# Additional

# Information

Fresh Water Sample Analysis



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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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

Reported:

16-Jan-20 17:27



## **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:

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

Cardinal Laboratories \*=Accredited Analyte

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## Analytical Results For:

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

Project: FRESH WATER SAMPLES

Project Number: NOT GIVEN

Reported: 16-Jan-20 17:27

Project Manager: BEN STONE

Fax To:

# **WATER - WWLWD - 01209**

## H000036-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	ıal Laborat	ories					
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 Ana	lytical Lab	oratories					
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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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

## **Inorganic Compounds - Quality Control**

## **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0010307 - Filtration										
Blank (0010307-BLK1)				Prepared: (	)3-Jan-20 A	nalyzed: 07	7-Jan-20			
TDS	ND	5.00	mg/L							
LCS (0010307-BS1)				Prepared: (	)3-Jan-20 A	nalyzed: 07	7-Jan-20			
TDS	536		mg/L	527		102	80-120			
Duplicate (0010307-DUP1)	Sour	ce: H000016	-01	Prepared: (	)3-Jan-20 A	nalyzed: 07	7-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)	Sour	ce: 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 &	z Analyzed:	07-Jan-20				
pH	7.08		pH Units	7.00		101	90-110			
<b>Duplicate (0010707-DUP1)</b>	Sour	се: Н000030	-01	Prepared &	z Analyzed:	07-Jan-20				
pH	6.85	0.100	pH Units		6.86			0.146	20	

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%REC



## Analytical Results For:

SOS CONSULTING P.O. BOX 300 COMO TX, 75431 Project: FRESH WATER SAMPLES

Project Number: NOT GIVEN

Project Manager: BEN STONE

Spike

Source

Fax To:

Reported: 16-Jan-20 17:27

RPD

## Total Recoverable Metals by ICP (E200.7) - Quality Control

## **Green Analytical Laboratories**

Reporting

Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
2									
			Prepared:	13-Jan-20 A	nalyzed: 14	I-Jan-20			
ND	0.100	mg/L							
ND	0.100	mg/L							
			Prepared:	13-Jan-20 A	nalyzed: 14	I-Jan-20			
19.6	0.100	mg/L	20.0		98.1	85-115			
3.83	0.100	mg/L	4.00		95.9	85-115			
			Prepared:	13-Jan-20 A	nalyzed: 14	I-Jan-20			
19.5	0.100	mg/L	20.0		97.7	85-115	0.433	20	
3.81	0.100	mg/L	4.00		95.3	85-115	0.605	20	
	ND ND 19.6 3.83	ND 0.100 ND 0.100 19.6 0.100 3.83 0.100	ND 0.100 mg/L ND 0.100 mg/L 19.6 0.100 mg/L 3.83 0.100 mg/L 19.5 0.100 mg/L	Prepared: 1  ND 0.100 mg/L  ND 0.100 mg/L  Prepared: 1  19.6 0.100 mg/L 20.0  3.83 0.100 mg/L 4.00  Prepared: 1  19.5 0.100 mg/L 20.0	Prepared: 13-Jan-20 A  ND 0.100 mg/L  ND 0.100 mg/L  Prepared: 13-Jan-20 A  19.6 0.100 mg/L 20.0  3.83 0.100 mg/L 4.00  Prepared: 13-Jan-20 A  19.5 0.100 mg/L 20.0	Prepared: 13-Jan-20 Analyzed: 14- ND 0.100 mg/L ND 0.100 mg/L  Prepared: 13-Jan-20 Analyzed: 14- 19.6 0.100 mg/L 20.0 98.1 3.83 0.100 mg/L 4.00 95.9  Prepared: 13-Jan-20 Analyzed: 14- 19.5 0.100 mg/L 20.0 97.7	Prepared: 13-Jan-20 Analyzed: 14-Jan-20  ND 0.100 mg/L  ND 0.100 mg/L  Prepared: 13-Jan-20 Analyzed: 14-Jan-20  19.6 0.100 mg/L 20.0 98.1 85-115 3.83 0.100 mg/L 4.00 95.9 85-115  Prepared: 13-Jan-20 Analyzed: 14-Jan-20  19.5 0.100 mg/L 20.0 97.7 85-115	Prepared: 13-Jan-20 Analyzed: 14-Jan-20  ND 0.100 mg/L  ND 0.100 mg/L  Prepared: 13-Jan-20 Analyzed: 14-Jan-20  19.6 0.100 mg/L 20.0 98.1 85-115  3.83 0.100 mg/L 4.00 95.9 85-115  Prepared: 13-Jan-20 Analyzed: 14-Jan-20  19.5 0.100 mg/L 20.0 97.7 85-115 0.433	Prepared: 13-Jan-20 Analyzed: 14-Jan-20  ND 0.100 mg/L  ND 0.100 mg/L  Prepared: 13-Jan-20 Analyzed: 14-Jan-20  19.6 0.100 mg/L 20.0 98.1 85-115  3.83 0.100 mg/L 4.00 95.9 85-115  Prepared: 13-Jan-20 Analyzed: 14-Jan-20  19.5 0.100 mg/L 20.0 97.7 85-115 0.433 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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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	SOS Consulting				BILL TO	9	*****			A	ANALYSIS		REQUEST	1		
Project Manager:	Ren			P.O. #:					-1	-			- K	- -	+	1
Address: PO	B6× 360			Company:												
city: Lomo	State: 7x	Zip:	75431	Attn:												
Phone #: 983-488 -	486 - Fax #:			Address:												
Project #:	Project Owner:	7		City:				ia.								
Project Name:	Fresh WATER SAMO	0		State:	Zip:											
Project Location:	E			Phone #:												
Sampler Name:				Fax #:												
FOR LAB USE ONLY			MATRIX	PRESERV		SAMPLING			55							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS	GRØUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL	OTHER:  DATE	TIME	CL	PH	Hardre	705				****************		(2).
/	WATER WWILLOWD-01209		2		1-6-20	15:00	\	1	1	1	$\forall$			1	+	
					!											
PLEASE NOTE: Liability and analyses. All claims includin service. In no event shall Ca	PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive renewly for any client arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims notuding those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal which 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of types, or force of profits control the relations.	y claim aris leemed wai without limi	sing whether based in contract or ived unless made in writing and re itation, business interruptions, los	tort, shall be limit aceived by Cardir	ted to the amount hal within 30 days a	aid by the client for fler completion of the	the ne applicable		-	+	ŀ			-	-	
Relinquished By:	Relinquished By:  Date:  Received By:	Recei	ived By:	based upon any o	of the above stated	Verbal Result:	sult:	Yes		Add	Add'l Phone #	<b>‡</b>				

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C

Yes Yes
No Corrected Temp. °C

6

Thermometer ID #97 Correction Factor + 0.4 °C

CHECKED BY: (Initials)

Turnaround Time:

Standard Rush

Corrected Temp. °C

Relinquished By:

Time: 8/10 Date: 7-20

Received By:

Received By:

of the above stated reasons or otherwise.

Verbal Result: ☐ Yes ☐ No Add'I Phone #:

All Results are emailed. Please provide Email address:

REMARKS: SOS CONSULTING. 45

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Observed Temp. °C 10.5

Time: Date:

Corrected Temp. °C

Sample Condition
Cool Intact

Yes Yes
No No