



February 23, 2023

Blue Chip Oil, Inc

Ryan Dornbos

155 E Boardwalk, Suite 400

Fort Collins CO 80525

Project Name - Shannon Roberts

Project Number - [none]

Attached are your analytical results for Shannon Roberts received by Origins Laboratory, Inc. February 17, 2023. This project is associated with Origins project number Y302349-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Blue Chip Oil, Inc

155 E Boardwalk, Suite 400

Fort Collins CO 80525

Ryan Dornbos

Project Number: [none]

Project: Shannon Roberts

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Shannon Roberts Background	Y302349-01	Soil	February 17, 2023 9:00	02/17/2023 09:30

Origins Laboratory, Inc.



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Ryan Dornbos  
Project Number: [none]  
Project: Shannon Roberts

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302349

ORIGINS LABORATORY, INC

Client: BLUE CHIP OIL

Project Manager: RYAN DORNBO

Address: \_\_\_\_\_

Project Name: SHANNON ROBERTS

Telephone Number: 303 915 9174

Project Number: \_\_\_\_\_

Email Address: RYAN.DORNBO@ORIGINSLAB.COM

Samples Collected By: RYAN DORNBO

Sample ID Description: SHANNON ROBERTS BOARDWALK

Date Sampled: 2/17/23

Time Sampled: 0900

# of Containers: 2

Preservative: Unpreserved

Matrix: Soil

Analysis: PH GC

Sample Instructions: \_\_\_\_\_

Sample ID	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis	Sample Instructions
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

Relinquished By: RYAN DORNBO

Date: 2/17/2023

Time: 0900

Received By: [Signature]

Date: 2/17/23

Time: 0930

Turnaround Time: Standard

Temp Received: 1.5

Date Results Needed: \_\_\_\_\_

Origins Laboratory, Inc.

*J. Bynon*

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Ryan Dornbos  
Project Number: [none]  
Project: Shannon Roberts

Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: 1302349

Client: Blue Chip Oil

Client Project ID: Shannon Roberts

Checklist Completed by: TSH/DE

Shipped Via: TP

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/17/23

Airbill #: none

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_

Cooler Number/Temperature: 1115 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C

Thermometer ID: TQSH

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 2/17/23

Origins Laboratory, Inc.

[Signature]

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Ryan Dornbos  
Project Number: [none]  
Project: Shannon Roberts

## Shannon Roberts Background

2/17/2023 9:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y302349-01 (Soil)

### Boron (DTPA Sorbitol)

Boron	1.24	0.0989	mg/L	1	B3B2006	KAP	02/20/2023	02/21/2023
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### Metals by Saturated Paste by EPA 6010

Calcium	1.72	0.499	meq/L	10	[CALC]	KAP	02/20/2023	02/21/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	0.924	0.435	"	"	"	KAP	"	"

### pH in Soil by 9045D

pH	8.26		pH Units	1	B3B2008	HJD	02/20/2023	02/21/2023
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### SAR by 20B Saturated Paste

SAR	0.859		SAR	1	B3B2004	KAP	02/20/2023	02/21/2023
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.298	0.00500	mmhos/cm	1	B3B2008	HJD	02/20/2023	02/21/2023
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Project: Shannon Roberts

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch B3B2004 - Saturated Paste Metals

#### Blank (B3B2004-BLK1)

Prepared: 02/20/2023 Analyzed: 02/21/2023

SAR	0.00		SAR
Calcium PPM	ND	10.0	mg/L
Magnesium PPM	ND	10.0	"
Sodium PPM	ND	10.0	"

#### Duplicate (B3B2004-DUP1)

Source: Y302341-02

Prepared: 02/20/2023 Analyzed: 02/21/2023

SAR	0.00		SAR	15.0	200	200
Calcium PPM	478	10.0	mg/L	486	1.57	50
Magnesium PPM	258	10.0	"	247	4.30	50
Sodium PPM	1730	10.0	"	1630	5.87	50

### Batch B3B2006 - DTPA Sorbitol Preparation

#### Blank (B3B2006-BLK1)

Prepared: 02/20/2023 Analyzed: 02/21/2023

Boron	ND	0.100	mg/L
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#### Duplicate (B3B2006-DUP1)

Source: Y302347-06

Prepared: 02/20/2023 Analyzed: 02/21/2023

Boron	ND	0.0996	mg/L	ND	50
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**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3B2008 - Saturated Paste pH/EC</b>										
<b>Blank (B3B2008-BLK1)</b>					Prepared: 02/20/2023 Analyzed: 02/21/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3B2008-DUP1)</b>					<b>Source: Y302341-02</b> Prepared: 02/20/2023 Analyzed: 02/21/2023					
Specific Conductance (EC)	9.49	0.00500	mmhos/cm		8.47			11.4	25	
pH	7.94		pH Units		7.94			0.00	25	

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### Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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