



December 13, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Huntsman G #13-10

Project Number - [none]

Attached are your analytical results for Noble - Huntsman G #13-10 received by Origins Laboratory, Inc. November 30, 2022. This project is associated with Origins project number Y211666-01.

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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Huntsman G #13-10

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BACKGROUND-01@2	Y211666-01	Soil	November 16, 2022 10:24	11/30/2022 17:25

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

ORIGINS LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Huntsman G #13-10

ORIGINS
LABORATORY, INC

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page of

Client: Eagle Env Consulting
Address: 8000 W 44th Ave
Wheat Ridge CO 80033
Telephone Number: 303-933-0179
Email Address: m.c.eckert@eagle-environmental.com

Project Manager: Martin Eckert III
Project Name: Huntsman G #13-10
Project Number: [none]
Samples Collected by: CA

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis	Sample Instructions
Buckhorn-0102	11/16/22	1024	1	Unpreserved	Soil	Lead, Cad, PCBs	MDS-Method 1
				HCl			
				HNO ₃			
				Other			
				Groundwater			
				Other			
				Air Contamb			
				Other			
				Lead, Cad, PCBs			

Relinquished By: [Signature]
Relinquished By: [Signature]

Date: 11/30/22
Date: 11/30/22

Time: 1715
Time: 1715

Received By: [Signature]
Received By: [Signature]

Date: 11/30/22
Date: 11/30/22

Time: 1715
Time: 1715

Turnaround Time: 24 Hr
48 Hr
72 Hr

Date Results Needed: [Signature]

Temp Received: v.10

Origins Laboratory, Inc.
[Signature]

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Huntsman G #13-10

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

Sample Receipt Checklist


Origins Work Order: 4211066 Client: Eagle
 Checklist Completed by: CHS Client Project ID: Huntsman G #13-10
 Date/time completed: 1/13/22 Shipped Via: HD
 (US, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 14.6 °C / _____ °C / _____ °C (Describe) _____ °C
 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 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 ⁽²⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽³⁾ ?	<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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 (Project Manager) ME Date/Time Reviewed 12-1-22

Origins Laboratory, Inc.


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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Huntsman G #13-10

BACKGROUND-01@2'
11/16/2022 10:24:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211666-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.43	0.0920	mg/kg	10	B2L0515	CIH	12/05/2022	12/09/2022	
Barium	52.5	9.20	"	"	"	CIH	"	"	
Cadmium	0.120	0.0920	"	"	"	CIH	"	"	
Copper	ND	9.20	"	"	"	CIH	"	"	U
Lead	ND	9.20	"	"	"	CIH	"	"	U
Nickel	ND	9.20	"	"	"	CIH	"	"	U
Selenium	0.184	0.0920	"	"	"	CIH	"	"	
Silver	ND	0.0920	"	"	"	CIH	"	"	U
Zinc	ND	92.0	"	"	"	CIH	"	"	U

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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 B2L0515 - EPA 3050B

Prepared: 12/05/2022 Analyzed: 12/09/2022

Blank (B2L0515-BLK1)

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

LCS (B2L0515-BS1)

Prepared: 12/05/2022 Analyzed: 12/09/2022

Arsenic	0.0487	0.000100	mg/kg	0.0500		97.4	80-120			
Barium	4.93	0.0100	"	5.00		98.6	80-120			
Cadmium	0.0531	0.000100	"	0.0500		106	80-120			
Copper	0.531	0.0100	"	0.500		106	80-120			
Lead	0.0526	0.0100	"	0.0500		105	80-120			
Nickel	0.0535	0.0100	"	0.0500		107	80-120			
Selenium	0.0466	0.000100	"	0.0500		93.2	80-120			
Silver	0.0557	0.000100	"	0.0500		111	80-120			
Zinc	0.499	0.100	"	0.500		99.8	80-120			

Matrix Spike (B2L0515-MS1)

Source: Y211669-01

Prepared: 12/05/2022 Analyzed: 12/09/2022

Arsenic	8.74	0.0974	mg/kg	4.87	4.44	88.2	75-125			
Barium	577	9.74	"	487	118	94.3	75-125			
Cadmium	5.43	0.0974	"	4.87	0.351	104	75-125			
Copper	65.3	9.74	"	48.7	17.7	97.8	75-125			
Lead	29.3	9.74	"	4.87	20.3	185	75-125			QM-07

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Jordan A. Bynon, Project Manager



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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 B2L0515 - EPA 3050B

Matrix Spike (B2L0515-MS1)

Source: Y211669-01

Prepared: 12/05/2022 Analyzed: 12/09/2022

Nickel	17.9	9.74	mg/kg	4.87	14.4	71.4	75-125			QM-07
Selenium	4.62	0.0974	"	4.87	0.438	85.9	75-125			
Silver	5.28	0.0974	"	4.87	0.0666	107	75-125			
Zinc	112	97.4	"	48.7	64.3	98.8	75-125			

Matrix Spike Dup (B2L0515-MSD1)

Source: Y211669-01

Prepared: 12/05/2022 Analyzed: 12/09/2022

Arsenic	8.55	0.0901	mg/kg	4.50	4.44	91.1	75-125	2.21	20	
Barium	561	9.01	"	450	118	98.4	75-125	2.78	20	
Cadmium	5.05	0.0901	"	4.50	0.351	104	75-125	7.23	20	
Copper	62.0	9.01	"	45.0	17.7	98.3	75-125	5.27	20	
Lead	26.3	9.01	"	4.50	20.3	133	75-125	10.9	20	QM-07
Nickel	18.2	9.01	"	4.50	14.4	83.6	75-125	1.61	20	
Selenium	4.48	0.0901	"	4.50	0.438	89.8	75-125	3.04	20	
Silver	4.91	0.0901	"	4.50	0.0666	108	75-125	7.16	20	
Zinc	111	90.1	"	45.0	64.3	104	75-125	1.05	20	

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Notes and Definitions

- U Sample is Non-Detect.
 - 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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