



June 05, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Guttersen State CC 20-03 Project Number - [none]

Attached are your analytical results for Noble - Guttersen State CC 20-03 received by Origins Laboratory, Inc. May 30, 2023. This project is associated with Origins project number Y305765-01.

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 - Guttersen State CC 20-03

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@2	Y305765-01	Soil	May 19, 2023 9:05	05/30/2023 16:11

Origins Laboratory, Inc.

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ORIGINS

LABORATORY, INC

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

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

Sample Receipt Checklist

Origins Work Order: 9305765 Client: Eagle

Client Project ID: Gutterson State CC #22

Checklist Completed by: EHS Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 5/30/23 Airbill #: NA

Matrix(s) Received: (Check all that apply) Soil/Solid Water Other: _____


Cooler Number/Temperature: 1A5 °C / _____ °C / _____ °C (Describe)

Thermometer ID: 1004

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 volatiles 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) ⁽²⁾ for samples preserved with HNO3, HCL, H2SO4 / (pH > 10 for samples preserved with NaAsO2+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 in the additional comments (above) and the case narrative.

Reviewed by: [Signature] Date/Time Reviewed: 5/31/23

Origins Laboratory, Inc.


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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Guttersen State CC 20-03

Background-01@2'
5/19/2023 9:05:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305765-01 (Soil)

pH in Soil by 9045D

pH	8.12		pH Units	1	B3F0112	HJD	06/01/2023	06/02/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.38	0.0864	mg/kg	10	B3E3032	EDM	05/30/2023	06/01/2023	
Barium	42.6	8.64	"	"	"	EDM	"	"	
Cadmium	ND	0.0864	"	"	"	EDM	"	"	
Copper	ND	8.64	"	"	"	EDM	"	"	
Lead	ND	8.64	"	"	"	EDM	"	"	
Nickel	ND	8.64	"	"	"	EDM	"	"	
Selenium	0.109	0.0864	"	"	"	EDM	"	"	
Silver	ND	0.0864	"	"	"	EDM	"	"	
Zinc	ND	86.4	"	"	"	EDM	"	"	

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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
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Batch B3E3032 - EPA 3050B

Prepared: 05/30/2023 Analyzed: 06/01/2023

Blank (B3E3032-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 (B3E3032-BS1)

Prepared: 05/30/2023 Analyzed: 06/01/2023

Arsenic	0.0421	0.000100	mg/kg	0.0500		84.2	80-120			
Barium	4.75	0.0100	"	5.00		95.0	80-120			
Cadmium	0.0504	0.000100	"	0.0500		101	80-120			
Copper	0.474	0.0100	"	0.500		94.9	80-120			
Lead	0.0520	0.0100	"	0.0500		104	80-120			
Nickel	0.0454	0.0100	"	0.0500		90.8	80-120			
Selenium	0.0444	0.000100	"	0.0500		88.9	80-120			
Silver	0.0497	0.000100	"	0.0500		99.5	80-120			
Zinc	0.435	0.100	"	0.500		86.9	80-120			

Matrix Spike (B3E3032-MS1)

Source: Y305528-04

Prepared: 05/30/2023 Analyzed: 06/01/2023

Arsenic	5.74	0.0922	mg/kg	4.61	2.04	80.3	75-125			
Barium	472	9.22	"	461	45.5	92.6	75-125			
Cadmium	4.84	0.0922	"	4.61	0.0885	103	75-125			
Copper	48.6	9.22	"	46.1	5.09	94.5	75-125			
Lead	21.3	9.22	"	4.61	41.7	NR	75-125			QM-07

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Jordan A. Bynon For Noelle Doyle Mathis, President



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Guttersen State CC 20-03

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
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Batch B3E3032 - EPA 3050B

Matrix Spike (B3E3032-MS1)

Source: Y305528-04

Prepared: 05/30/2023 Analyzed: 06/01/2023

Nickel	7.05	9.22	mg/kg	4.61	3.43	78.6	75-125			
Selenium	4.13	0.0922	"	4.61	0.0699	88.0	75-125			
Silver	4.15	0.0922	"	4.61	0.0221	89.6	75-125			
Zinc	55.7	92.2	"	46.1	17.9	81.9	75-125			

Matrix Spike Dup (B3E3032-MSD1)

Source: Y305528-04

Prepared: 05/30/2023 Analyzed: 06/01/2023

Arsenic	6.48	0.0879	mg/kg	4.39	2.04	101	75-125	12.0	20	
Barium	530	8.79	"	439	45.5	110	75-125	11.5	20	
Cadmium	4.90	0.0879	"	4.39	0.0885	109	75-125	1.11	20	
Copper	49.4	8.79	"	43.9	5.09	101	75-125	1.52	20	
Lead	124	8.79	"	4.39	41.7	NR	75-125	142	20	QM-07, QR-DUP
Nickel	8.47	8.79	"	4.39	3.43	115	75-125	18.3	20	
Selenium	3.99	0.0879	"	4.39	0.0699	89.3	75-125	3.32	20	
Silver	4.17	0.0879	"	4.39	0.0221	94.5	75-125	0.535	20	
Zinc	62.1	87.9	"	43.9	17.9	100	75-125	10.9	20	

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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
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Batch B3F0112 - Saturated Paste pH/EC

Duplicate (B3F0112-DUP1)

Source: Y305735-01

Prepared: 06/01/2023 Analyzed: 06/02/2023

pH	8.17	pH Units	8.24	0.853	25
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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.

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