



March 26, 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. February 27, 2024. This project is associated with Origins project number Y402689-01.

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.

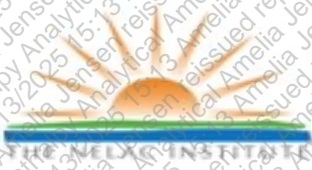
The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

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

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01@7.5-10'	Y402689-01	Soil	February 26, 2024 11:22	02/27/2024 16:45
MW-02@7.5-10'	Y402689-02	Soil	February 26, 2024 12:00	02/27/2024 16:45
MW-03@7.5-10'	Y402689-03	Soil	February 26, 2024 12:25	02/27/2024 16:45
MW-04@7.5-10'	Y402689-04	Soil	February 26, 2024 12:53	02/27/2024 16:45
MW-05@7.5-10'	Y402689-05	Soil	February 26, 2024 13:15	02/27/2024 16:45

Origins Laboratory, Inc.



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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

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

Sample Receipt Checklist

Origins Work Order: MU020891 Client: Eagle
 Client Project ID: Sample USX AB #11-16P
 Checklist Completed by: JTB/ELMS Shipped Via: TUP
 Date/time completed: 2/29/24 (URS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply) Soil/Solid Water Other: _____ (Describe)
 Cooler Number/Temperature: 1, 2 °C / _____ °C / _____ °C / _____ °C
 Thermometer ID: T004

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"/>			
Is there ice present (document if blue ice is used)?	<input checked="" 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"/>		
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"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTS due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" 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"/>			
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of certification instrument used in comments) X (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<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) 

Date/Time Reviewed 2/29/24

Origins Laboratory, Inc.



Jordan A. Bynon, Project Manager

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 8000 W 44th Ave
 Wheat Ridge CO 80033

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

MW-01@7.5-10'
2/26/2024 11:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402689-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.432		0.0995	mg/L	1	B4C0505	03/05/2024	03/06/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B2936	02/29/2024	03/08/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 88.3% 50-150 " " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B2842	02/28/2024	02/29/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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Andrew Newberry
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 Project: Noble - Shable USX AB#11-16P

MW-01@7.5-10'
 2/26/2024 11:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402689-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			B4B28 42	02/28/2024	02/29/2024	
Surrogate: Toluene-d8	97.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.667		0.499	meq/L	10	[CALC]	03/05/2024	03/06/2024	
Magnesium	1.46		0.823	"	"	"	"	"	
Sodium	2.65		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4C0101	03/01/2024	03/01/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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 2/26/2024 11:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402689-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B4C0101	03/01/2024	03/01/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	103 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.46			pH Units	1	B4C0516	03/05/2024	03/06/2024	
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SAR by 20B Saturated Paste

SAR	2.57		0.0100	SAR	1	B4C0510	03/05/2024	03/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.456		0.00500	mmhos/cm	1	B4C0516	03/05/2024	03/06/2024	
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Table 915 metals by EPA 6020B

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

MW-01@7.5-10'
2/26/2024 11:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402689-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.13		0.265	mg/kg	10	B4B2825	02/28/2024	03/11/2024	
Barium	1180		9.15	"	"	"	"	"	
Cadmium	1.74		0.0915	"	"	"	"	"	
Copper	34.9		9.15	"	"	"	"	"	
Lead	20.1		0.915	"	"	"	"	"	
Nickel	79.8		0.915	"	"	"	"	"	
Selenium	0.422		0.238	"	"	"	"	"	
Silver	0.106		0.0915	"	"	"	"	"	
Zinc	140		33.9	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737860	02/26/2024	03/14/2024	
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 8000 W 44th Ave
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Andrew Newberry
 Project Number: [none]
 Project: Noble - Shable USX AB#11-16P

MW-02@7.5-10'
2/26/2024 12:00:00PM

Origins Laboratory, Inc.
Y402689-02 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	0.195		0.0997	mg/L	1	B4C0505	03/05/2024	03/06/2024	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B2936	02/29/2024	03/08/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	85.3 %		50-150	"	"	"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B2842	02/28/2024	02/29/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Origins Laboratory, Inc.


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 Wheat Ridge CO 80033

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

MW-02@7.5-10'
2/26/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402689-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			B4B28 42	02/28/2024	02/29/2024	
Surrogate: Toluene-d8	96.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.601		0.499	meq/L	10	[CALC]	03/05/2024	03/06/2024	
Magnesium	1.31		0.823	"	"	"	"	"	
Sodium	2.95		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4C0101	03/01/2024	03/01/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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 8000 W 44th Ave
 Wheat Ridge CO 80033

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

MW-02@7.5-10'
2/26/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402689-02 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B4C0101	03/01/2024	03/01/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	99.9 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.42			pH Units	1	B4C0516	03/05/2024	03/06/2024	
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SAR by 20B Saturated Paste

SAR	3.02		0.0100	SAR	1	B4C0510	03/05/2024	03/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.490		0.00500	mmhos/cm	1	B4C0516	03/05/2024	03/06/2024	
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Table 915 metals by EPA 6020B

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

MW-02@7.5-10'
2/26/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402689-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.74		0.283	mg/kg	10	B4B2825	02/28/2024	03/11/2024	
Barium	38.3		9.76	"	"	"	"	"	"
Cadmium	0.144		0.0976	"	"	"	"	"	"
Copper	12.3		9.76	"	"	"	"	"	"
Lead	10.0		0.976	"	"	"	"	"	"
Nickel	13.7		0.976	"	"	"	"	"	"
Selenium	ND		0.254	"	"	"	"	"	"
Silver	ND		0.0976	"	"	"	"	"	"
Zinc	54.2		36.1	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L739532	02/26/2024	03/20/2024	
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 8000 W 44th Ave
 Wheat Ridge CO 80033

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

MW-03@7.5-10'
2/26/2024 12:25:00PM

Origins Laboratory, Inc.
Y402689-03 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Boron (DTPA Sorbitol)

Boron	0.395		0.100	mg/L	1	B4C0505	03/05/2024	03/06/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B2936	02/29/2024	03/08/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 85.6% 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B2842	02/28/2024	02/29/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

MW-03@7.5-10'
 2/26/2024 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402689-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			B4B28 42	02/28/2024	02/29/2024	
Surrogate: Toluene-d8	96.1 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.794		0.499	meq/L	10	[CALC]	03/05/2024	03/06/2024	
Magnesium	1.59		0.823	"	"	"	"	"	
Sodium	4.04		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4C0101	03/01/2024	03/01/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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

MW-03@7.5-10'
2/26/2024 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402689-03 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B4C0101	03/01/2024	03/01/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	99.1 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.42			pH Units	1	B4C0516	03/05/2024	03/06/2024	
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SAR by 20B Saturated Paste

SAR	3.70		0.0100	SAR	1	B4C0510	03/05/2024	03/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.690		0.00500	mmhos/cm	1	B4C0516	03/05/2024	03/06/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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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

MW-03@7.5-10'
2/26/2024 12:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402689-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	7.56		0.260	mg/kg	10	B4B2825	02/28/2024	03/11/2024	
Barium	69.0		8.96	"	"	"	"	"	"
Cadmium	0.146		0.0896	"	"	"	"	"	"
Copper	24.0		8.96	"	"	"	"	"	"
Lead	24.4		0.896	"	"	"	"	"	"
Nickel	15.1		0.896	"	"	"	"	"	"
Selenium	ND		0.233	"	"	"	"	"	"
Silver	ND		0.0896	"	"	"	"	"	"
Zinc	86.6		33.1	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L739532	02/26/2024	03/20/2024	
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Origins Laboratory, Inc.



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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

MW-04@7.5-10'
2/26/2024 12:53:00PM

Origins Laboratory, Inc.
Y402689-04 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Boron (DTPA Sorbitol)									
Boron	0.227		0.0992	mg/L	1	B4C0505	03/05/2024	03/06/2024	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B2936	02/29/2024	03/08/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	86.4 %		50-150	"	"	"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B2842	02/28/2024	02/29/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Origins Laboratory, Inc.


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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

MW-04@7.5-10'
2/26/2024 12:53:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402689-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130			B4B28 42	02/28/2024	02/29/2024	
Surrogate: Toluene-d8	97.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.1 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	03/05/2024	03/06/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.89		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4C0101	03/01/2024	03/01/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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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

MW-04@7.5-10'
 2/26/2024 12:53:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402689-04 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B4C0101	03/01/2024	03/01/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.5 %		60-130			"	"	"	
Surrogate: Pyrene-d10	101 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.15			pH Units	1	B4C0516	03/05/2024	03/06/2024	
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SAR by 20B Saturated Paste

SAR	3.10		0.0100	SAR	1	B4C0510	03/05/2024	03/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.293		0.00500	mmhos/cm	1	B4C0516	03/05/2024	03/06/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

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

MW-04@7.5-10'
 2/26/2024 12:53:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y402689-04 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.73		0.262	mg/kg	10	B4B2825	02/28/2024	03/11/2024	
Barium	34.1		9.05	"	"	"	"	"	"
Cadmium	0.111		0.0905	"	"	"	"	"	"
Copper	ND		9.05	"	"	"	"	"	"
Lead	6.70		0.905	"	"	"	"	"	"
Nickel	6.29		0.905	"	"	"	"	"	"
Selenium	ND		0.235	"	"	"	"	"	"
Silver	ND		0.0905	"	"	"	"	"	"
Zinc	ND		33.5	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L739532	02/26/2024	03/20/2024	
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Origins Laboratory, Inc.

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 8000 W 44th Ave
 Wheat Ridge CO 80033

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

MW-05@7.5-10'
2/26/2024 1:15:00PM

Origins Laboratory, Inc.
Y402689-05 (Soil)

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Boron (DTPA Sorbitol)

Boron	0.338		0.0999	mg/L	1	B4C0505	03/05/2024	03/06/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B2936	02/29/2024	03/08/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 85.9% 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B2842	02/28/2024	02/29/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

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

MW-05@7.5-10'
2/26/2024 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402689-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			B4B28 42	02/28/2024	02/29/2024	
Surrogate: Toluene-d8	97.2 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.20	0.499	meq/L	10	[CALC]		03/05/2024	03/06/2024	
Magnesium	1.76	0.823	"	"	"		"	"	
Sodium	1.06	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C0101		03/01/2024	03/01/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"		"	"	U
Acenaphthene	ND	0.020	"	"	"		"	"	U
Anthracene	ND	0.020	"	"	"		"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"		"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"		"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"		"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"		"	"	U
Chrysene	ND	0.020	"	"	"		"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"		"	"	U

Origins Laboratory, Inc.



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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

MW-05@7.5-10'
2/26/2024 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402689-05 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B4C0101	03/01/2024	03/01/2024	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.1 %		60-130			"	"	"	
Surrogate: Pyrene-d10	96.2 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.32			pH Units	1	B4C0516	03/05/2024	03/06/2024	
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SAR by 20B Saturated Paste

SAR	0.870		0.0100	SAR	1	B4C0510	03/05/2024	03/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.406		0.00500	mmhos/cm	1	B4C0516	03/05/2024	03/06/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

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

MW-05@7.5-10'
2/26/2024 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402689-05 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.84		0.267	mg/kg	10	B4B2825	02/28/2024	03/11/2024	
Barium	159		9.21	"	"	"	"	"	"
Cadmium	0.480		0.0921	"	"	"	"	"	"
Copper	14.7		9.21	"	"	"	"	"	"
Lead	11.7		0.921	"	"	"	"	"	"
Nickel	21.2		0.921	"	"	"	"	"	"
Selenium	ND		0.240	"	"	"	"	"	"
Silver	ND		0.0921	"	"	"	"	"	"
Zinc	51.1		34.1	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L739532	02/26/2024	03/20/2024	
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Origins Laboratory, Inc.


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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

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B4B2842 - EPA 5030 (soil)

Blank (B4B2842-BLK1)

Prepared: 02/28/2024 Analyzed: 02/29/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

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

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B4B2842 - EPA 5030 (soil)

LCS (B4B2842-BS1)

Prepared: 02/28/2024 Analyzed: 02/29/2024

1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Benzene	0.0979	0.00200	"	0.100		97.9	70-130			
Ethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Naphthalene	0.106	0.00380	"	0.100		106	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.104	0.00200	"	0.100		104	70-130			
m,p-Xylene	0.223	0.00400	"	0.200		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

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

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B4B2842 - EPA 5030 (soil)

Matrix Spike (B4B2842-MS1)

Source: Y402686-01

Prepared: 02/28/2024 Analyzed: 02/29/2024

1,2,4-Trimethylbenzene	0.0897	0.00200	mg/kg	0.100	ND	89.7	70-130			
1,3,5-Trimethylbenzene	0.0915	0.00200	"	0.100	ND	91.5	70-130			
Benzene	0.0841	0.00200	"	0.100	ND	84.1	70-130			
Ethylbenzene	0.0939	0.00200	"	0.100	ND	93.9	70-130			
Naphthalene	0.0939	0.00380	"	0.100	ND	93.9	70-130			
Toluene	0.0867	0.00200	"	0.100	ND	86.7	70-130			
o-Xylene	0.0880	0.00200	"	0.100	ND	88.0	70-130			
m,p-Xylene	0.187	0.00400	"	0.200	ND	93.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

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

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B4B2842 - EPA 5030 (soil)

Matrix Spike Dup (B4B2842-MSD1)

Source: Y402686-01

Prepared: 02/28/2024 Analyzed: 02/29/2024

1,2,4-Trimethylbenzene	0.0987	0.00200	mg/kg	0.100	ND	98.7	70-130	9.49	20	
1,3,5-Trimethylbenzene	0.0993	0.00200	"	0.100	ND	99.3	70-130	8.11	20	
Benzene	0.0957	0.00200	"	0.100	ND	95.7	70-130	12.9	20	
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	8.13	20	
Naphthalene	0.104	0.00380	"	0.100	ND	104	70-130	10.1	20	
Toluene	0.0961	0.00200	"	0.100	ND	96.1	70-130	10.4	20	
o-Xylene	0.0958	0.00200	"	0.100	ND	95.8	70-130	8.57	20	
m,p-Xylene	0.203	0.00400	"	0.200	ND	101	70-130	7.95	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Jordan A. Bynon, Project Manager



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

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

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B4B2936 - EPA 3550B

Blank (B4B2936-BLK1)

Prepared: 02/29/2024 Analyzed: 03/04/2024

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	18		"	24.9		71.5	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

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

Extractable Petroleum Hydrocarbons by 8015D - 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 B4B2936 - EPA 3550B

LCS (B4B2936-BS1)

Prepared: 02/29/2024 Analyzed: 03/04/2024

Diesel (C10-C28)	925	50.0	mg/kg	1000		92.5	70-130			
Residual Range Organics (C28-C40)	992	200	"	1000		99.2	70-130			
Surrogate: o-Terphenyl	42		"	49.8		83.9	50-150			

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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

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

Extractable Petroleum Hydrocarbons by 8015D - 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 B4B2936 - EPA 3550B

Matrix Spike (B4B2936-MS1)

Source: Y402686-01

Prepared: 02/29/2024 Analyzed: 03/04/2024

Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	70-130			
Surrogate: o-Terphenyl	39		"	49.8		78.0	50-150			

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Jordan A. Bynon, Project Manager



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

Extractable Petroleum Hydrocarbons by 8015D - 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 B4B2936 - EPA 3550B

Matrix Spike Dup (B4B2936-MSD1)

Source: Y402686-01

Prepared: 02/29/2024 Analyzed: 03/04/2024

Diesel (C10-C28)	863	50.0	mg/kg	1000	ND	86.3	70-130	16.1	35	
Residual Range Organics (C28-C40)	973	200	"	1000	ND	97.3	70-130	10.9	35	
Surrogate: o-Terphenyl	29		"	49.8		58.7	50-150			

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Jordan A. Bynon, Project Manager



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

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

Extractable Petroleum Hydrocarbons by 8015D - 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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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 B4B2825 - EPA 3050B

Blank (B4B2825-BLK1)

Prepared: 02/28/2024 Analyzed: 03/11/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B4B2825-BS1)

Prepared: 02/28/2024 Analyzed: 03/19/2024

Arsenic	5.01	0.290	mg/kg	5.00		100	80-120			
Barium	547	10.0	"	500		109	80-120			
Cadmium	5.82	0.100	"	5.00		116	80-120			
Copper	56.2	10.0	"	50.0		112	80-120			
Lead	5.27	1.00	"	5.00		105	80-120			
Nickel	5.43	1.00	"	5.00		109	80-120			
Selenium	10.3	0.260	"	9.50		109	80-120			
Silver	5.40	0.100	"	5.00		108	80-120			
Zinc	53.7	37.0	"	50.0		107	80-120			

Matrix Spike (B4B2825-MS1)

Source: Y402680-01

Prepared: 02/28/2024 Analyzed: 03/15/2024

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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 B4B2825 - EPA 3050B

Matrix Spike (B4B2825-MS1)

Source: Y402680-01

Prepared: 02/28/2024 Analyzed: 03/15/2024

Arsenic	8.56	0.279	mg/kg	4.81	4.55	83.5	75-125			
Barium	607	9.61	"	481	89.4	108	75-125			
Cadmium	5.04	0.0961	"	4.81	0.322	98.1	75-125			
Copper	52.3	9.61	"	48.1	8.85	90.4	75-125			
Lead	15.8	0.961	"	4.81	9.58	130	75-125			QM-07
Nickel	10.0	0.961	"	4.81	5.73	89.6	75-125			
Selenium	9.77	0.250	"	9.13	0.405	103	75-125			
Silver	5.24	0.0961	"	4.81	0.252	104	75-125			
Zinc	80.6	35.6	"	48.1	32.4	100	75-125			

Matrix Spike Dup (B4B2825-MSD1)

Source: Y402680-01

Prepared: 02/28/2024 Analyzed: 03/15/2024

Arsenic	8.98	0.243	mg/kg	4.18	4.55	106	75-125	4.80	20	
Barium	560	8.37	"	418	89.4	112	75-125	8.14	20	
Cadmium	4.38	0.0837	"	4.18	0.322	97.1	75-125	13.9	20	
Copper	46.0	8.37	"	41.8	8.85	88.7	75-125	12.9	20	
Lead	16.8	0.837	"	4.18	9.58	174	75-125	6.25	20	QM-07
Nickel	8.99	0.837	"	4.18	5.73	78.1	75-125	10.9	20	
Selenium	8.48	0.218	"	7.95	0.405	102	75-125	14.1	20	
Silver	4.49	0.0837	"	4.18	0.252	101	75-125	15.4	20	
Zinc	71.0	31.0	"	41.8	32.4	92.3	75-125	12.7	20	

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Jordan A. Bynon, Project Manager



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

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4C0101 - EPA 3580

Prepared: 03/01/2024 Analyzed: 03/01/2024

Blank (B4C0101-BLK1)

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		93.3	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130			

Prepared: 03/01/2024 Analyzed: 03/04/2024

LCS (B4C0101-BS1)

1-Methylnaphthalene	0.179	0.002	mg/kg	0.200		89.4	70-130			
2-Methylnaphthalene	0.178	0.002	"	0.200		89.1	70-130			
Acenaphthene	0.179	0.020	"	0.200		89.3	70-130			
Anthracene	0.176	0.020	"	0.200		88.2	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

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

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4C0101 - EPA 3580

LCS (B4C0101-BS1)

Prepared: 03/01/2024 Analyzed: 03/04/2024

Benzo (a) anthracene	0.195	0.005	mg/kg	0.200		97.5	70-130			
Benzo (a) pyrene	0.192	0.020	"	0.200		96.2	70-130			
Benzo (b) fluoranthene	0.179	0.020	"	0.200		89.3	70-130			
Benzo (g,h,i) perylene	0.184	0.020	"	0.200		91.9	70-130			
Benzo (k) fluoranthene	0.175	0.020	"	0.200		87.5	70-130			
Chrysene	0.187	0.020	"	0.200		93.4	70-130			
Dibenz (a,h) anthracene	0.189	0.020	"	0.200		94.5	70-130			
Fluoranthene	0.169	0.020	"	0.200		84.7	70-130			
Fluorene	0.183	0.020	"	0.200		91.4	70-130			
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200		94.9	70-130			
Naphthalene	0.186	0.002	"	0.200		92.9	70-130			
Phenanthrene	0.167	0.020	"	0.200		83.7	70-130			
Pyrene	0.165	0.020	"	0.200		82.4	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		94.1	60-130			
Surrogate: Pyrene-d10	190		"	200		93.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

Matrix Spike (B4C0101-MS1)

Source: Y402683-01

Prepared: 03/01/2024 Analyzed: 03/01/2024

1-Methylnaphthalene	0.185	0.002	mg/kg	0.200	ND	92.5	70-130			
2-Methylnaphthalene	0.182	0.002	"	0.200	ND	91.1	70-130			
Acenaphthene	0.183	0.020	"	0.200	ND	91.6	70-130			
Anthracene	0.174	0.020	"	0.200	ND	86.8	70-130			
Benzo (a) anthracene	0.202	0.005	"	0.200	ND	101	70-130			
Benzo (a) pyrene	0.197	0.020	"	0.200	ND	98.4	70-130			
Benzo (b) fluoranthene	0.195	0.020	"	0.200	0.0003	97.4	70-130			
Benzo (g,h,i) perylene	0.185	0.020	"	0.200	ND	92.3	70-130			

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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

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4C0101 - EPA 3580

Matrix Spike (B4C0101-MS1)

Source: Y402683-01

Prepared: 03/01/2024 Analyzed: 03/01/2024

Benzo (k) fluoranthene	0.203	0.020	mg/kg	0.200	ND	101	70-130			
Chrysene	0.190	0.020	"	0.200	ND	94.8	70-130			
Dibenz (a,h) anthracene	0.188	0.020	"	0.200	ND	94.0	70-130			
Fluoranthene	0.174	0.020	"	0.200	ND	87.0	70-130			
Fluorene	0.186	0.020	"	0.200	ND	92.8	70-130			
Indeno (1,2,3-cd) pyrene	0.189	0.020	"	0.200	ND	94.4	70-130			
Naphthalene	0.188	0.002	"	0.200	ND	93.9	70-130			
Phenanthrene	0.169	0.020	"	0.200	ND	84.4	70-130			
Pyrene	0.182	0.020	"	0.200	ND	90.9	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		95.4	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130			

Matrix Spike Dup (B4C0101-MSD1)

Source: Y402683-01

Prepared: 03/01/2024 Analyzed: 03/01/2024

1-Methylnaphthalene	0.186	0.002	mg/kg	0.200	ND	93.2	70-130	0.820	20	
2-Methylnaphthalene	0.185	0.002	"	0.200	ND	92.3	70-130	1.25	20	
Acenaphthene	0.184	0.020	"	0.200	ND	92.0	70-130	0.491	20	
Anthracene	0.183	0.020	"	0.200	ND	91.3	70-130	5.09	20	
Benzo (a) anthracene	0.191	0.005	"	0.200	ND	95.4	70-130	5.70	20	
Benzo (a) pyrene	0.201	0.020	"	0.200	ND	100	70-130	1.86	20	
Benzo (b) fluoranthene	0.190	0.020	"	0.200	0.0003	95.0	70-130	2.52	20	
Benzo (g,h,i) perylene	0.182	0.020	"	0.200	ND	91.0	70-130	1.35	20	
Benzo (k) fluoranthene	0.201	0.020	"	0.200	ND	101	70-130	0.835	20	
Chrysene	0.192	0.020	"	0.200	ND	95.8	70-130	1.05	20	
Dibenz (a,h) anthracene	0.184	0.020	"	0.200	ND	92.0	70-130	2.08	20	
Fluoranthene	0.177	0.020	"	0.200	ND	88.4	70-130	1.64	20	

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

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

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4C0101 - EPA 3580

Matrix Spike Dup (B4C0101-MSD1)

Source: Y402683-01

Prepared: 03/01/2024 Analyzed: 03/01/2024

Fluorene	0.186	0.020	mg/kg	0.200	ND	93.2	70-130	0.428	20	
Indeno (1,2,3-cd) pyrene	0.185	0.020	"	0.200	ND	92.7	70-130	1.81	20	
Naphthalene	0.190	0.002	"	0.200	ND	95.2	70-130	1.34	20	
Phenanthrene	0.174	0.020	"	0.200	ND	86.8	70-130	2.85	20	
Pyrene	0.189	0.020	"	0.200	ND	94.3	70-130	3.72	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		94.9	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		108	60-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

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

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 B4C0505 - DTPA Sorbitol Preparation

Blank (B4C0505-BLK1)

Prepared: 03/05/2024 Analyzed: 03/06/2024

Boron ND 0.100 mg/L

Duplicate (B4C0505-DUP1)

Source: Y402687-01

Prepared: 03/05/2024 Analyzed: 03/06/2024

Boron 1.14 0.101 mg/L 1.16 1.48 50

Batch B4C0510 - Saturated Paste Metals

Blank (B4C0510-BLK1)

Prepared: 03/05/2024 Analyzed: 03/06/2024

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B4C0510-DUP1)

Source: Y402687-01

Prepared: 03/05/2024 Analyzed: 03/06/2024

SAR ND 0.0100 SAR 6.29 200

Calcium PPM 608 10.0 mg/L 576 5.47 50

Magnesium PPM 78.4 10.0 " 76.4 2.62 50

Sodium PPM 620 10.0 " 605 2.42 50

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

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

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 B4C0516 - Saturated Paste pH/EC

Blank (B4C0516-BLK1)

Prepared: 03/05/2024 Analyzed: 03/06/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4C0516-DUP1)

Source: Y402687-01

Prepared: 03/05/2024 Analyzed: 03/06/2024

pH 8.05 pH Units 7.83 2.77 25

Specific Conductance (EC) 5.09 0.00500 mmhos/cm 4.95 2.82 25

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

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

**Total Metals by 7196A - Quality Control
 Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L739532 -

DUP (L 99056-DUP)

Source: 99056

Prepared: Analyzed: 03/20/2024

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-	0	20	
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MS (L 99056-MS)

Source: 99056

Prepared: Analyzed: 03/20/2024

Chromium, Hexavalent	30	2.5	mg/Kg	39.3	< 0.244	76	75-125		
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LCS (LCS)

Prepared: Analyzed: 03/20/2024

Chromium, Hexavalent	6.26	0.5	mg/Kg	8		78	75-125		
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LRB (LRB)

Prepared: Analyzed: 03/20/2024

Chromium, Hexavalent	ND	0.5	mg/Kg			-			
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Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

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

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L737860 -

DUP (L 99009-DUP)

Source: 99009

Prepared: Analyzed: 03/14/2024

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-	0	20	
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MS (L 99009-MS)

Source: 99009

Prepared: Analyzed: 03/14/2024

Chromium, Hexavalent	32	2.5	mg/Kg	39.2	< 0.244	82	75-125		
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LCS (LCS)

Prepared: Analyzed: 03/14/2024

Chromium, Hexavalent	6.07	0.5	mg/Kg	8		76	75-125		
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LRB (LRB)

Prepared: Analyzed: 03/14/2024

Chromium, Hexavalent	ND	0.5	mg/Kg			-			
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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

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 on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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