

Additional Information

Fresh Water
Sample Analysis



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 16, 2020

BEN STONE

SOS CONSULTING

P.O. BOX 300

COMO, TX 75431

RE: FRESH WATER SAMPLES

Enclosed are the results of analyses for samples received by the laboratory on 01/07/20 8:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

SOS CONSULTING
P.O. BOX 300
COMO TX, 75431

Project: FRESH WATER SAMPLES
Project Number: NOT GIVEN
Project Manager: BEN STONE
Fax To:

Reported:
16-Jan-20 17:27

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
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WATER - WWLWD - 01209	H000036-01	Water	06-Jan-20 15:00	07-Jan-20 08:10
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Fax To:

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16-Jan-20 17:27

WATER - WWLWD - 01209

H000036-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride*	12.0		4.00	mg/L	1	0010606	AC	09-Jan-20	4500-Cl-B	
pH*	8.62		0.100	pH Units	1	0010707	AC	07-Jan-20	150.1	
TDS*	208		5.00	mg/L	1	0010307	AC	08-Jan-20	160.1	

Green Analytical Laboratories

Total Recoverable Metals by ICP (E200.7)

Calcium*	58.6		0.500	mg/L	5	B001090	AES	14-Jan-20	EPA200.7	
Hardness as CaCO3	198		3.31	mg/L	5	[CALC]	AES	14-Jan-20	2340 B	
Magnesium*	12.5		0.500	mg/L	5	B001090	AES	14-Jan-20	EPA200.7	

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Project Manager: BEN STONE
Fax To:

Reported:
16-Jan-20 17:27

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0010307 - Filtration

Blank (0010307-BLK1)

Prepared: 03-Jan-20 Analyzed: 07-Jan-20

TDS ND 5.00 mg/L

LCS (0010307-BS1)

Prepared: 03-Jan-20 Analyzed: 07-Jan-20

TDS 536 mg/L 527 102 80-120

Duplicate (0010307-DUP1)

Source: H000016-01

Prepared: 03-Jan-20 Analyzed: 07-Jan-20

TDS 2650 5.00 mg/L 2480 6.72 20

Batch 0010606 - General Prep - Wet Chem

Blank (0010606-BLK1)

Prepared & Analyzed: 06-Jan-20

Chloride ND 4.00 mg/L

LCS (0010606-BS1)

Prepared & Analyzed: 06-Jan-20

Chloride 100 4.00 mg/L 100 100 80-120

Matrix Spike (0010606-MS1)

Source: H000005-03

Prepared & Analyzed: 06-Jan-20

Chloride 236 4.00 mg/L 100 140 96.0 80-120

Batch 0010707 - General Prep - Wet Chem

LCS (0010707-BS1)

Prepared & Analyzed: 07-Jan-20

pH 7.08 pH Units 7.00 101 90-110

Duplicate (0010707-DUP1)

Source: H000030-01

Prepared & Analyzed: 07-Jan-20

pH 6.85 0.100 pH Units 6.86 0.146 20

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 16-Jan-20 17:27

Total Recoverable Metals by ICP (E200.7) - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B001090 - Total Rec. 200.7/200.8/200.2
Blank (B001090-BLK1)

Prepared: 13-Jan-20 Analyzed: 14-Jan-20

Magnesium	ND	0.100	mg/L							
Calcium	ND	0.100	mg/L							

LCS (B001090-BS1)

Prepared: 13-Jan-20 Analyzed: 14-Jan-20

Magnesium	19.6	0.100	mg/L	20.0		98.1	85-115			
Calcium	3.83	0.100	mg/L	4.00		95.9	85-115			

LCS Dup (B001090-BSD1)

Prepared: 13-Jan-20 Analyzed: 14-Jan-20

Magnesium	19.5	0.100	mg/L	20.0		97.7	85-115	0.433	20	
Calcium	3.81	0.100	mg/L	4.00		95.3	85-115	0.605	20	

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com