



Division of Environmental Testing

2115 N Scranton St Suite 3040A

Aurora, CO 80045

800-440-5184

November 07, 2024

155 E. Boardwalk Dr Ste 400
Fort Collins, CO 80525
303-915-9074
ryan@petersonenergyoperating.com

Project Manager : Ryan Dornbos
Project Name : State 44-36 Battery
Project Number : N/A

Attached are the analytical results for State 44-36 Battery N/A received by Elevation Diagnostics, Division of Environmental Testing on October 30, 2024. This is associated with Elevation's number AA13704 .

The results were analyzed under the guidelines of various methods. These methods are identified in the report as follows: "SW" is referring to the EPA's SW-846 Compendium; "EPA" is referring to 40 CFR part 136; "HACH" is referring to a method which was validated by HACH®; "SM" is referring to a revision of the Standard Methods For the Examination of Water and Wastewater; and "ASTM" is referring to the standard test method set forth by ASTM International.

The analytical results in this report apply specifically to the samples listed in the attached Chain of Custody. This report may only be duplicated in full.

Any deviations to sample integrity, method specifications, or Elevation Diagnostics's standard operating procedures are documented in the report below.

Please contact us for any questions or comments concerning the content of this report.

Thank you,

Elevation Diagnostics, Division of Environmental Testing







Chain of Custody Form


Client: BLUE CHIP OIL INC.
 Address: _____
 City/State/ZIP: _____
 Phone: 303 915 9074
 Project Contact: RYAN@PEOPERATING.COM
BLUECHIP.OIL@MSA.COM

Elevation Diagnostics

2115 North Scranton Street Suite 3040A Aurora, CO 80045
 800.440.5184

Project Name: STATE 44-36 BATTERY
 Project Location: _____
 Collector Name: RYAN DOONBOS

Sample ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Notes
					HCl	HNO ₃	None	Other	Water	Soil	Other	PH, SAR	EC, BORON	ARSENIC				
1	PW E 4'	10/30/24	1045	3			X			X		X	X	X				
2	PW S 4'	10/30/24	1045	3			X			X		X						
3	PW FLOOR	10/30/24	1045	3			X			X				X				
4	PW N 4'	10/30/24	1045	2										X				
5	PW W 4'	10/30/24	1045	2										X				
6	BACKGROUND 2	10/30/24	1045	2										X				
7																		
8																		
9																		
10																		

Relinquished By: <u>RYAN DOONBOS</u>	Relinquished By: <u>Dylan Schmechel</u>	Relinquished By: _____	Scan to Deliver Samples 
Date/Time: <u>10/30/24 1550</u>	Date/Time: <u>10/30/24 1550</u>	Date/Time: _____	
Lab Use Only Observed Temperature Upon Receipt: <u>9.9°C</u> Corrected Temperature Upon Receipt: <u>11.2°C</u> Thermometer #: <u>EDXEG238</u> Correction Factor: <u>+1.3°C</u>	Samples Intact: <u>Yes</u> <u>No</u> pH Checked: <u>Yes</u> <u>No</u> pH Adjusted: <u>Yes</u> <u>No</u> Name/Lot Number of Adjustment: _____	2624-16-31-004	

EFOR-008.002

**Division of Environmental Testing**

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FINAL RESULTS REPORT**Report Date :** 11/7/2024**Report Time :** 8:07**Project Manager:** Ryan Dornbos**Project Name:** State 44-36 Battery**Project Number:** N/A

Sample ID	Customer ID	Collected	Dilution	Result	Units	MDL	Method Ref.
Analyte Name		Analysis Start					Recovery
AA13704-1	PW E 4'	Collected : 10/30/2024	10:45				
SAR - Calcium		11/03/2024	17:03	10.00	6.76	mEq/L	EPA 6020B
SAR - Magnesium		11/03/2024	17:03	10.00	5.21	mEq/L	EPA 6020B
SAR - Sodium		11/03/2024	17:03	10.00	4.39	mEq/L	EPA 6020B
SAR - Sodium Adsorption Ratio		11/03/2024	17:03	10.00	1.80	No Unit	EPA 6020B
Soil Conductivity		11/01/2024	16:52		1.5720	mmhos/cm	0.0005 USDA 60
AA13704-2	PW E 4'	Collected : 10/30/2024	10:45				
Hot Water Soluble Boron		11/03/2024	19:25		0.17	mg/kg	0.050 Boron Hot Water Extraction
pH, Soils Temperature		10/31/2024	11:04		19.6	°C	
pH, Soils		10/31/2024	11:04		7.98	SU	0.01 EPA 9045D
AA13704-3	PW E 4'	Collected : 10/30/2024	10:45				
Total Metals, Soils - Arsenic		11/06/2024	08:24	10.00	6.05	mg/kg	0.025 EPA 6020B
AA13705-1	PW S 4'	Collected : 10/30/2024	10:45				
SAR - Calcium		11/05/2024	15:33	10.00	4.88	mEq/L	EPA 6020B
SAR - Magnesium		11/05/2024	15:33	10.00	3.22	mEq/L	EPA 6020B
SAR - Sodium		11/05/2024	15:33	10.00	4.54	mEq/L	EPA 6020B
SAR - Sodium Adsorption Ratio		11/05/2024	15:33	10.00	2.26	No Unit	EPA 6020B
AA13705-2	PW S 4'	Collected : 10/30/2024	10:45				
pH, Soils Temperature		10/31/2024	11:04		19.4	°C	
pH, Soils		10/31/2024	11:04		8.05	SU	0.01 EPA 9045D
AA13706-1	PW Floor	Collected : 10/30/2024	10:45				
Total Metals, Soils - Arsenic		11/05/2024	08:24	10.00	4.83	mg/kg	0.025 EPA 6020B
AA13707-1	PW N 4'	Collected : 10/30/2024	10:45				
Total Metals, Soils - Arsenic		11/05/2024	08:24	10.00	5.40	mg/kg	0.025 EPA 6020B
AA13708-1	PW W 4'	Collected : 10/30/2024	10:45				
Total Metals, Soils - Arsenic		11/05/2024	08:24	10.00	6.19	mg/kg	0.025 EPA 6020B
AA13709-1	Background 2	Collected : 10/30/2024	10:45				
Total Metals, Soils - Arsenic		11/05/2024	08:24	10.00	6.25	mg/kg	0.025 EPA 6020B



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Project Name: State 44-36 Battery

Project Number: N/A

QC Report

QC	Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
BORON-5524										
DUP	AA13690	0.80	0.050	mg/kg					2.5316	-15 - 15
MB	AA13746	0.02		mg/kg						
LCS	AA13747	1.03		mg/kg	1.00		103	80 - 120		
LCS	AA13748	9.35		mg/kg	9.00		104	80 - 120		
ECSOIL_MMHOS-5522										
DUP	AA13704	1.605		mmhos/cm					2.0774	
LCS	AA13744	9.42		mmhos/cm	10.00		94.2			
LCS	AA13745	9.51		mmhos/cm	10.00		95.1			
PH_S-5505										
DUP	AA13643	8.27	0.01	S.U.					<%MDL%	-5 - 5
LCS	AA13722	6.88	0.01	S.U.	6.86		100	95 - 105		
LCS	AA13723	6.82	0.01	S.U.	6.86		99.4	95 - 105		



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QC Report

QC	Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
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METALS S-5562

AA13704

Dup	Arsenic	5.96	0.025	mg/kg		6.05			1.50	0 - 15
Matrix Spike	Arsenic	23.52		mg/kg	20	6.05	87.4			

AA13825

MB	Arsenic	0.00		mg/kg						
MB	Barium	0.00		mg/kg						
MB	Cadmium	0.00		mg/kg						
MB	Copper	0.00		mg/kg						
MB	Lead	0.00		mg/kg						
MB	Nickel	0.00		mg/kg						
MB	Selenium	0.00		mg/kg						
MB	Silver	0.00		mg/kg						
MB	Zinc	-0.01		mg/kg						

AA13827

LCS	Arsenic	0.08		mg/kg			80.0	80 - 120		
LCS	Barium	0.09		mg/kg			100	80 - 120		
LCS	Cadmium	0.10		mg/kg			111	80 - 120		
LCS	Copper	0.10		mg/kg			111	80 - 120		
LCS	Lead	0.10		mg/kg			111	80 - 120		
LCS	Nickel	0.09		mg/kg			100	80 - 120		
LCS	Selenium	0.10		mg/kg			111	80 - 120		
LCS	Silver	0.08		mg/kg			88.9	80 - 120		
LCS	Zinc	0.10		mg/kg			111	80 - 120		

AA13828

LCS	Arsenic	0.08		mg/kg			80.0	80 - 120		
LCS	Barium	0.09		mg/kg			100	80 - 120		
LCS	Cadmium	0.10		mg/kg			111	80 - 120		
LCS	Copper	0.10		mg/kg			111	80 - 120		
LCS	Lead	0.09		mg/kg			100	80 - 120		
LCS	Nickel	0.09		mg/kg			100	80 - 120		
LCS	Selenium	0.10		mg/kg			111	80 - 120		
LCS	Silver	0.08		mg/kg			88.9	80 - 120		
LCS	Zinc	0.10		mg/kg			111	80 - 120		

SAR-5550

AA13704

Dup	Calcium	6.92		mEq/L	6.92	6.76			2.34	
Dup	Magnesium	5.23		mEq/L	5.23	5.21			0.383	
Dup	Sodium	4.44		mEq/L	4.44	4.39			1.13	
Dup	Sodium Adsorption Ratio	1.80		mEq/L	1.80	1.80			<%MDL%	

AA13792

MB	Calcium	0.85		mEq/L						
MB	Magnesium	0.76		mEq/L						
MB	Sodium	0.94		mEq/L						
MB	Sodium Adsorption Ratio	0.18								

AA13793



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QC	Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%Rec	% REC Limits	RPD	RPD Limit
LCS	Calcium	11.74		ppm			117			
LCS	Magnesium	11.27		ppm			113			
LCS	Sodium	11.88		ppm			119			
LCS	Sodium Adsorption Ratio	0.59		ppm			109			

AA13794

LCS	Calcium	442.99		ppm			88.6			
LCS	Magnesium	446.76		ppm			89.4			
LCS	Sodium	455.06		ppm			91.0			
LCS	Sodium Adsorption Ratio	3.65		ppm			96.6			

SAR-5593

AA13705

Dup	Calcium	4.69		mEq/L	4.69	4.88			3.97	
Dup	Magnesium	3.09		mEq/L	3.09	3.22			4.12	
Dup	Sodium	4.27		mEq/L	4.27	4.54			6.13	
Dup	Sodium Adsorption Ratio	2.16		mEq/L	2.16	2.26			4.52	

AA13869

MB	Calcium	0.00		mEq/L						
MB	Magnesium	0.00		mEq/L						
MB	Sodium	0.00		mEq/L						
MB	Sodium Adsorption Ratio	0.04								

AA13870

LCS	Calcium	9.89		ppm			98.9			
LCS	Magnesium	10.02		ppm			100			
LCS	Sodium	9.55		ppm			95.5			
LCS	Sodium Adsorption Ratio	0.51		ppm			98.1			

AA13871

LCS	Calcium	469.46		ppm			93.9			
LCS	Magnesium	484.03		ppm			96.8			
LCS	Sodium	493.68		ppm			98.7			
LCS	Sodium Adsorption Ratio	3.82		ppm			103			