

Friday, September 10, 2021

Ogris Operating, LLC
Sam Bollinger
21603 Hwy 12
Trinidad, CO 81082
Tel: (719) 680-0808 Fax: (719) 845-0108

Re: Project Name:
Project Number: 019A-A

Oxidor received 1 liquid sample(s). The analysis performed were as follows:

<u>Sample</u>	<u>Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Analysis</u>
21090035-001	019A-A	Liquid	9/1/2021 11:19	Bicarbonate Alkalinity, Calcium, Magnesium, Sodium, Sodium Adsorption Ratio (SAR), Adjusted, Specific Conductance

To the best of my knowledge, all problems/ anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified via associated flags and/ or in the case narrative. The analyses and data met requirements of NELAP except where noted. All non-NELAP methods are identified accordingly and all estimated uncertainties of test results are within method or EPA specifications.

Respectfully submitted,



Charles Brungardt
President

Ogris Operating, LLC
Sam Bollinger

Analytical Report

Project Name:

Customer Sample ID: 019A-A				Matrix: Liquid				
Oxidor Sample ID: 21090035-001				Sample Collected: 9/1/2021 11:19				
Sample Received: 9/2/2021								
Parameter	MQL	PQL	Result	Units	Date Analyzed	Method	Analyst	Flags
General Chemistry								
Alkalinity, Bicarbonate	10	10.0	620	mg/L	09/03/21 11:30	SM-2320-B	B.F.	
SAR, Adjusted			44.0			Calculation		E-5
Conductivity	0.1	0.100	1.40	dS/m	09/03/21 10:30	120.1	B.F.	S-14
Metals								
<i>Digested by method 200.8 on 09/03/21 at 09:02</i>								
Calcium	0.5	0.100	3.70	mg/L	09/03/21 16:29	200.8	K.E.L.	C-1
Magnesium	0.5	0.100	0.474	mg/L	09/03/21 16:29	200.8	K.E.L.	C-1
Sodium	0.5	5.00	364	mg/L	09/03/21 16:37	200.8	K.E.L.	D-1

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Sample Cross Reference

Project Name:

Customer ID:	Lab ID:	Test	Method	QCBatchID:
019A-A	21090035-001	Bicarbonate Alkalinity	SM-2320-B	ALKA_03625_L
		Specific Conductance	120.1	COND_06520_L
		Sodium	200.8	META_04781_L
		Magnesium	200.8	META_04781_L
		Calcium	200.8	META_04781_L

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QC Summary

Project Name:

QC Type	Parameter	Result	Reference Value	Spike Conc	Rec	Rec Limits	RPD	RPD Limits	Flags
QCBatchID ALKA_03625_L									
Blank	Alkalinity, Bicarbonate	ND mg/L							
LCS	Alkalinity, Total	94.0 mg/L		100 mg/L	94%	90-110%			
LCSD	Alkalinity, Total	94.0 mg/L		100 mg/L	94%	90-110%	0.0%	0-20%	
MS	Alkalinity, Total	1960 mg/L	1000 mg/L	1000 mg/L	96%	80-120%			
MSD	Alkalinity, Total	1980 mg/L	1000 mg/L	1000 mg/L	98%	80-120%	1.0%	0-20%	
QCBatchID COND_06520_L									
Blank	Conductivity	ND µmhos/cm							
LCS	Conductivity	505 µmhos/cm		500 µmhos/cm	101%	90-110%			
LCSD	Conductivity	505 µmhos/cm		500 µmhos/cm	101%	90-110%	0.0%	0-25%	
Replicate	Conductivity	2200 µmhos/cm	2200 µmhos/cm				0.0%	0-25%	
QCBatchID META_04781_L									
Blank	Calcium	ND mg/L							
	Magnesium	ND mg/L							
	Sodium	ND mg/L							
LCS	Calcium	9.70 mg/L		10.1 mg/L	96%	85-115%			
	Magnesium	10.1 mg/L		10.1 mg/L	100%	85-115%			
	Sodium	10.0 mg/L		10.1 mg/L	99%	85-115%			
LCSD	Calcium	10.0 mg/L		10.1 mg/L	99%	85-115%	3.1%	0-20%	
	Magnesium	10.4 mg/L		10.1 mg/L	103%	85-115%	2.9%	0-20%	
	Sodium	10.1 mg/L		10.1 mg/L	100%	85-115%	1.0%	0-20%	
MS	Calcium	51.0 mg/L	0.51 mg/L	50.5 mg/L	100%	80-120%			
	Magnesium	51.2 mg/L	0.179 mg/L	50.5 mg/L	101%	80-120%			
	Sodium	99.5 mg/L	51.3 mg/L	50.5 mg/L	95%	80-120%			
MSD	Calcium	51.2 mg/L	0.51 mg/L	50.5 mg/L	100%	80-120%	0.4%	0-20%	
	Magnesium	51.8 mg/L	0.179 mg/L	50.5 mg/L	102%	80-120%	1.2%	0-20%	
	Sodium	99.2 mg/L	51.3 mg/L	50.5 mg/L	95%	80-120%	0.3%	0-20%	

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Case Narrative

Project Name:

C-1	SDL / SQL lowered by means of initial sample aliquot adjustment.
D-1	Elevated reporting limit(s) due to dilution. Dilution resulted from sample matrix interference, high target analyte(s), high non-target analyte(s) or a combination thereof.
E-5	Calculation not available under scope of NELAP accreditation.
S-14	Reported @ 25.0 °C
ppm	Parts per million = mg/Kg or mg/L
ppb	Parts per billion = ug/Kg or ug/L
MQL	Method quantitation limit
SDL	Sample detection limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilutions)
SQL	Sample quantitation limit (reflects any laboratory adjustments made to the sample during analysis such as dry weight or dilution)
ND	Analyte not detected at or above SQL
LCS/LCSD	Laboratory control spike / Laboratory control spike duplicate
MS/MSD	Matrix spike / Matrix spike duplicate
RPD	Relative percent difference
Sub	Analysis performed by subcontract laboratory

Solid samples submitted to the laboratory for analysis by SW-846 Method 8260 should be collected by SW-846 Method 5035. Those samples in which concentrations are less than or equal to 200 ug/kg should be collected in accordance with SW-846 Method 5035, Section 6.2.1. For samples with higher concentrations (> 200 ug/kg), collect samples by SW-846 Method 5035, Section 6.2.2 or 6.2.3. Sample results may not accurately reflect volatile concentrations if collection is not performed according to the referenced methodologies.

Solid samples submitted to the laboratory for analysis by TNRCC Method 1005 should be collected in accordance to the methodology. Those samples in which concentrations of C6 to C12 are known to be absent, or fall under the Petroleum Storage Tank (PST) rule, may be collected in bulk sample jars in accordance with TNRCC Method 1005, Revision 3 clarifications. For samples with concentrations of C6 to C12, or where knowledge of the site does not exist, collect samples by TNRCC Method 1005, Section 6.1. Sample results may not accurately reflect TPH concentrations if collection is not performed according to the referenced methodologies.

Solid sample results reported on a dry weight basis for all applicable analysis, unless otherwise noted. Dry weight calculations based upon % solids obtained as outlined in EPA method 5035 section 7.5.

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Oxidior Laboratories, LLC certifies to the best of its knowledge that all results contained in this report are consistent with the National Environmental Laboratory Accreditation Program, except where otherwise noted.

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Sample Preservation Verification

Project Name:

Receipt temp: **2.1 °C on Ice**

Receipt method: **Fed Ex**

Custody seal intact: **Yes**

All samples / labels received intact: **Yes**

Customer Sample ID: **019A-A**

Collected By: **Javier Martinez**

Oxidor Sample ID: **21090035-001**

Collector Affiliation:

Collected: **09/01/21 11:19**

Matrix: **Liquid**

<u>Bottle Type</u>	<u>Count</u>	<u>Collection Method</u>	<u>Parts / Interval</u>	<u>Indicated / Observed</u>	
				<u>Preservation</u>	<u>pH</u>
250 mL Plastic	1	Grab		HNO3	<2
250 mL Plastic	1	Grab		Temp	-

Sample conditions at time of receipt at laboratory verified in part or in whole by:

L.U.



Documentation

PROJECT DESCRIPTION:

Oxidior Laboratories, LLC

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Plano, TX 75074
Phone: (972) 424-6422 - Email: hyoungblood@oxidior.com

Ogris Operating, LLC
21603 State Hwy 12
Trinidad, CO 81082
Contact: Sam Bollinger
Phone #: 719-680-0808
Permit #: CO0048062

SAR Chain of Custody

Sample Description	Sample Date	Time MST	(Comp/ G/rab)	Sodium	Magnesium	Calcium	Bicarb (Alkalinity)	EC (Conductivity)	SAR, Adj	# Containers	Preservatives
019A-A	9/1/2021	10:19AM	G	X	X	X	X	X	X	2	HNO3/Ice
043G-G	9/1/2021	11:14AM	G	X	X	X	X	X	X	2	HNO3/Ice
033G-G	9/1/2021	11:29AM	G	X	X	X	X	X	X	2	HNO3/Ice
036G-G	9/1/2021	11:37AM	G	X	X	X	X	X	X	2	HNO3/Ice

2-109 003.5-001

Collected by: (Signature)		Date: 9-1-2021	Time: 4:30pm
Relinquished by: (Signature)		Date: 9-2-21	Time: 0900
Received by: (Signature)		Date:	Time:
Method of Shipment:	Fed-ex		
Additional Comments:	September SAR OX-104 2.1°C		