



January 24, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Shable USX AB#11-16P Project Number - [none]

Attached are your analytical results for Noble - Shable USX AB#11-16P received by Origins Laboratory, Inc. January 12, 2024. This project is associated with Origins project number Y401326-01.

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



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

Andrew Newberry
Project Number: [none]
Project: Noble - Shable USX AB#11-16P

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@2	Y401326-01	Soil	November 30, 2023 11:15	01/12/2024 14:34

Origins Laboratory, Inc.

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Shable USX AB#11-16P

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

Sample Receipt Checklist


Origins Work Order: 440320 Client: Eagle
 Client Project ID: Shable USX AB #11-16P
 Checklist Completed by: JST/VEHS Shipped Via: HD
 Date/time completed: 1/12/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 115 °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 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 analysis 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) [Signature]

Date/Time Reviewed 1/15/24

Origins Laboratory, Inc.


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Eagle Environmental Consulting, LLC
8000 W 44th Ave
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Andrew Newberry
Project Number: [none]
Project: Noble - Shable USX AB#11-16P

Background-01@2'
11/30/2023 11:15:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y401326-01 (Soil)

pH in Soil by 9045D

pH	8.27		pH Units	1	B4A1614	EAL	01/16/2024	01/17/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.71	0.0836	mg/kg	10	B4A1241	JAH	01/12/2024	01/16/2024	
Selenium	0.110	0.0836	"	"	"	JAH	"	01/17/2024	

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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 B4A1241 - EPA 3050B

Prepared: 01/12/2024 Analyzed: 01/16/2024

Blank (B4A1241-BLK1)

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							
Copper	ND	1.00	"							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							
Silver	ND	0.0100	"							
Zinc	ND	1.00	"							

LCS (B4A1241-BS1)

Prepared: 01/12/2024 Analyzed: 01/16/2024

Arsenic	5.00	0.0100	mg/kg	5.00		100	80-120			
Barium	488	1.00	"	500		97.6	80-120			
Cadmium	5.17	0.0100	"	5.00		103	80-120			
Copper	45.5	1.00	"	50.0		91.1	80-120			
Lead	5.09	0.100	"	5.00		102	80-120			
Nickel	4.62	0.100	"	5.00		92.4	80-120			
Selenium	5.29	0.0100	"	5.00		106	80-120			
Silver	5.14	0.0100	"	5.00		103	80-120			
Zinc	51.1	1.00	"	50.0		102	80-120			

Matrix Spike (B4A1241-MS1)

Source: Y401323-01

Prepared: 01/12/2024 Analyzed: 01/16/2024

Arsenic	6.75	0.0980	mg/kg	4.90	1.47	108	75-125			
Barium	584	9.80	"	490	50.0	109	75-125			
Cadmium	5.59	0.0980	"	4.90	0.0485	113	75-125			
Copper	58.5	9.80	"	49.0	4.38	111	75-125			
Lead	9.11	0.980	"	4.90	3.59	113	75-125			

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Jordan A. Bynon, Project Manager



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Andrew Newberry
 Project Number: [none]
 Project: Noble - Shable USX AB#11-16P

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 B4A1241 - EPA 3050B

Matrix Spike (B4A1241-MS1)

Source: Y401323-01

Prepared: 01/12/2024 Analyzed: 01/16/2024

Nickel	9.17	0.980	mg/kg	4.90	3.53	115	75-125			
Selenium	5.24	0.0980	"	4.90	ND	107	75-125			
Silver	5.52	0.0980	"	4.90	0.0190	112	75-125			
Zinc	69.1	9.80	"	49.0	16.1	108	75-125			

Matrix Spike Dup (B4A1241-MSD1)

Source: Y401323-01

Prepared: 01/12/2024 Analyzed: 01/16/2024

Arsenic	5.69	0.0925	mg/kg	4.62	1.47	91.4	75-125	16.9	20	
Barium	491	9.25	"	462	50.0	95.5	75-125	17.2	20	
Cadmium	4.76	0.0925	"	4.62	0.0485	102	75-125	16.0	20	
Copper	49.7	9.25	"	46.2	4.38	98.1	75-125	16.2	20	
Lead	7.75	0.925	"	4.62	3.59	90.0	75-125	16.1	20	
Nickel	7.91	0.925	"	4.62	3.53	94.7	75-125	14.8	20	
Selenium	4.89	0.0925	"	4.62	ND	106	75-125	6.89	20	
Silver	4.63	0.0925	"	4.62	0.0190	99.6	75-125	17.7	20	
Zinc	59.1	9.25	"	46.2	16.1	93.0	75-125	15.6	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 B4A1614 - Saturated Paste pH/EC

Duplicate (B4A1614-DUP1)

Source: Y401302-01

Prepared: 01/16/2024 Analyzed: 01/17/2024

pH	8.04	pH Units	8.00	0.499	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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