



April 05, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - State #16-13

Project Number - [none]

Attached are your analytical results for Noble - State #16-13 received by Origins Laboratory, Inc. March 24, 2023. This project is associated with Origins project number Y303653-01.

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



Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - State #16-13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@3	Y303653-01	Soil	March 10, 2023 8:40	03/24/2023 08:50

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ORIGINS LABORATORY, INC

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - State #16-13

Origins Laboratory F-012207-01-R1
Sample Receipt Checklist Effective Date: 01/09/12

Origins Work Order: 4303053 Client: Eagle Environ
Client Project ID: STATE #16-13
Checklist Completed by: ISA Shipped Via: HD
Date/Time Completed: 3/24/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A
Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
Cooler Number/Temperature: 14 °C _____ °C _____ °C (Describe)
Thermometer ID: TD04

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For vials in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ (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 ₃ , HCL, H ₂ SO ₄) (pH > 10 for samples preserved with NaAsO ₂ /NaOH, ZnAc/NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) NO Date/Time Reviewed 3/27/23

Origins Laboratory, Inc.
Bynon

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - State #16-13

Background-01@3'
3/10/2023 8:40:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y303653-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.20	0.0880	mg/kg	10	B3C2420	CNG	03/24/2023	03/28/2023	
Barium	27.3	8.80	"	"	"	CNG	"	"	
Cadmium	ND	0.0880	"	"	"	CNG	"	"	
Copper	ND	8.80	"	"	"	CNG	"	"	
Lead	ND	8.80	"	"	"	CNG	"	"	
Nickel	ND	8.80	"	"	"	CNG	"	"	
Selenium	ND	0.0880	"	"	"	CNG	"	"	
Silver	ND	0.0880	"	"	"	CNG	"	"	
Zinc	ND	88.0	"	"	"	CNG	"	"	

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State #16-13

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

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

Batch B3C2420 - EPA 3050B

Prepared: 03/24/2023 Analyzed: 03/28/2023

Blank (B3C2420-BLK1)

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3C2420-BS1)

Prepared: 03/24/2023 Analyzed: 03/28/2023

Arsenic	0.0460	0.000100	mg/kg	0.0500		92.1	80-120			
Barium	4.92	0.0100	"	5.00		98.4	80-120			
Cadmium	0.0505	0.000100	"	0.0500		101	80-120			
Copper	0.476	0.0100	"	0.500		95.2	80-120			
Lead	0.0524	0.0100	"	0.0500		105	80-120			
Nickel	0.0503	0.0100	"	0.0500		101	80-120			
Selenium	0.0495	0.000100	"	0.0500		98.9	80-120			
Silver	0.0522	0.000100	"	0.0500		104	80-120			
Zinc	0.465	0.100	"	0.500		93.0	80-120			

Matrix Spike (B3C2420-MS1)

Source: Y303566-01

Prepared: 03/24/2023 Analyzed: 03/28/2023

Arsenic	10.1	0.0912	mg/kg	4.56	3.11	153	75-125			QM-07
Barium	549	9.12	"	456	73.8	104	75-125			
Cadmium	4.71	0.0912	"	4.56	0.0681	102	75-125			
Copper	47.6	9.12	"	45.6	4.66	94.2	75-125			
Lead	15.5	9.12	"	4.56	5.96	208	75-125			QM-07

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State #16-13

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

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

Batch B3C2420 - EPA 3050B

Matrix Spike (B3C2420-MS1)

Source: Y303566-01

Prepared: 03/24/2023 Analyzed: 03/28/2023

Nickel	11.4	9.12	mg/kg	4.56	6.35	112	75-125			
Selenium	4.46	0.0912	"	4.56	0.0989	95.7	75-125			
Silver	4.49	0.0912	"	4.56	0.0218	97.9	75-125			
Zinc	74.7	91.2	"	45.6	26.9	105	75-125			

Matrix Spike Dup (B3C2420-MSD1)

Source: Y303566-01

Prepared: 03/24/2023 Analyzed: 03/28/2023

Arsenic	6.60	0.0851	mg/kg	4.25	3.11	82.0	75-125	41.9	20	QR-DUP
Barium	486	8.51	"	425	73.8	96.9	75-125	12.1	20	
Cadmium	4.24	0.0851	"	4.25	0.0681	98.1	75-125	10.5	20	
Copper	42.1	8.51	"	42.5	4.66	88.0	75-125	12.2	20	
Lead	9.66	8.51	"	4.25	5.96	87.0	75-125	46.2	20	QR-DUP
Nickel	9.12	8.51	"	4.25	6.35	65.2	75-125	22.6	20	QM-07, QR-DUP
Selenium	4.29	0.0851	"	4.25	0.0989	98.5	75-125	3.89	20	
Silver	4.14	0.0851	"	4.25	0.0218	96.8	75-125	7.99	20	
Zinc	64.4	85.1	"	42.5	26.9	88.2	75-125	14.9	20	

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon For Noelle Doyle Mathis, President

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - State #16-13

Notes and Definitions

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.