



## **FIGURES**

**Figure 1: Topographic Site Location Map**

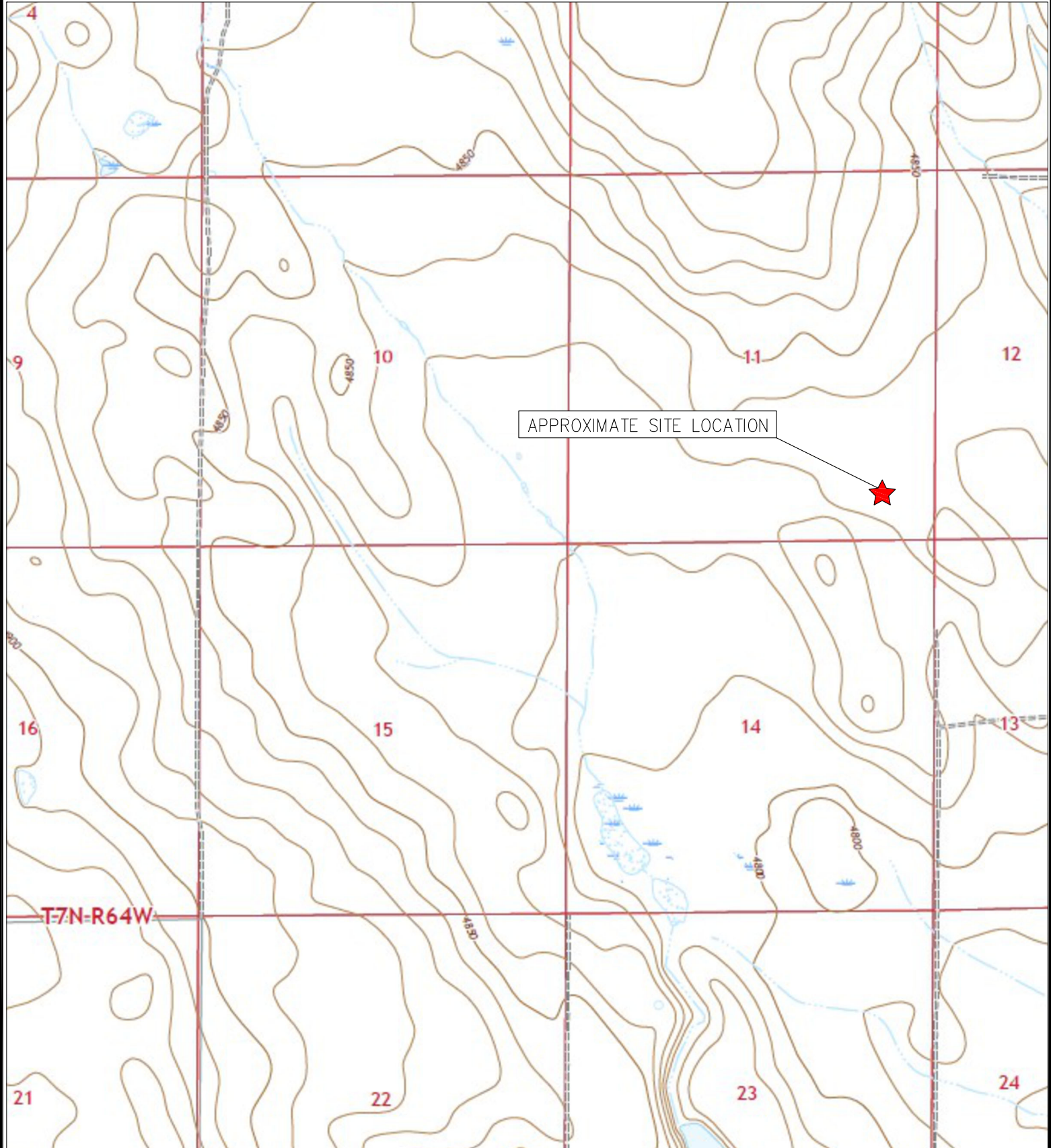
**Figure 2: Aerial Site Location Map**

**Figure 3: Sample Location Map**

**Figure 4: Soil Analytical Map**

**Figure 5: Polycyclic Aromatic Hydrocarbons Map**

**Figure 6: Metals in Soil Map**



TOPOGRAPHIC SITE LOCATION MAP  
 SHABLE USX AB #11-16P  
 CLOSURE ASSESSMENT  
 40.582380 / -104.510025  
 SE¼ SE¼ SEC.11 T7N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-31051  
 REMEDIATION # 30818



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, LLC


8000 W 44th Ave, Wheat Ridge, CO 80033  
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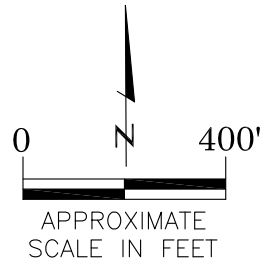
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,  
 GALETON, CO QUADRANGLE 2022

FIGURE NO. 1



LEGEND

 FORMER SHABLE USX AB #11-16P WELLHEAD (PLUGGED AND ABANDONED)



AERIAL SITE LOCATION MAP  
SHABLE USX AB #11-16P  
CLOSURE ASSESSMENT  
40.582380 / -104.510025  
SE $\frac{1}{4}$  SE $\frac{1}{4}$  SEC.11 T7N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-31051  
REMEDATION # 30818

FIGURE NO.  
2

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LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR



SAMPLE LOCATION MAP  
SHABLE USX AB #11-16P  
CLOSURE ASSESSMENT  
40.582380 / -104.510025  
SE¼ SE¼ SEC.11 T7N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-31051  
REMEDIAION # 30818

FIGURE NO.  
3

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**LEGEND**

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
N = NAPHTHALENE (mg/kg)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)
R = TPH-RRO (mg/kg)
1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)
Brn= BORON (mg/L)
EC = SPECIFIC CONDUCTANCE (mmhos/cm)
SAR= SODIUM ADSORPTION RATIO
pH = pH (PH UNITS)

mg/kg = MILLIGRAMS PER KILOGRAM

mg/L = MILLIGRAMS PER LITER

mmhos/cm = MILLIHOS PER CENTIMETER

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS  
 TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS  
 TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

NOTES:  
 VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

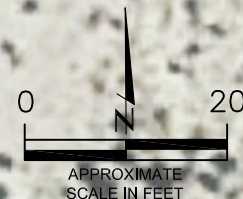
SOIL ANALYTICAL MAP  
 SHABLE USX AB #11-16P  
 CLOSURE ASSESSMENT  
 40.582380 / -104.510025  
 SE¼ SE¼ SEC.11 T7N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-31051  
 REMEDIATION # 30818

FIGURE NO.  
4

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WH-FS-01@6'  
 11/30/23  
 6'  
 B = <0.00200  
 T = <0.00200  
 E = <0.00200  
 X = <0.00200  
 N = <0.00380  
 G = 0.636  
 D = 73.2  
 R = <100  
 1,2,4-TMB = <0.00200  
 1,3,5-TMB = 0.00616  
 Brn= 0.192  
 EC = 0.340  
 SAR= 2.59  
 pH = 8.30

WH-SS-01@5'  
 11/30/23  
 5'  
 B = <0.00200  
 T = <0.00200  
 E = <0.00200  
 X = <0.00200  
 N = <0.00380  
 G = 0.290  
 D = 45.3  
 R = 109  
 1,2,4-TMB = <0.00200  
 1,3,5-TMB = 0.00474  
 Brn= 0.130  
 EC = 0.228  
 SAR= 1.05  
 pH = 8.29

WH-SS-02@5'  
 11/30/23  
 5'  
 B = <0.00200  
 T = <0.00200  
 E = <0.00200  
 X = <0.00200  
 N = <0.00380  
 G = <0.200  
 D = <25.0  
 R = <100  
 1,2,4-TMB = <0.00200  
 1,3,5-TMB = <0.00200  
 Brn= 0.194  
 EC = 0.215  
 SAR= 1.08  
 pH = 8.27

WH-SS-04@5'  
 11/30/23  
 5'  
 B = <0.00200  
 T = <0.00200  
 E = <0.00200  
 X = <0.00200  
 N = <0.00380  
 G = <0.200  
 D = <25.0  
 R = <100  
 1,2,4-TMB = <0.00200  
 1,3,5-TMB = <0.00200  
 Brn= 0.147  
 EC = 0.298  
 SAR= 1.37  
 pH = **8.35**

WH-SS-03@5'  
 11/30/23  
 5'  
 B = <0.00200  
 T = <0.00200  
 E = <0.00200  
 X = <0.00200  
 N = <0.00380  
 G = <0.200  
 D = 30.7  
 R = 101  
 1,2,4-TMB = <0.00200  
 1,3,5-TMB = <0.00200  
 Brn= 0.142  
 EC = 0.256  
 SAR= 1.32  
 pH = 8.28



**LEGEND**

- — WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

**PARAMETERS**

SAMPLE LOCATION  
 DATE SAMPLE COLLECTED  
 APPROXIMATE DEPTH  
 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

NOTES:  
 VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS

VALUES PRESENTED WITH AN ASTERISK (\*) ARE EQUAL TO OR EXCEED ECMC TABLE 915-1 GROUNDWATER SOIL SCREENING LEVELS, ONLY.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP

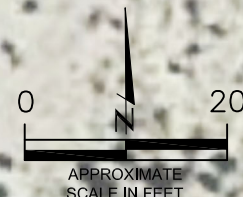
SHABLE USX AB #11-16P  
 CLOSURE ASSESSMENT  
 40.582380 / -104.510025  
 SE¼ SE¼ SEC.11 T7N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-31051  
 REMEDIATION # 30818

FIGURE NO.  
5

DRAWN BY:  
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 Ph: 303-433-0479 • F: 303-325-5449



WH-FS-01@6'  
 11/30/23  
 6'

1-Methylnaphthalene = **0.041\***  
 2-Methylnaphthalene = 0.003  
 Acenaphthene = <0.020  
 Anthracene = <0.020  
 Benzo(a)anthracene = <0.005  
 Benzo(a)pyrene = <0.020  
 Benzo(b)fluoranthene = <0.020  
 Benzo(k)fluoranthene = <0.020  
 Chrysene = <0.020  
 Dibenzo(a,h)anthracene = <0.020  
 Fluoranthene = <0.020  
 Fluorene = <0.020  
 Indeno(1,2,3-CD)pyrene = <0.020  
 Pyrene = <0.020

WH-SS-01@5'  
 11/30/23  
 5'

1-Methylnaphthalene = 0.005  
 2-Methylnaphthalene = <0.002  
 Acenaphthene = <0.020  
 Anthracene = <0.020  
 Benzo(a)anthracene = <0.005  
 Benzo(a)pyrene = <0.020  
 Benzo(b)fluoranthene = <0.020  
 Benzo(k)fluoranthene = <0.020  
 Chrysene = <0.020  
 Dibenzo(a,h)anthracene = <0.020  
 Fluoranthene = <0.020  
 Fluorene = <0.020  
 Indeno(1,2,3-CD)pyrene = <0.020  
 Pyrene = <0.020

WH-SS-02@5'  
 11/30/23  
 5'

1-Methylnaphthalene = <0.002  
 2-Methylnaphthalene = <0.002  
 Acenaphthene = <0.020  
 Anthracene = <0.020  
 Benzo(a)anthracene = <0.005  
 Benzo(a)pyrene = <0.020  
 Benzo(b)fluoranthene = <0.020  
 Benzo(k)fluoranthene = <0.020  
 Chrysene = <0.020  
 Dibenzo(a,h)anthracene = <0.020  
 Fluoranthene = <0.020  
 Fluorene = <0.020  
 Indeno(1,2,3-CD)pyrene = <0.020  
 Pyrene = <0.020

WH-SS-04@5'  
 11/30/23  
 5'

1-Methylnaphthalene = **0.006\***  
 2-Methylnaphthalene = <0.002  
 Acenaphthene = <0.020  
 Anthracene = <0.020  
 Benzo(a)anthracene = <0.005  
 Benzo(a)pyrene = <0.020  
 Benzo(b)fluoranthene = <0.020  
 Benzo(k)fluoranthene = <0.020  
 Chrysene = <0.020  
 Dibenzo(a,h)anthracene = <0.020  
 Fluoranthene = <0.020  
 Fluorene = <0.020  
 Indeno(1,2,3-CD)pyrene = <0.020  
 Pyrene = <0.020

WH-SS-03@5'  
 11/30/23  
 5'

1-Methylnaphthalene = 0.002  
 2-Methylnaphthalene = <0.002  
 Acenaphthene = <0.020  
 Anthracene = <0.020  
 Benzo(a)anthracene = <0.005  
 Benzo(a)pyrene = <0.020  
 Benzo(b)fluoranthene = <0.020  
 Benzo(k)fluoranthene = <0.020  
 Chrysene = <0.020  
 Dibenzo(a,h)anthracene = <0.020  
 Fluoranthene = <0.020  
 Fluorene = <0.020  
 Indeno(1,2,3-CD)pyrene = <0.020  
 Pyrene = <0.020



**LEGEND**

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

**PARAMETERS**

SAMPLE LOCATION  
 DATE SAMPLE COLLECTED  
 APPROXIMATE DEPTH  
 Arsenic = (mg/kg)  
 Barium = (mg/kg)  
 Cadmium = (mg/kg)  
 Chromium (VI) = (mg/kg)  
 Copper = (mg/kg)  
 Lead = (mg/kg)  
 Nickel = (mg/kg)  
 Selenium = (mg/kg)  
 Silver = (mg/kg)  
 Zinc = (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

NOTES:  
 VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT/OR ABOVE LABORATORY REPORTING LIMITS AND/OR MINIMUM DETECTION LIMITS.

VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS.

\*VALUES EXCEED ECMC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS, ONLY.

\*\*ACHIEVABLE PRACTICAL QUANTITATIVE LIMITS FOR HEXAVALENT CHROMIUM (Cr VI) IN SOILS IS IN THE RANGE OF 0.1 TO 1 mg/kg.

\*\*\*ARSENIC IS NATURALLY OCCURRING IN COLORADO. LOCAL CLEAN-UP LEVEL PENDING.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

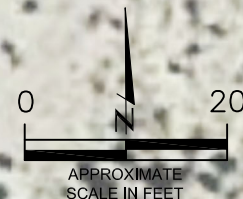
METALS IN SOIL MAP  
 SHABLE USX AB #11-16P  
 CLOSURE ASSESSMENT  
 40.582380 / -104.510025  
 SE¼ SE¼ SEC.11 T7N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-31051  
 REMEDIATION # 30818

FIGURE NO.  
6

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 CONSULTING, LLC  
 8000 W 44th Ave, Wheat Ridge, CO 80033  
 Ph: 303-433-0479 • F: 303-325-5449



WH-FS-01@6'  
 11/30/23  
 6'

Arsenic = **4.64\*\*\***  
 Barium = 45.2  
 Cadmium = <0.25  
 Chromium (VI) = <0.488\*\*  
 Copper = 6.13  
 Lead = 6.24  
 Nickel = 8.06  
 Selenium = **0.755\***  
 Silver = <0.25  
 Zinc = 31.6

WH-SS-01@5'  
 11/30/23  
 5'

Arsenic = **3.8\*\*\***  
 Barium = 58.5  
 Cadmium = <0.25  
 Chromium (VI) = <0.244\*\*  
 Copper = 6.4  
 Lead = 6.76  
 Nickel = 9.27  
 Selenium = **0.868\***  
 Silver = <0.25  
 Zinc = 27

WH-SS-02@5'  
 11/30/23  
 5'

Arsenic = **2.56\*\*\***  
 Barium = 76.1  
 Cadmium = <0.25  
 Chromium (VI) = <0.244\*\*  
 Copper = 6.58  
 Lead = 6.71  
 Nickel = 6.94  
 Selenium = **0.698\***  
 Silver = <0.25  
 Zinc = 24.2

WH-SS-04@5'  
 11/30/23  
 5'

Arsenic = **2.54\*\*\***  
 Barium = 51.9  
 Cadmium = <0.25  
 Chromium (VI) = <0.244\*\*  
 Copper = 4.91  
 Lead = 8.11  
 Nickel = 4.77  
 Selenium = **0.749\***  
 Silver = <0.25  
 Zinc = 21.3

WH-SS-03@5'  
 11/30/23  
 5'

Arsenic = **2.64\*\*\***  
 Barium = 59.4  
 Cadmium = <0.25  
 Chromium (VI) = <0.244\*\*  
 Copper = 4.04  
 Lead = 4.73  
 Nickel = 3.68  
 Selenium = **0.593\***  
 Silver = <0.25  
 Zinc = 17.8





## **ATTACHMENT A**

### **Photo Log**

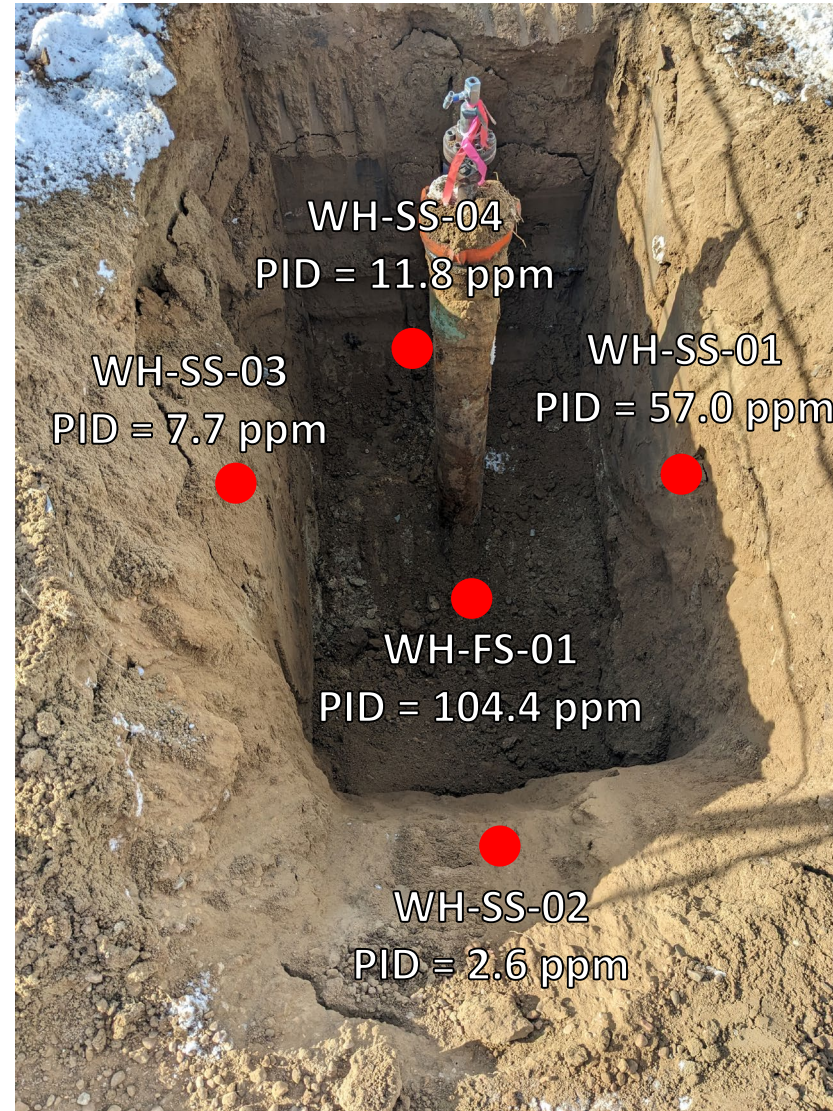
Shable USX AB #11-16P  
API # 05-123-31051  
Remediation # 30818

Closure Assessment

November 2023



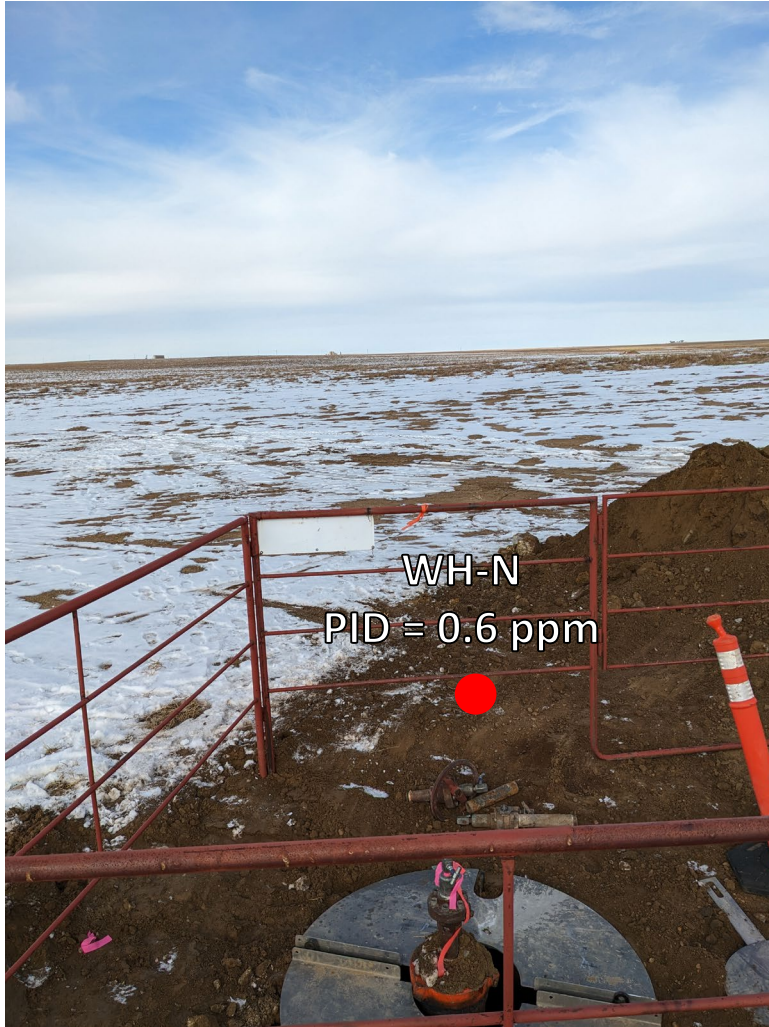
# Wellhead Excavation – 11/30/23



Looking west

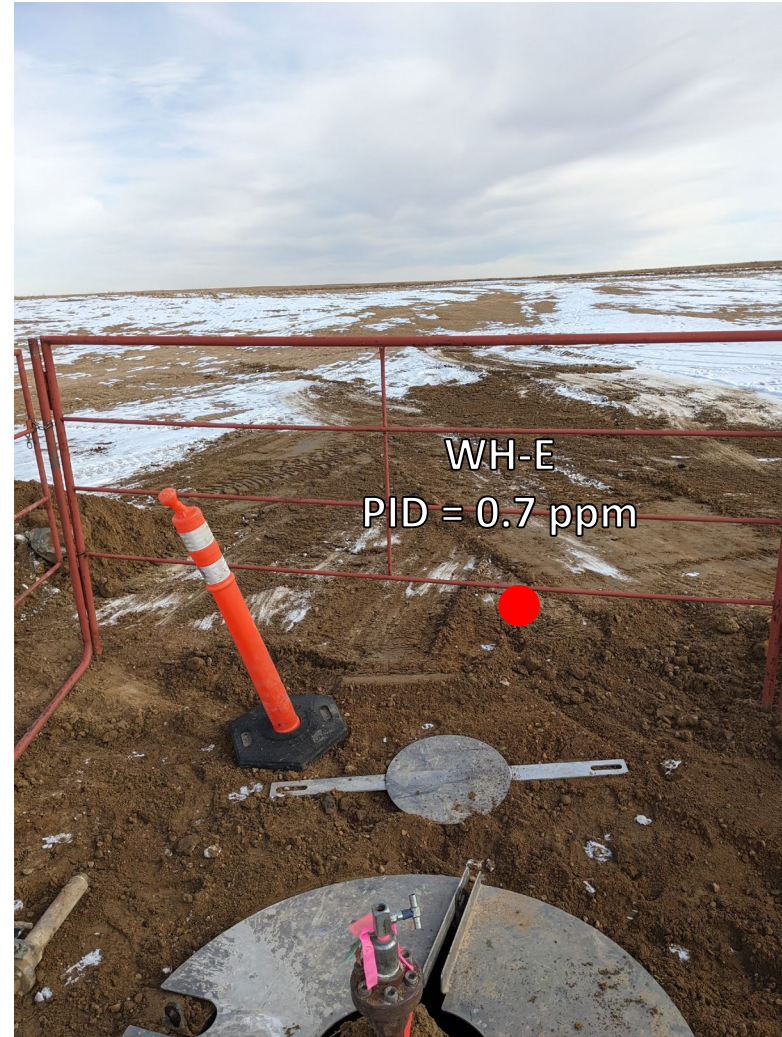
Slight petroleum hydrocarbon odor observed throughout excavation;  
no staining observed

# Wellhead Surface – 11/30/23



Looking north

Site in good condition – no petroleum hydrocarbon staining or odor observed on surface around wellhead



Looking east

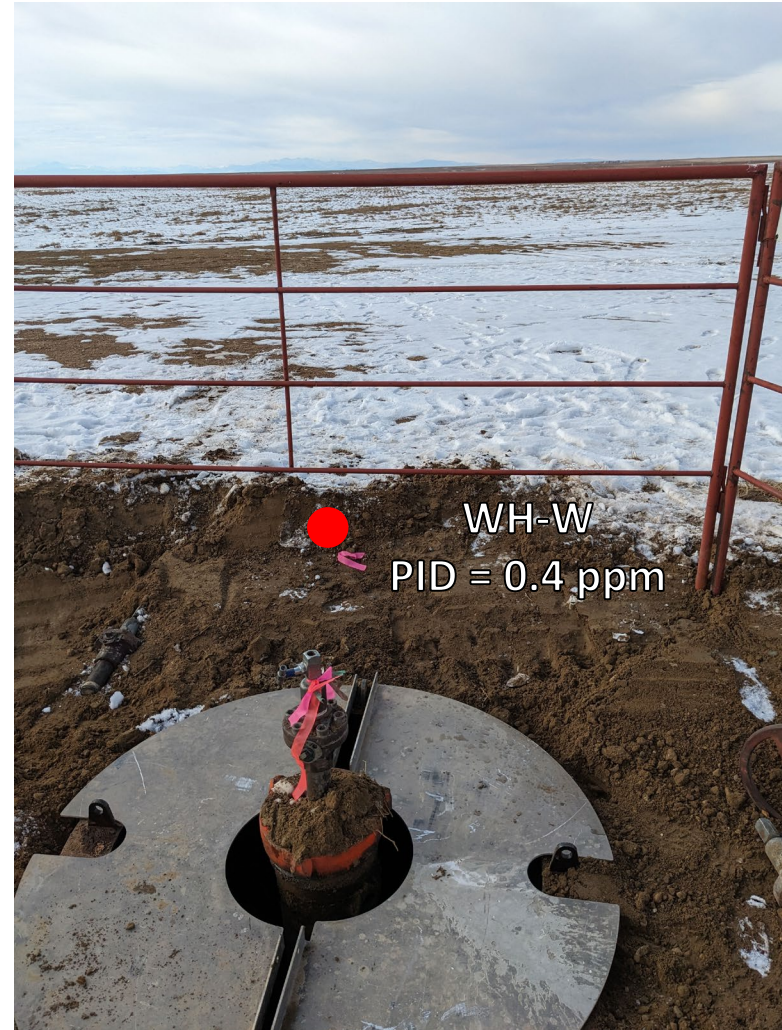
Site in good condition – no petroleum hydrocarbon staining or odor observed on surface around wellhead

# Wellhead Surface – 11/30/23



Looking south

Site in good condition – no petroleum hydrocarbon staining or odor observed on surface around wellhead



Looking west

Site in good condition – no petroleum hydrocarbon staining or odor observed on surface around wellhead



## **ATTACHMENT B**

### **Laboratory Analytical Report**



December 26, 2023

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. November 30, 2023. This project is associated with Origins project number Y312007-01.

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



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
WH-SS-01@5'	Y312007-01	Soil	November 30, 2023 11:30	11/30/2023 17:19
WH-SS-02@5'	Y312007-02	Soil	November 30, 2023 11:32	11/30/2023 17:19
WH-SS-03@5'	Y312007-03	Soil	November 30, 2023 11:34	11/30/2023 17:19
WH-SS-04@5'	Y312007-04	Soil	November 30, 2023 11:36	11/30/2023 17:19
WH-FS-01@6'	Y312007-05	Soil	November 30, 2023 11:38	11/30/2023 17:19

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

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: 432007

Client: Eagle

Client Project ID: SHABLE USX AB #11-16P

Checklist Completed by: TJH/EHS

Shipped Via: TRD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 12/01/12

Airbill #: N/A

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

Cooler Number/Temperature: 1, 3 °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 <sup>(1)</sup> ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

<sup>(1)</sup>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) JB

Date/Time Reviewed 12-4-12

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

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

**WH-SS-01@5'**  
**11/30/2023 11:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312007-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.130		0.101	mg/L	1	B3L0409	12/04/2023	12/05/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	45.3		25.0	mg/kg	1	B3L0401	12/04/2023	12/05/2023	
Residual Range Organics (C28-C40)	109		100	"	"	"	"	"	

Surrogate: o-Terphenyl	76.9 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L0526	12/05/2023	12/06/2023	U
1,3,5-Trimethylbenzene	0.00474		0.00200	"	"	"	"	"	
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	0.290		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.7 %		70-130			"	"	"	
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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

**WH-SS-01@5'**  
**11/30/2023 11:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312007-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	100 %		70-130			B3L05 26	12/05/2023	12/06/2023	
Surrogate: 4-Bromofluorobenzene	117 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	<b>0.904</b>		0.499	meq/L	10	[CALC]	12/02/2023	12/04/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	<b>0.869</b>		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	<b>0.005</b>		0.002	mg/kg	1	B3L0621	12/06/2023	12/09/2023	
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
Fluoranthene	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

**WH-SS-01@5'**  
**11/30/2023 11:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312007-01 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B3L0621	12/06/2023	12/09/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.1 %		60-130			"	"	"	
Surrogate: Pyrene-d10	95.6 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.29			pH Units	1	B3L0209	12/02/2023	12/04/2023	
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**SAR by 20B Saturated Paste**

SAR	1.05		0.0100	SAR	1	B3L0205	12/02/2023	12/04/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.228		0.00500	mmhos/cm	1	B3L0209	12/02/2023	12/04/2023	
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**Total Metals by 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

**WH-SS-01@5'**  
**11/30/2023 11:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y312007-01 (Soil)**

**Total Metals by 6020B**

Arsenic	3.8	0.25	0.25	mg/Kg	5	L721047	12/07/2023	12/21/2023	
Barium	58.5	0.25	0.25	"	"	"	"	"	
Cadmium	ND	0.25	0.25	"	"	"	"	"	
Copper	6.4	0.25	0.25	"	"	"	"	"	
Lead	6.76	0.25	0.25	"	"	"	"	"	
Nickel	9.27	0.25	0.25	"	"	"	"	"	
Selenium	0.868	0.25	0.25	"	"	"	"	"	
Silver	ND	0.25	0.25	"	"	"	"	"	
Zinc	27	2.5	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L721116	11/30/2023	12/07/2023	
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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

**WH-SS-02@5'**  
**11/30/2023 11:32:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312007-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.194		0.0987	mg/L	1	B3L0409	12/04/2023	12/05/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L0401	12/04/2023	12/05/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.3 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L0526	12/05/2023	12/06/2023	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

**WH-SS-02@5'**  
**11/30/2023 11:32:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312007-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	101 %		70-130			B3L05 26	12/05/2023	12/06/2023	
Surrogate: Toluene-d8	99.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	117 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	0.888		0.499	meq/L	10	[CALC]	12/02/2023	12/04/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.812		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L0621	12/06/2023	12/09/2023	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

**WH-SS-02@5'**

**11/30/2023 11:32:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312007-02 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B3L0621	12/06/2023	12/09/2023	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	105 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.9 %		60-130			"	"	"	
Surrogate: Pyrene-d10	94.7 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.27			pH Units	1	B3L0209	12/02/2023	12/04/2023	
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**SAR by 20B Saturated Paste**

SAR	1.08		0.0100	SAR	1	B3L0205	12/02/2023	12/04/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.215		0.00500	mmhos/cm	1	B3L0209	12/02/2023	12/04/2023	
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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

**WH-SS-02@5'**  
**11/30/2023 11:32:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y312007-02 (Soil)**

**Total Metals by 6020B**

Arsenic	2.56	0.25	0.25	mg/Kg	5	L721047	12/07/2023	12/21/2023	
Barium	76.1	0.25	0.25	"	"	"	"	"	
Cadmium	ND	0.25	0.25	"	"	"	"	"	
Copper	6.58	0.25	0.25	"	"	"	"	"	
Lead	6.71	0.25	0.25	"	"	"	"	"	
Nickel	6.94	0.25	0.25	"	"	"	"	"	
Selenium	0.698	0.25	0.25	"	"	"	"	"	
Silver	ND	0.25	0.25	"	"	"	"	"	
Zinc	24.2	2.5	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L721116	11/30/2023	12/07/2023	
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 8000 W 44th Ave  
 Wheat Ridge CO 80033

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

**WH-SS-03@5'**  
**11/30/2023 11:34:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312007-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.142		0.0982	mg/L	1	B3L0409	12/04/2023	12/05/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	30.7		25.0	mg/kg	1	B3L0401	12/04/2023	12/05/2023	
Residual Range Organics (C28-C40)	101		100	"	"	"	"	"	

Surrogate: o-Terphenyl	94.0 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L0526	12/05/2023	12/06/2023	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

**WH-SS-03@5'**  
**11/30/2023 11:34:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312007-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			B3L05 26	12/05/2023	12/06/2023	
Surrogate: Toluene-d8	99.0 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	118 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	0.834		0.499	meq/L	10	[CALC]	12/02/2023	12/04/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.07		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.002		0.002	mg/kg	1	B3L0621	12/06/2023	12/09/2023	
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

**WH-SS-03@5'**  
**11/30/2023 11:34:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312007-03 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B3L0621	12/06/2023	12/09/2023	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	105 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	94.9 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.28			pH Units	1	B3L0209	12/02/2023	12/04/2023	
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**SAR by 20B Saturated Paste**

SAR	1.32		0.0100	SAR	1	B3L0205	12/02/2023	12/04/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.256		0.00500	mmhos/cm	1	B3L0209	12/02/2023	12/04/2023	
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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

**WH-SS-03@5'**

**11/30/2023 11:34:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y312007-03 (Soil)**

**Total Metals by 6020B**

Arsenic	2.64	0.25	0.25	mg/Kg	5	L721047	12/07/2023	12/21/2023	
Barium	59.4	0.25	0.25	"	"	"	"	"	
Cadmium	ND	0.25	0.25	"	"	"	"	"	
Copper	4.04	0.25	0.25	"	"	"	"	"	
Lead	4.73	0.25	0.25	"	"	"	"	"	
Nickel	3.68	0.25	0.25	"	"	"	"	"	
Selenium	0.593	0.25	0.25	"	"	"	"	"	
Silver	ND	0.25	0.25	"	"	"	"	"	
Zinc	17.8	2.5	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L721116	11/30/2023	12/07/2023	
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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

**WH-SS-04@5'**  
**11/30/2023 11:36:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312007-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.147		0.0992	mg/L	1	B3L0409	12/04/2023	12/05/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L0401	12/04/2023	12/05/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	76.2 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L0526	12/05/2023	12/06/2023	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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 8000 W 44th Ave  
 Wheat Ridge CO 80033

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

**WH-SS-04@5'**  
**11/30/2023 11:36:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312007-04 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			B3L05 26	12/05/2023	12/06/2023	
Surrogate: Toluene-d8	98.0 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	114 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	0.890		0.499	meq/L	10	[CALC]	12/02/2023	12/04/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.23		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.006		0.002	mg/kg	1	B3L0621	12/06/2023	12/09/2023	
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

**WH-SS-04@5'**

**11/30/2023 11:36:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312007-04 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B3L0621	12/06/2023	12/09/2023	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	103 %		60-130			"	"	"	
Surrogate: Anthracene-d10	95.5 %		60-130			"	"	"	
Surrogate: Pyrene-d10	98.4 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.35			pH Units	1	B3L0209	12/02/2023	12/04/2023	
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**SAR by 20B Saturated Paste**

SAR	1.37		0.0100	SAR	1	B3L0205	12/02/2023	12/04/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.298		0.00500	mmhos/cm	1	B3L0209	12/02/2023	12/04/2023	
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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Shable USX AB#11-16P

**WH-SS-04@5'**

**11/30/2023 11:36:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y312007-04 (Soil)**

**Total Metals by 6020B**

Arsenic	2.54	0.25	0.25	mg/Kg	5	L721047	12/07/2023	12/21/2023	
Barium	51.9	0.25	0.25	"	"	"	"	"	
Cadmium	ND	0.25	0.25	"	"	"	"	"	
Copper	4.91	0.25	0.25	"	"	"	"	"	
Lead	8.11	0.25	0.25	"	"	"	"	"	
Nickel	4.77	0.25	0.25	"	"	"	"	"	
Selenium	0.749	0.25	0.25	"	"	"	"	"	
Silver	ND	0.25	0.25	"	"	"	"	"	
Zinc	21.3	2.5	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L721116	11/30/2023	12/07/2023	
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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Shable USX AB#11-16P

**WH-FS-01@6'**  
**11/30/2023 11:38:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312007-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.192		0.100	mg/L	1	B3L0409	12/04/2023	12/05/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	73.2		25.0	mg/kg	1	B3L0401	12/04/2023	12/05/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	84.9 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L0526	12/05/2023	12/06/2023	U
1,3,5-Trimethylbenzene	0.00616		0.00200	"	"	"	"	"	
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	0.636		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	"	
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 Wheat Ridge CO 80033

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

**WH-FS-01@6'**  
**11/30/2023 11:38:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312007-05 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	98.3 %		70-130			B3L05 26	12/05/2023	12/06/2023	
Surrogate: 4-Bromofluorobenzene	116 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	0.714	0.499	meq/L	10	[CALC]		12/02/2023	12/04/2023	
Magnesium	ND	0.823	"	"	"		"	"	
Sodium	1.98	0.435	"	"	"		"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.041	0.002	mg/kg	1	B3L0621		12/06/2023	12/09/2023	
2-Methylnaphthalene	0.003	0.002	"	"	"		"	"	
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
Fluoranthene	ND	0.020	"	"	"		"	"	U

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

**WH-FS-01@6'**

**11/30/2023 11:38:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312007-05 (Soil)**

**PAH by EPA 8270E**

Fluorene	ND		0.020	mg/kg	1	B3L0621	12/06/2023	12/09/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %		60-130			"	"	"	
Surrogate: Anthracene-d10	97.6 %		60-130			"	"	"	
Surrogate: Pyrene-d10	89.9 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.4 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.30			pH Units	1	B3L0209	12/02/2023	12/04/2023	
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**SAR by 20B Saturated Paste**

SAR	2.59		0.0100	SAR	1	B3L0205	12/02/2023	12/04/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.340		0.00500	mmhos/cm	1	B3L0209	12/02/2023	12/04/2023	
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**Total Metals by 6020B**

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

**WH-FS-01@6'**

**11/30/2023 11:38:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y312007-05 (Soil)**

**Total Metals by 6020B**

Arsenic	4.64	0.25	0.25	mg/Kg	5	L721047	12/07/2023	12/21/2023	
Barium	45.2	0.25	0.25	"	"	"	"	"	
Cadmium	ND	0.25	0.25	"	"	"	"	"	
Copper	6.13	0.25	0.25	"	"	"	"	"	
Lead	6.24	0.25	0.25	"	"	"	"	"	
Nickel	8.06	0.25	0.25	"	"	"	"	"	
Selenium	0.755	0.25	0.25	"	"	"	"	"	
Silver	ND	0.25	0.25	"	"	"	"	"	
Zinc	31.6	2.5	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L721116	11/30/2023	12/07/2023	
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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
<b>Batch B3L0401 - EPA 3550B</b>										
<b>Blank (B3L0401-BLK1)</b>										
					Prepared: 12/04/2023 Analyzed: 12/05/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		78.6	50-150			

Origins Laboratory, Inc.



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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
<b>Batch B3L0401 - EPA 3550B</b>										
<b>LCS (B3L0401-BS1)</b>										
					Prepared: 12/04/2023 Analyzed: 12/05/2023					
Diesel (C10-C28)	852	50.0	mg/kg	1000		85.2	70-130			
Residual Range Organics (C28-C40)	813	200	"	1000		81.3	70-130			
Surrogate: o-Terphenyl	39		"	49.8		78.4	50-150			

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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 B3L0401 - EPA 3550B**

<b>Matrix Spike (B3L0401-MS1)</b>	<b>Source: Y312005-01</b>			Prepared: 12/04/2023 Analyzed: 12/05/2023						
Diesel (C10-C28)	963	50.0	mg/kg	1000	ND	96.3	70-130			
Residual Range Organics (C28-C40)	954	200	"	1000	ND	95.4	70-130			
Surrogate: o-Terphenyl	56		"	49.8		113	50-150			

Origins Laboratory, Inc.



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 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
<b>Batch B3L0401 - EPA 3550B</b>										
<b>Matrix Spike Dup (B3L0401-MSD1)</b>					<b>Source: Y312005-01</b>					Prepared: 12/04/2023 Analyzed: 12/05/2023
Diesel (C10-C28)	894	50.0	mg/kg	1000	ND	89.4	70-130	7.47	35	
Residual Range Organics (C28-C40)	880	200	"	1000	ND	88.0	70-130	8.14	35	
Surrogate: o-Terphenyl	48		"	49.8		96.4	50-150			

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

**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 B3L0526 - EPA 5030 (soil)**

**Blank (B3L0526-BLK1)**

Prepared: 12/05/2023 Analyzed: 12/05/2023

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	0.15		"	0.125	118		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	101		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		70-130			

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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 B3L0526 - EPA 5030 (soil)

**LCS (B3L0526-BS1)**

Prepared: 12/05/2023 Analyzed: 12/05/2023

1,2,4-Trimethylbenzene	0.0940	0.00200	mg/kg	0.100		94.0	70-130			
1,3,5-Trimethylbenzene	0.0958	0.00200	"	0.100		95.8	70-130			
Benzene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.0947	0.00200	"	0.100		94.7	70-130			
Naphthalene	0.103	0.00380	"	0.100		103	70-130			
Toluene	0.107	0.00200	"	0.100		107	70-130			
o-Xylene	0.0902	0.00200	"	0.100		90.2	70-130			
m,p-Xylene	0.186	0.00400	"	0.200		92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.6	70-130			

Origins Laboratory, Inc.



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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 B3L0526 - EPA 5030 (soil)

Matrix Spike (B3L0526-MS1)	Source: Y312110-01			Prepared: 12/05/2023 Analyzed: 12/05/2023						
1,2,4-Trimethylbenzene	0.0829	0.00200	mg/kg	0.100	ND	82.9	70-130			
1,3,5-Trimethylbenzene	0.0832	0.00200	"	0.100	ND	83.2	70-130			
Benzene	0.102	0.00200	"	0.100	ND	102	70-130			
Ethylbenzene	0.0848	0.00200	"	0.100	ND	84.8	70-130			
Naphthalene	0.0778	0.00380	"	0.100	ND	77.8	70-130			
Toluene	0.0984	0.00200	"	0.100	ND	98.4	70-130			
o-Xylene	0.0813	0.00200	"	0.100	ND	81.3	70-130			
m,p-Xylene	0.169	0.00400	"	0.200	ND	84.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		117	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.3	70-130			

Origins Laboratory, Inc.



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 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 B3L0526 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B3L0526-MSD1)</b>	<b>Source: Y312110-01</b>			<b>Prepared: 12/05/2023 Analyzed: 12/05/2023</b>						
1,2,4-Trimethylbenzene	0.170	0.00200	mg/kg	0.100	ND	170	70-130	69.0	20	QM-07
1,3,5-Trimethylbenzene	0.174	0.00200	"	0.100	ND	174	70-130	70.8	20	QM-07
Benzene	0.208	0.00200	"	0.100	ND	208	70-130	68.9	20	QM-07
Ethylbenzene	0.187	0.00200	"	0.100	ND	187	70-130	75.3	20	QM-07
Naphthalene	0.161	0.00380	"	0.100	ND	161	70-130	69.6	20	QM-07
Toluene	0.212	0.00200	"	0.100	ND	212	70-130	73.2	20	QM-07
o-Xylene	0.168	0.00200	"	0.100	ND	168	70-130	69.4	20	QM-07
m,p-Xylene	0.331	0.00400	"	0.200	ND	165	70-130	64.9	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		117	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.8	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

**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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**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 B3L0621 - EPA 3580**

**Blank (B3L0621-BLK1)**

Prepared: 12/06/2023 Analyzed: 12/09/2023

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		102	60-130			
Surrogate: Anthracene-d10	190		"	200		97.4	60-130			
Surrogate: Pyrene-d10	190		"	200		97.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.9	60-130			

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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

**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 B3L0621 - EPA 3580**

**LCS (B3L0621-BS1)**

Prepared: 12/06/2023 Analyzed: 12/09/2023

1-Methylnaphthalene	0.198	0.002	mg/kg	0.200		98.8	70-130			
2-Methylnaphthalene	0.198	0.002	"	0.200		98.9	70-130			
Acenaphthene	0.194	0.020	"	0.200		97.1	70-130			
Anthracene	0.208	0.020	"	0.200		104	70-130			
Benzo (a) anthracene	0.206	0.005	"	0.200		103	70-130			
Benzo (a) pyrene	0.201	0.020	"	0.200		101	70-130			
Benzo (b) fluoranthene	0.191	0.020	"	0.200		95.3	70-130			
Benzo (g,h,i) perylene	0.206	0.020	"	0.200		103	70-130			
Benzo (k) fluoranthene	0.164	0.020	"	0.200		82.1	70-130			
Chrysene	0.173	0.020	"	0.200		86.7	70-130			
Dibenz (a,h) anthracene	0.201	0.020	"	0.200		101	70-130			
Fluoranthene	0.191	0.020	"	0.200		95.7	70-130			
Fluorene	0.200	0.020	"	0.200		99.9	70-130			
Indeno (1,2,3-cd) pyrene	0.210	0.020	"	0.200		105	70-130			
Naphthalene	0.197	0.002	"	0.200		98.3	70-130			
Phenanthrene	0.196	0.020	"	0.200		97.9	70-130			
Pyrene	0.182	0.020	"	0.200		91.1	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	200		"	200		97.9	60-130			
Surrogate: Pyrene-d10	200		"	200		97.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

**Matrix Spike (B3L0621-MS1)**

**Source: Y312005-01**

Prepared: 12/06/2023 Analyzed: 12/09/2023

1-Methylnaphthalene	0.207	0.002	mg/kg	0.200	ND	104	70-130			
2-Methylnaphthalene	0.206	0.002	"	0.200	ND	103	70-130			
Acenaphthene	0.203	0.020	"	0.200	ND	101	70-130			
Anthracene	0.212	0.020	"	0.200	ND	106	70-130			

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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 B3L0621 - EPA 3580**

<b>Matrix Spike (B3L0621-MS1)</b>		<b>Source: Y312005-01</b>			Prepared: 12/06/2023 Analyzed: 12/09/2023					
Benzo (a) anthracene	0.185	0.005	mg/kg	0.200	ND	92.4	70-130			
Benzo (a) pyrene	0.203	0.020	"	0.200	ND	101	70-130			
Benzo (b) fluoranthene	0.199	0.020	"	0.200	ND	99.6	70-130			
Benzo (g,h,i) perylene	0.213	0.020	"	0.200	ND	107	70-130			
Benzo (k) fluoranthene	0.191	0.020	"	0.200	ND	95.4	70-130			
Chrysene	0.189	0.020	"	0.200	ND	94.3	70-130			
Dibenz (a,h) anthracene	0.217	0.020	"	0.200	ND	108	70-130			
Fluoranthene	0.209	0.020	"	0.200	ND	105	70-130			
Fluorene	0.208	0.020	"	0.200	ND	104	70-130			
Indeno (1,2,3-cd) pyrene	0.223	0.020	"	0.200	ND	112	70-130			
Naphthalene	0.204	0.002	"	0.200	ND	102	70-130			
Phenanthrene	0.201	0.020	"	0.200	ND	101	70-130			
Pyrene	0.190	0.020	"	0.200	ND	95.1	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	190		"	200		97.1	60-130			
Surrogate: Pyrene-d10	190		"	200		93.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.2	60-130			

<b>Matrix Spike Dup (B3L0621-MSD1)</b>		<b>Source: Y312005-01</b>			Prepared: 12/06/2023 Analyzed: 12/09/2023					
1-Methylnaphthalene	0.213	0.002	mg/kg	0.200	ND	106	70-130	2.71	20	
2-Methylnaphthalene	0.211	0.002	"	0.200	ND	105	70-130	2.48	20	
Acenaphthene	0.207	0.020	"	0.200	ND	104	70-130	2.20	20	
Anthracene	0.205	0.020	"	0.200	ND	102	70-130	3.19	20	
Benzo (a) anthracene	0.218	0.005	"	0.200	ND	109	70-130	16.3	20	
Benzo (a) pyrene	0.210	0.020	"	0.200	ND	105	70-130	3.62	20	
Benzo (b) fluoranthene	0.206	0.020	"	0.200	ND	103	70-130	3.30	20	
Benzo (g,h,i) perylene	0.218	0.020	"	0.200	ND	109	70-130	2.26	20	

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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 B3L0621 - EPA 3580**

<b>Matrix Spike Dup (B3L0621-MSD1)</b>	<b>Source: Y312005-01</b>			<b>Prepared: 12/06/2023 Analyzed: 12/09/2023</b>						
Benzo (k) fluoranthene	0.172	0.020	mg/kg	0.200	ND	85.9	70-130	10.5	20	
Chrysene	0.190	0.020	"	0.200	ND	94.9	70-130	0.666	20	
Dibenz (a,h) anthracene	0.220	0.020	"	0.200	ND	110	70-130	1.48	20	
Fluoranthene	0.216	0.020	"	0.200	ND	108	70-130	2.83	20	
Fluorene	0.218	0.020	"	0.200	ND	109	70-130	4.36	20	
Indeno (1,2,3-cd) pyrene	0.223	0.020	"	0.200	ND	112	70-130	0.181	20	
Naphthalene	0.210	0.002	"	0.200	ND	105	70-130	2.92	20	
Phenanthrene	0.208	0.020	"	0.200	ND	104	70-130	3.11	20	
Pyrene	0.198	0.020	"	0.200	ND	98.8	70-130	3.83	20	
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	190		"	200		95.1	60-130			
Surrogate: Pyrene-d10	190		"	200		94.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.3	60-130			

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 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 B3L0205 - Saturated Paste Metals**

**Blank (B3L0205-BLK1)**

Prepared: 12/02/2023 Analyzed: 12/04/2023

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 (B3L0205-DUP1)**

**Source: Y312007-01**

Prepared: 12/02/2023 Analyzed: 12/04/2023

SAR	ND	0.0100	SAR		1.05				200	
Calcium PPM	19.6	10.0	mg/L		18.1			7.85	50	
Magnesium PPM	5.96	10.0	"		5.58			6.59	50	
Sodium PPM	19.8	10.0	"		20.0			0.905	50	

**Batch B3L0409 - DTPA Sorbitol Preparation**

**Blank (B3L0409-BLK1)**

Prepared: 12/04/2023 Analyzed: 12/05/2023

Boron	ND	0.100	mg/L							
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**Duplicate (B3L0409-DUP1)**

**Source: Y311672-04**

Prepared: 12/04/2023 Analyzed: 12/05/2023

Boron	0.210	0.0991	mg/L		0.227			7.72	50	
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 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
<b>Batch B3L0209 - Saturated Paste pH/EC</b>										
<b>Blank (B3L0209-BLK1)</b>					Prepared: 12/02/2023 Analyzed: 12/04/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3L0209-DUP1)</b>					<b>Source: Y312007-01</b> Prepared: 12/02/2023 Analyzed: 12/04/2023					
Specific Conductance (EC)	0.232	0.00500	mmhos/cm		0.228			1.74	25	
pH	8.29		pH Units		8.29			0.00	25	

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 Wheat Ridge CO 80033

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

**Total Metals by 6020B - 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 L721047 - 3050B**

<b>MSD (L 82227-MSD-L721047)</b>		<b>Source: 82227</b>			<b>Prepared: 12/07/2023 Analyzed: 12/21/2023</b>					
Cadmium	0.58	0.25	mg/Kg	0.477	0.149	90	75-125	5.6	80	
Zinc	55.3	2.5	"	23.8	36.8	78	75-125	0.7	80	
Silver	0.493	0.25	"	0.477	0.0368	96	75-125	4.9	80	
Selenium	4.58	0.25	"	4.77	0.922	77	75-125	3.5	80	
Nickel	13	0.25	"	2.38	11.7	55	75-125	3.1	80	*
Copper	11.1	0.25	"	2.38	10.2	38	75-125	1.8	80	*
Barium	108	0.25	"	4.77	89.7	384	75-125	11.3	80	I, *
Arsenic	4.7	0.25	"	2.38	4.27	18	75-125	3.3	80	*
Lead	8.43	0.25	"	2.38	7.35	45	75-125	3.6	80	I, *

<b>MS (L 82227-MS-L721047)</b>		<b>Source: 82227</b>			<b>Prepared: 12/07/2023 Analyzed: 12/21/2023</b>					
Selenium	4.42	0.25	mg/Kg	4.63	0.922	76	75-125			
Nickel	12.6	0.25	"	2.31	11.7	39	75-125			*
Copper	10.9	0.25	"	2.31	10.2	30	75-125			*
Cadmium	0.548	0.25	"	0.463	0.149	86	75-125			
Barium	121	0.25	"	4.63	89.7	676	75-125			I, *
Zinc	54.9	2.5	"	23.1	36.8	78	75-125			
Arsenic	4.86	0.25	"	2.31	4.27	25	75-125			*
Silver	0.469	0.25	"	0.463	0.0368	93	75-125			
Lead	8.74	0.25	"	2.31	7.35	60	75-125			I, *

<b>LCS (LCS-L721047)</b>		<b>Prepared: 12/07/2023 Analyzed: 12/21/2023</b>								
Barium	4.82	0.25	mg/Kg	5		96	80-120			
Silver	0.528	0.25	"	0.5		106	80-120			
Selenium	4.63	0.25	"	5		93	80-120			
Arsenic	2.52	0.25	"	2.5		101	80-120			
Nickel	2.6	0.25	"	2.5		104	80-120			

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

**Total Metals by 6020B - 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 L721047 - 3050B**

**LCS (LCS-L721047)**

Prepared: 12/07/2023 Analyzed: 12/21/2023

Lead	2.33	0.25	mg/Kg	2.5		93	80-120			
Copper	2.66	0.25	"	2.5		106	80-120			
Cadmium	0.495	0.25	"	0.5		99	80-120			
Zinc	24.5	2.5	"	25		98	80-120			

**LRB (LRB-L721047)**

Prepared: 12/07/2023 Analyzed: 12/21/2023

Barium	ND	0.25	mg/Kg				-			
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Copper	ND	0.25	"				-			

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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
<b>Batch L721116 -</b>										
<b>DUP (L 82121-DUP)</b>		<b>Source: 82121</b>			Prepared: Analyzed: 12/07/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		82121		-	0	20	
<b>MS (L 82121-MS)</b>		<b>Source: 82121</b>			Prepared: Analyzed: 12/07/2023					
Chromium, Hexavalent	34.2	2.5	mg/Kg	39.8	82121	86	75-125			
<b>LCS (LCS)</b>		Prepared: Analyzed: 12/07/2023								
Chromium, Hexavalent	7.13	0.5	mg/Kg	8		89	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 12/07/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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8000 W 44th Ave  
Wheat Ridge CO 80033

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

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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.

I Recoveries affected by interferences or high background

\* QC Failure

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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Jordan A. Bynon, Project Manager