

BIO CHEM LAB, INC. PHONE: 254.829.8001 FAX: 254.829.8013
4751 TOKIO ROAD - WEST, TX 76691

ANALYTICAL REPORTS**CLIENT IDENTIFICATION INFORMATION:**

CITY OF WEST
 P O BOX 97
 WEST, TX 76691
 CLIENT CONTACT: CHARLES GILLASPIE, JR.

JUNE 2019 WEST

REPORT ID: WES-070819
 LAB CONTACT: ANDREW JANEK
 REPORT DATE: 7.8.19

DRINKING WATER QUALITY PARAMETERS**FIELD DATA / SAMPLE DESCRIPTION / METHOD**

	DS01 DSTWQP 1108 N. DAVIS ST.	DS01 DSTWQP 413 S. DAVIS ST.	DS01 EWQP P1550009A	PBCU005 EWQP G1550009E	PBCU007 EWQP G1550009F
Collection Point					
Date/ Time Collected	6.24.19 / 10:53	6.24.19 / 11:00	6.24.19 / 10:27	6.24.19 / 10:37	6.24.19 / 10:45
Date/ Time received by Lab	6.24.19 / 11:30	6.24.19 / 11:30	6.24.19 / 11:30	6.24.19 / 11:30	6.24.19 / 11:30
Laboratory Sample ID	10407-19	10408-19	10409-19	10410-19	10411-19
Sampling Description/Procedure	Collected with Client	Collected with Client	Collected with Client	Collected with Client	Collected with Client
Sample Type	Grab	Grab	Grab	Grab	Grab
Sample Matrix	Aqueous-PW	Aqueous-PW	Aqueous-PW	Aqueous-PW	Aqueous-PW
pH, SU	SM 4500-H+-B. 7.94	6.85	6.84	7.90	7.80
Temperature, C	SM 2500 27.8	27.8	24.1	31.5	33.1
Collector	C. Gilaspie / AJ	C. Gilaspie / AJ	C. Gilaspie / AJ	C. Gilaspie / AJ	C. Gilaspie / AJ

PARAMETER / UNIT / METHOD

Total Dissolved Solids, mg/L	SM 2540-C	622.	322.	284.	621.	630.
Reporting Limit, mg/L		20.	20.	20.	20.	20.
Dilution Factor		1	1	1	1	1
Date / Time Analyzed		6.27.19 / 10:25	6.27.19 / 10:25	6.27.19 / 10:25	6.27.19 / 10:25	6.27.19 / 10:25
Analyst Initials		SH	SH	SH	SH	SH

Chloride, mg/L	EPA 300.0	Q 56.0	Q 41.8	Q 43.4	Q 50.7	Q 58.2
Reporting Limit, mg/L		1.00	1.00	1.00	1.00	1.00
Dilution Factor		10	10	10	10	10
Date / Time Analyzed		6.26.19 / 18:04	6.26.19 / 18:26	6.26.19 / 18:46	6.26.19 / 19:06	6.26.19 / 19:25
Analyst Initials		JLJ	JLJ	JLJ	JLJ	JLJ

Sulfate, mg/L	EPA 300.0	Q 75.8	Q 29.3	Q 29.6	Q 76.8	Q 72.2
Reporting Limit, mg/L		1.00	1.00	1.00	1.00	1.00
Dilution Factor		10	10	10	10	10
Date / Time Analyzed		6.26.19 / 18:04	6.26.19 / 18:26	6.26.19 / 18:46	6.26.19 / 19:06	6.26.19 / 19:25
Analyst Initials		JLJ	JLJ	JLJ	JLJ	JLJ

Electrical Conductivity, µmhos	SM 2510-B	1,000	480.	450.	1,000	1,000
Reporting Limit µmhos		100.	10.	10.	100.	100.
Dilution Factor		1	1	1	1	1
Date Analyzed		7.5.19 / 08:15	7.5.19 / 08:15	7.5.19 / 08:15	7.5.19 / 08:15	7.5.19 / 08:15
Analyst Initials		BF	BF	BF	BF	BF

ANALYTICAL NOTES, INTERPRETATIONS, METHOD DEVIATIONS OR ENVIRONMENTAL CONDITIONS:

NONE TO REPORT

STATEMENT OF COMPLIANCE/NON-COMPLIANCE:

The above analytical data was derived from submitted samples that have met all established acceptance criteria, unless otherwise qualified, and are compliant with the laboratory's Quality System. The Director of Operations or designee has authorized the release of this report. The results contained herein relate only to the Laboratory Sample ID(s) documented above. This analytical test report may not be reproduced except in full, without the written approval of the laboratory.

Quality Assurance / Quality Control Data associated with results within this report are documented in the attached QA/QC Report.

Please contact 254.829.8001 with any questions or concerns.



Andrew Janek, Technical Director
 Bio Chem Lab, Inc.



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DRINKING WATER QUALITY PARAMETERS**ANALYTICAL BATCH QC****TDS**

SM 2540-C

DATE	SETUP ID	BATCH ID	ANALYST
6.27.19	DS-062719-06	DS-062719-06-01	SH
SAMPLE ID:	RESULT 1	RESULT 2	% DEV
10407-19	622	632	0.8
SPIKE ID:	RESULT 1	RESULT 2	% REC
10408-19	322	796	94.8
		LOQ, %REC	98.1
BLANK, mg/L	ND	LCS, %REC	101.0

CHLORIDE

EPA-300.0

SETUP DATE	SEQUENCE ID	ANALYST	
6.26.19	IC-062619-13	JLJ	
SAMPLE ID	RESULT 1	RESULT 2	% DEV
10411-19	58.2	57.8	0.3
SPIKE ID:	RESULT 1	RESULT 2	% REC
10411-19	58.2	147.5	89.3
IPCS-1 % REC:	90.2	IPCS-2 % REC:	92.1
LCS % REC:	Q2 84.3	LCSD % REC:	Q2 84.3
BLANK, mg/L:	ND	LOQ % REC	97.2

SULFATE

EPA-300.0

SETUP DATE	SEQUENCE ID	ANALYST	
6.26.19	IC-062619-13	JLJ	
SAMPLE ID	RESULT 1	RESULT 2	% DEV
10411-19	72.2	72.0	0.1
SPIKE ID:	RESULT 1	RESULT 2	% REC
10411-19	72.2	163.5	91.3
IPCS-1 % REC:	90.9	IPCS-2 % REC:	91.8
LCS % REC:	Q2 85.2	LCSD % REC:	Q2 84.1
BLANK, mg/L:	ND	LOQ % REC	87.2

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ANALYTICAL BATCH QC**ELECTRICAL CONDUCTIVITY**

SM20-2510-B

SETUP DATE	SETUP ID	ANALYST	
7.5.19	EC-070519-01	BF	
SAMPLE ID	RESULT 1	RESULT 2	% DEV
10410-19	1000	1000	0.0
561721111	1500	1500	0.0
LCS % REC	100.0	LCSD % REC	100.0
BLANK, uhmos ND		LOQ % REC	90.0

QC DATA LEGEND - ACCEPTABLE RANGES**TDS ANALYSIS**

% DEV: PRECISION ACCEPTABLE RANGE 0-10%
 LCS % REC: ACCEPTABLE RECOVERY 80-120%
 MS % REC: ACCEPTABLE RECOVERY 80-120%
 BLANK: < 0.0005 g

ANION ANALYSIS

% DEV: PRECISION ACCEPTABLE RANGE 0-10%
 BLANK: LESS THAN 0.05 mg/L OF TARGET ANION
 LCS % REC/ QCS: ACCEPTABLE RECOVERY 90-110%
 MS % REC: ACCEPTABLE RECOVERY 80-120% (SPIKE)
 IPCS-1 % REC: ACCEPTABLE RECOVERY 90-110% (INSTRUMENT PERFORMANCE CHECK / INITIAL)
 IPCS-2 % REC: ACCEPTABLE RECOVERY 90-110% (INSTRUMENT PERFORMANCE CHECK / FINAL)

ELECTRICAL CONDUCTIVITY

% DEV: PRECISION ACCEPTABLE RANGE 0-10%
 LCS % REC: ACCEPTABLE RECOVERY 80-120%
 MS % REC: ACCEPTABLE RECOVERY 80-120%
 BLANK: < 10.0g

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DRINKING WATER QUALITY PARAMETERS	

BCL PROJECT DATA QUALIFIERS:

- Q** Failed Quality Data. Refer to QA/QC Report of the affected data for specific details.
- Q1** Blank outside desired limits. Data accepted based on passing batch LCS recoveries.
- Q2** LCS recovery outside desired limits. Data accepted on basis of additional narrative if applicable
- Q3** Matrix Spike and/or Matrix Spike Duplicate outside desired limits. Data accepted on basis of passing LCS recoveries.
- Q4** Sample specific duplicate precision outside desired range.
- QM1** Microbiology precision unable to be evaluated due to low background concentration (< 10 CFU / MPN) of target analyte
- QM2** Microbiology precision unable to be evaluated due to high background concentration (> 2420 CFU / MPN) of target analyte
- QM3** Microbiology precision outside desired range.
- B1** Results for CBOD / BOD reported as less than [< 2 mg/L] with no sample dilution depleting method required 2.00 mg/L
- B2** Results for CBOD / BOD reported as an estimate due to no dilution meeting a method stated depletion criteria.
- B3** Result for CBOD / BOD unable to be determined due to excessive oxidant content, high chlorine residual.
- W1** Result is an average of multiple weighing / drying cycles.
- C** Reported result over the laboratory's calibration range
- J5** Reported result less than the laboratory reporting limit but greater than the Limit of Detection.
- ND** Not detected
- V** Additional sample volume would have been required to meet analytical method specifications.
- HT** Sample analysis performed outside method / regulatory prescribed holding time.
- T** Sample received outside method / regulatory prescribed requirements for thermal preservation.
- P** Sample received outside method / regulatory prescribed requirements for pH preservation.
- A** Analysis performed that is currently outside the laboratory's scope of accreditation.
- N** The associated analysis was performed by a network / sub-contract laboratory.
- L** Laboratory Error
- PW** Potable Water
- NPW** Non-Potable Water

ADDITIONAL NOTES:

