02 KMA	Bryan	A	1.00	mL	2.00	mL	1	M146486
Nitrite as N	SM4500 NO2- B 2011	6/24/22 14:16 JLL	Austin	D	25.0	mL	25.0	mL	1	M146400
Phosphorus-Total	EPA 200.7 R4.4	6/27/22 8:50 ABM	Bryan	E	50.0	mL	25.0	mL	1	M146422
Total Dissolved Solids	SM2540 C 2015	6/28/22 13:42 ASF	Austin	D	50.0	mL	100	mL	1	M146508
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/30/22 9:16 KMA	Bryan	A	25.0	mL	25.0	mL	1	M146626
Total Suspended Solids	SM2540 D 2015	6/28/22 13:31 ATA	Austin	F	1000	mL	1000	mL	1	M146502
Turbidity	SM2130 B 2011	6/24/22 8:53 BEB	Austin	G	10.0	mL	10.0	mL	1	M146371
F020666-03										
Ammonia as N	SM4500-NH3 G 2011	6/27/22 9:50 ATG	Bryan	A	10.0	mL	10.0	mL	1	M146430
Carbonaceous BOD (5 day)	SM5210 B 2016	6/24/22 7:45 HNJ	Austin	B	300	mL	300	mL	1	M146376
E. Coli	SM9223 B 2004	6/23/22 16:44 ATA	Austin	C	100	N/A	100	N/A	1	M146357
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/28/22 9:02 KMA	Bryan	A	1.00	mL	2.00	mL	1	M146486
Nitrite as N	SM4500 NO2- B 2011	6/24/22 14:16 JLL	Austin	D	25.0	mL	25.0	mL	1	M146401
Phosphorus-Total	EPA 200.7 R4.4	6/27/22 8:50 ABM	Bryan	E	50.0	mL	25.0	mL	1	M146422
Total Dissolved Solids	SM2540 C 2015	6/28/22 13:42 ASF	Austin	D	50.0	mL	100	mL	1	M146508
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/30/22 9:16 KMA	Bryan	A	25.0	mL	25.0	mL	1	M146626
Total Suspended Solids	SM2540 D 2015	6/28/22 13:31 ATA	Austin	F	1000	mL	1000	mL	1	M146502
Turbidity	SM2130 B 2011	6/24/22 8:53 BEB	Austin	G	10.0	mL	10.0	mL	1	M146371

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



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 3512 Montopolis Dr. Suite A
 Austin, TX 78744
 Phone: (512) 301-9559
 Fax: (512) 301-9552

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Sample Preparation Summary

Sample	Method	Prepared	Lab	Bottle	Initial	Units	Final	Units	External Dilution Factor	Batch
F020666-04										
Ammonia as N	SM4500-NH3 G 2011	7/6/22 8:29 KMA	Bryan	A	10.0	mL	10.0	mL	1	M146830
Carbonaceous BOD (5 day)	SM5210 B 2016	6/24/22 7:45 HNJ	Austin	B	300	mL	300	mL	1	M146376
E. Coli	SM9223 B 2004	6/23/22 16:44 ATA	Austin	C	1.00	N/A	100	N/A	1	M146357
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/28/22 9:02 KMA	Bryan	A	1.00	mL	6.00	mL	1	M146492
Nitrite as N	SM4500 NO2- B 2011	6/24/22 14:16 JLL	Austin	D	5.00	mL	25.0	mL	1	M146400
Phosphorus-Total	EPA 200.7 R4.4	6/27/22 8:50 ABM	Bryan	E	50.0	mL	25.0	mL	1	M146422
Total Dissolved Solids	SM2540 C 2015	6/28/22 13:42 ASF	Austin	D	50.0	mL	100	mL	1	M146508
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/30/22 9:16 KMA	Bryan	A	5.00	mL	25.0	mL	1	M146626
Total Suspended Solids	SM2540 D 2015	6/28/22 13:31 ATA	Austin	F	1000	mL	1000	mL	1	M146502
Turbidity	SM2130 B 2011	6/24/22 8:53 BEB	Austin	G	10.0	mL	10.0	mL	1	M146371
F020666-05										
Ammonia as N	SM4500-NH3 G 2011	6/27/22 9:50 ATG	Bryan	A	10.0	mL	10.0	mL	1	M146430
Carbonaceous BOD (5 day)	SM5210 B 2016	6/24/22 7:45 HNJ	Austin	B	300	mL	300	mL	1	M146376
E. Coli	SM9223 B 2004	6/23/22 16:44 ATA	Austin	C	1.00	N/A	100	N/A	1	M146357
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/28/22 9:02 KMA	Bryan	A	1.00	mL	2.00	mL	1	M146486
Nitrite as N	SM4500 NO2- B 2011	6/24/22 14:16 JLL	Austin	D	5.00	mL	25.0	mL	1	M146400
Phosphorus-Total	EPA 200.7 R4.4	6/27/22 8:50 ABM	Bryan	E	50.0	mL	25.0	mL	1	M146422
Total Dissolved Solids	SM2540 C 2015	6/28/22 13:42 ASF	Austin	D	50.0	mL	100	mL	1	M146508
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/30/22 9:16 KMA	Bryan	A	25.0	mL	25.0	mL	1	M146626
Total Suspended Solids	SM2540 D 2015	6/28/22 13:31 ATA	Austin	F	500	mL	1000	mL	1	M146502
Turbidity	SM2130 B 2011	6/24/22 8:53 BEB	Austin	G	10.0	mL	10.0	mL	1	M146371
F020666-06										
Ammonia as N	SM4500-NH3 G 2011	6/27/22 9:50 ATG	Bryan	A	10.0	mL	10.0	mL	1	M146429
Carbonaceous BOD (5 day)	SM5210 B 2016	6/24/22 7:45 HNJ	Austin	B	300	mL	300	mL	1	M146376
E. Coli	SM9223 B 2004	6/23/22 16:44 ATA	Austin	C	1.00	N/A	100	N/A	1	M146357
Nitrate/Nitrite as N	SM4500-NO3-F 2011	6/28/22 9:02 KMA	Bryan	A	1.00	mL	6.00	mL	1	M146492
Nitrite as N	SM4500 NO2- B 2011	6/24/22 14:16 JLL	Austin	D	4.00	mL	25.0	mL	1	M146400
Phosphorus-Total	EPA 200.7 R4.4	6/27/22 8:50 ABM	Bryan	E	50.0	mL	25.0	mL	1	M146422
Total Dissolved Solids	SM2540 C 2015	6/28/22 13:42 ASF	Austin	D	50.0	mL	100	mL	1	M146508
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	6/30/22 9:16 KMA	Bryan	A	25.0	mL	25.0	mL	1	M146626
Total Suspended Solids	SM2540 D 2015	6/28/22 13:31 ATA	Austin	F	1000	mL	1000	mL	1	M146502
Turbidity	SM2130 B 2011	6/24/22 8:53 BEB	Austin	G	10.0	mL	10.0	mL	1	M146371

Chain-of-Custody and Analysis Request



Aqua-Tech laboratories, Inc.

C-O-C #

Client / Project Name: Power Engineers
Power Eng Quote 4917

Austin
3512 Montopolis Dr.
Austin, TX 78744
512.301.9559

Bryan
635 Phil Gramm Blvd.
Bryan, TX 77807
979.778.3707

F020666

Page 1 of 2

Contact Information
Name: Rob Von Czoernig
Address: -
City: -
State: - Zip: -
Phone: -
email: -

Definitions
DW Drinking Water
NP Non-Potable Water
S Solid
CM Custody Maintained
CTU Custody Transfer Unbroken
CT Corrected Temperature

Reagent tracking is available upon request.

T104704371
TX239

Test results meet all accreditation/certification requirements unless stated otherwise.

rte_ATL COC
102720.rpt

Analyses Requested: "A" prefix indicates Austin, all others Bryan or Subcontracted, indicated by [SUB].
Name format: Analysis-Matrix-Technology-Method.

[NEL] = NELAP accredited parameter
[SUB] = NELAP accredited subcontracted parameter

[CNR] = No NELAP accreditation required or available
[INF] = Informational only (not NELAC certified)

By relinquishing the samples listed below to Aqua-Tech laboratories, Inc. (ATL), the client agrees to the following terms. Samples will be analyzed by a method that is within ATL's NELAP fields of accreditation (FoA). Analytes requiring an accredited method that is not within ATL's FoA will be subcontracted to a NELAP lab that is accredited for that method. Clients will be notified of the subcontract lab's details. Other analytes not requiring accreditation will be analyzed by a compendial method. If a specific method is required, the client will note the method in the "Analysis Requested" column. The client approves all method modifications documented by ATL or the subcontract lab.

A current list of ATL's NELAC fields of accreditation and other methods are available on request.

Sample Custody		
Relinquished (print & sign) <i>STEVE McVEY</i>	<input type="checkbox"/> Sampler <input type="checkbox"/> Client <input type="checkbox"/> ATL Field	Date: 6/23/22 Time: 1532 <input type="checkbox"/> Iced / Refrig <input type="checkbox"/> Custody Sealed
Received (print & sign) <i>Brianna Burke</i>	<input type="checkbox"/> Client <input checked="" type="checkbox"/> ATL Field	Date: 6/23/22 Time: 1832 <input checked="" type="checkbox"/> Iced / Refrig <input checked="" type="checkbox"/> CM / CTU
Relinquished (print & sign) <i>NFECB</i>	<input type="checkbox"/> Client <input type="checkbox"/> ATL Field	Date: Time: <input type="checkbox"/> Iced / Refrig <input type="checkbox"/> CM / CTU
Received (print & sign)	<input type="checkbox"/> Client <input type="checkbox"/> ATL Field	Date: Time: <input type="checkbox"/> Iced / Refrig <input type="checkbox"/> CM / CTU
Relinquished (print & sign) <i>Brianna Burke</i>	<input type="checkbox"/> Client <input checked="" type="checkbox"/> ATL Field	Date: 06/23/22 Time: 16:16 <input checked="" type="checkbox"/> Iced / Refrig <input checked="" type="checkbox"/> CM / CTU / Sealed
Received (print & sign) <i>Brian</i>	<input checked="" type="checkbox"/> Lab	Date: 06/23/22 Time: 16:16 <input checked="" type="checkbox"/> Cond Good <input checked="" type="checkbox"/> Iced / Refrig <input checked="" type="checkbox"/> CM / CTU

Comments:
Please note that I did not use the correctly numbered bottles. So the bar codes are not correct. 01-03 in cooler 5, 04-06 in cooler 6 (BEB)

- LAB RECEIPT - B015	
Temperature - CT (C):	4.7
Preservation Correct:	Yes
Post-Preservatives:	N/A
Thermometer ID:	0715672
pH Paper ID:	0789433
ko_A COC MULTI 042020.rpt	

Field Sample ID	Start Date	Start Time	End Date	End Time	Composite Type	Sample Matrix	Container (Checked box indicates bottle arrived in lab) (Volume - Type - Preservative)	Lab ID
Power Eng Creek Monitoring Site #1	6/23/22	1255	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 L2 <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 L2 <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F020666-01
Power Eng Creek Monitoring Site #2	6/23/22	1315	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 L2 <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 L2 <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F020666-02
Power Eng Creek Monitoring Site #3	6/23/22	1335	- N/A -	- N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 L2 <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 L2 <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F020666-03

Client : Power Engineers

Field Sample ID	Start Date Date Time	End Date Date Time	Composite Type	Sample Matrix	Container (Checked box indicates bottle arrived in lab) (Volume - Type - Preservative)	Lab ID
Power Eng Creek Monitoring Site #4 A CBOD NP Probe SM 5210 B [NEL] A TDS NP Grav SM2540 C [NEL] N Total Calc NP [CNR] P NP ICP EPA 200.7 [NEL]	6/23/22 1355	- N/A - - N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 LL <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 LL <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F020666-04
A E.Coli MPN SM9223 B [NEL] A TSS NP Grav SM 2540 D [NEL] NH3N NP AUTO SM 4500 G [NEL] TKN NP AUTO EPA 351.2 [NEL]						
A NO2N NP Spec SM4500 NO2 B [NEL] A Turbidity Neph SM2130 B [NEL] NO3N + NO2N NP RFA SM4500 NO3 F [CNR] Y Billing N Total Calc						
Power Eng Creek Monitoring Site #5 A CBOD NP Probe SM 5210 B [NEL] A TDS NP Grav SM2540 C [NEL] N Total Calc NP [CNR] P NP ICP EPA 200.7 [NEL]	6/23/22 1445	- N/A - - N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 LL <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 LL <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F020666-05
A E.Coli MPN SM9223 B [NEL] A TSS NP Grav SM 2540 D [NEL] NH3N NP AUTO SM 4500 G [NEL] TKN NP AUTO EPA 351.2 [NEL]						
A NO2N NP Spec SM4500 NO2 B [NEL] A Turbidity Neph SM2130 B [NEL] NO3N + NO2N NP RFA SM4500 NO3 F [CNR] Y Billing N Total Calc						
Power Eng Creek Monitoring Site #6 A CBOD NP Probe SM 5210 B [NEL] A TDS NP Grav SM2540 C [NEL] N Total Calc NP [CNR] P NP ICP EPA 200.7 [NEL]	6/23/22 1420	- N/A - - N/A -	Grab	NP	<input checked="" type="checkbox"/> A AMM NO3 TKN 0.25LP H2SO4 LL <input checked="" type="checkbox"/> B CBOD 1LP <input checked="" type="checkbox"/> C Ecoli 0.15L StP Na2S2O3 <input checked="" type="checkbox"/> D NO2 TDS 0.5LP <input checked="" type="checkbox"/> E P 0.25LP H2SO4 LL <input checked="" type="checkbox"/> F TSS 2LP <input checked="" type="checkbox"/> G TURB 0.1LP	F020666-06
A E.Coli MPN SM9223 B [NEL] A TSS NP Grav SM 2540 D [NEL] NH3N NP AUTO SM 4500 G [NEL] TKN NP AUTO EPA 351.2 [NEL]						
A NO2N NP Spec SM4500 NO2 B [NEL] A Turbidity Neph SM2130 B [NEL] NO3N + NO2N NP RFA SM4500 NO3 F [CNR] Y Billing N Total Calc						

-04 to -06 in cooler #49 therm# 6.0/6.0 at 0715672
pH paper # 0789433 LSN7