

Wellhead Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure --		Tank Battery Closure --		Flowline Closure --		Partially Buried Vault Closure --	
Site Name & COGCC Facility Number: Shable USX AB #11-09P		Date: 11-2-2023					Remediation Project #: 30800		
Associated Wells: 05-123-31319		Age of Site: years					Number of Photos Attached: 4		
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)						40.585980 / -104.509297			Estimated Facility Size (acres):
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Good condition									
USCS Soil Type: CL				Estimated Depth to Groundwater: ~30-50'					
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed									
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed									
Wellhead(s)									
Well API	05-123-31319								
Age	years								
Condition of surface around wellhead	Good - No odor/no staining								
PID Readings	WH-N: 1.2	WH-E: 1.1	WH-S: 1.5	WH-W: 0.9					
Condition of subsurface (staining present)	Good - No odor/no staining								
PID Readings	4.4	5.9	2.0	1.1	6.2				
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01				
Photo Number(s)	See photo log								
Other observations regarding wellheads: Well casing cut/capped following assessment									
Summary									
Was impacted soil identified? <input checked="" type="radio"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards									
Total number of samples field screened: 9				Total number of samples collected: 9					
Highest PID Reading: 6.2				Total number of samples submitted to lab for analysis: 1					
If more than 10 cubic yards of impacted soil were observed:									
Vertical extent:				Estimated spill volume:					
Lateral extent:				Volume of soil removed:					
N/A									
Is additional investigation required?									
Was groundwater encountered during the investigation? <input checked="" type="radio"/> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils									
Measured depth to groundwater:				Was remedial groundwater removal conducted? Yes No					
Date Groundwater was encountered:				Commencement date of removal:					
Sheen on groundwater? Yes No				Volume of groundwater removed prior to sampling:					
Free product observed? Yes No				Volume of groundwater removed post sampling:					
Total number of samples collected:				Total Volume of groundwater removed:					
Total number of samples submitted to lab for analysis:									



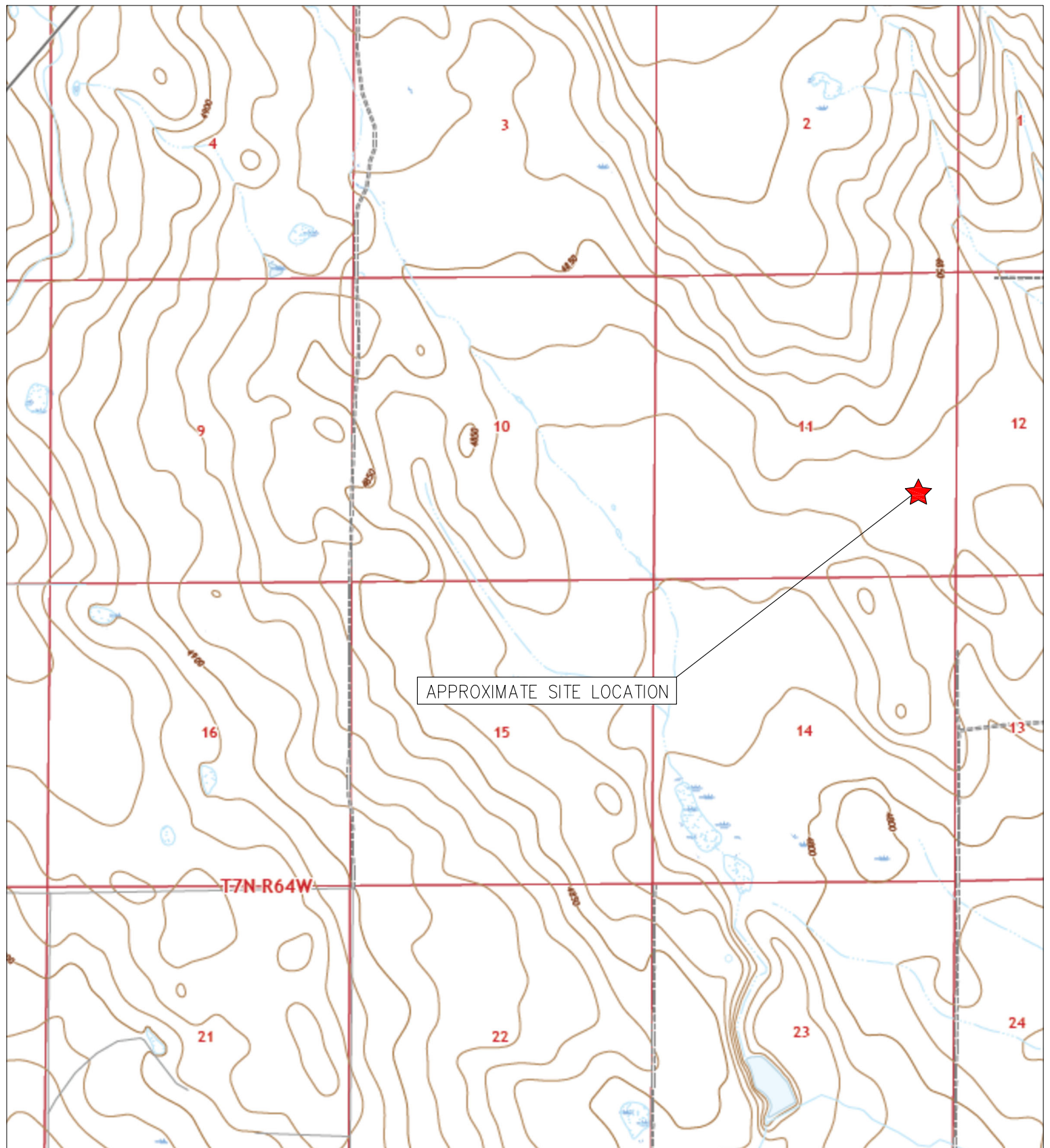
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Sample Location Map

Figure 4: Soil Analytical Map



TOPOGRAPHIC SITE LOCATION MAP
 SHABLE USX AB #11-09P
 CLOSURE ASSESSMENT
 40.585980 / -104.509297
 NE¼ SE¼ SEC.11 T7N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-31319
 REMEDIATION # 30800



EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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

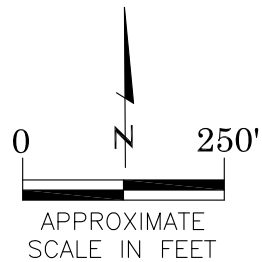
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,
 GALETON, CO QUADRANGLE 2022

FIGURE NO. 1



LEGEND

 FORMER SHABLE USX AB #11-09P WELLHEAD (PLUGGED AND ABANDONED)



AERIAL SITE LOCATION MAP
SHABLE USX AB #11-09P
CLOSURE ASSESSMENT
40.585980 / -104.509297
NE¼ SE¼ SEC.11 T7N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-31319
REMEDATION # 30800

FIGURE NO.

2

DRAWN BY:

RS



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

LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- SS-02 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)
 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM
 mg/L = MILLIGRAMS PER LITER
 mmhos/cm = MILLIMHOS PER CENTIMETER

BRL = ALL VALUES BELOW REGULATORY LIMITS

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

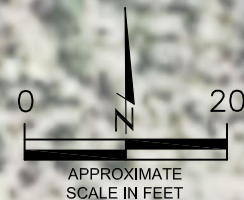
SOIL ANALYTICAL MAP
 SHABLE USX AB #11-09P
 CLOSURE ASSESSMENT
 40.585980 / -104.509297
 NE¼ SE¼ SEC.11 T7N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-31319
 REMEDIATION # 30800

FIGURE NO.
3

DRAWN BY:
RS



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



BACKGROUND-01@2'
 11/02/23
 2'
 SAR= 2.03
 pH = **8.35**

BACKGROUND-01

- WH-N
- WH-SS-01
- WH-SS-04
- WH-W
- WH-FS-01
- WH-E
- WH-SS-02
- WH-SS-03
- WH-S

WH-FS-01@7'
 11/02/23
 7'
 SAR= **7.01**
 pH = **8.60**
 ALL OTHERS = BRL

LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- SS-02 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

NA – NOT ANALYZED

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

ELEVATED METALS ARE NATURALLY OCCURRING IN COLORADO. LOCAL CLEAN-UP LEVELS ARE 1.25*BACKGROUND WHERE APPLICABLE.

VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS AND APPLICABLE LOCAL CLEAN-UP LEVELS.

*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.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

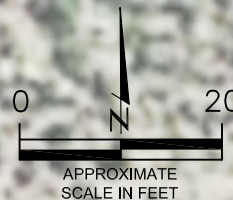
METALS IN SOIL MAP
 SHABLE USX AB #11-09P
 CLOSURE ASSESSMENT
 40.585980 / -104.509297
 NE¼ SE¼ SEC.11 T7N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-31319
 REMEDIATION # 30800

FIGURE NO.
4

DRAWN BY:
RS



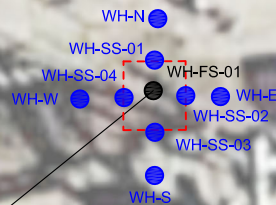
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 CONSULTING, LLC
 8000 W 44th Ave, Wheat Ridge, CO 80033
 Ph: 303-433-0479 • F: 303-325-5449



BACKGROUND-01@2'
 11/02/23
 2'

Arsenic = 2.76
 Barium = 42.3
 Cadmium = NA
 Chromium (VI) = NA
 Copper = NA
 Lead = NA
 Nickel = NA
 Selenium = NA
 Silver = NA
 Zinc = NA

BACKGROUND-01



WH-FS-01@7'
 11/02/23
 7'

Arsenic = **4.07**
 Barium = **203***
 Cadmium = 0.136
 Chromium (VI) = <0.160**
 Copper = <9.58
 Lead = <9.58
 Nickel = <9.58
 Selenium = 0.148
 Silver = <0.0958
 Zinc = <95.8



TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
SHABLE USX AB #11-09P
CLOSURE ASSESSMENT
40.585980 / -104.509297
NE¼ SE¼ SEC.11 T7N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-31319
REMEDATION # 30800

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-FS-01 @ 7' (40.585974 / -104.509301)	11/02/23	7	6.2	Y
WH-SS-01 @ 6' (40.585984 / -104.509303)	11/02/23	6	4.4	N
WH-SS-02 @ 6' (40.585975 / -104.509292)	11/02/23	6	5.9	N
WH-SS-03 @ 6' (40.585966 / -104.509299)	11/02/23	6	2.0	N
WH-SS-04 @ 6' (40.585975 / -104.509314)	11/02/23	6	1.1	N
WH-N @ 0.5' (40.585996 / -104.509298)	11/02/23	0.5	1.2	N
WH-E @ 0.5' (40.585975 / -104.509278)	11/02/23	0.5	1.1	N
WH-S @ 0.5' (40.585953 / -104.509305)	11/02/23	0.5	1.5	N
WH-W @ 0.5' (40.585975 / -104.509331)	11/02/23	0.5	0.9	N
Background-01 @ 2' (40.586000 / -104.509410)	11/02/23	2	0.7	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				



TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
SHABLE USX AB #11-09P
CLOSURE ASSESSMENT
40.585980 / -104.509297
NE¼ SE¼ SEC.11 T7N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-31319
REMEDIATION # 30800

Sample Location		WH-FS-01 @ 7'			Background-01 @ 2'	
(Latitude / Longitude)		(40.585974 / -104.509301)			(40.586000 / -104.509410)	
Sample Date		11/2/2023			11/2/2023	
Sample Depth		7			2	
PID Reading (ppm-v)		6.2			0.7	
Regulatory Limits						
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	Local Clean-Up Level		
VOLATILE ORGANIC COMPOUNDS						
Benzene	mg/kg	1.2	0.0026	--	<0.00200	NA
Toluene	mg/kg	490	0.69	--	<0.00200	NA
Ethylbenzene	mg/kg	5.8	0.78	--	<0.00200	NA
Total Xylenes	mg/kg	58	9.9	--	<0.00200	NA
Naphthalene	mg/kg	2	0.0038	--	<0.00380	NA
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.00200	NA
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.00200	NA
TOTAL PETROLEUM HYDROCARBONS						
TPH-GRO	mg/kg	500	--	--	<0.200	NA
TPH-DRO	mg/kg	500	--	--	<25.0	NA
TPH-RRO	mg/kg	500	--	--	<100	NA
POLYCYCLIC AROMATIC HYDROCARBONS						
1-Methyl-naphthalene	mg/kg	18	0.006	--	<0.002	NA
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.002	NA
Acenaphthene	mg/kg	360	0.55	--	<0.020	NA
Anthracene	mg/kg	1800	5.8	--	<0.020	NA
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.005	NA
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.020	NA
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.020	NA
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.020	NA
Chrysene	mg/kg	110	9	--	<0.020	NA
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.020	NA
Fluoranthene	mg/kg	240	8.9	--	<0.020	NA
Fluorene	mg/kg	240	0.54	--	<0.020	NA
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.020	NA
Pyrene	mg/kg	180	1.3	--	<0.020	NA
SOIL SUITABILITY (Inorganics)						
Boron	mg/L	2	--	--	0.454	NA
pH	standard unit	6-8.3	--	--	8.60	8.35
Sodium Adsorption Ratio (SAR)	--	<6	--	--	7.01	2.03
Specific Conductance (EC)	mmhos/cm	<4	--	--	0.494	NA
METALS						
Arsenic	mg/kg	0.68***	0.29***	3.45	4.07	2.76
Barium	mg/kg	15000	82	--	203*	42.3
Cadmium	mg/kg	71	0.38	--	0.136	NA
Copper	mg/kg	3100	46	--	<9.58	NA
Lead	mg/kg	400	14	--	<9.58	NA
Nickel	mg/kg	1500	26	--	<9.58	NA
Selenium	mg/kg	390	0.26	--	0.148	NA
Silver	mg/kg	390	0.8	--	<0.0958	NA
Zinc	mg/kg	23000	370	--	<95.8	NA
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	<0.160**	NA
ECMC = Energy & Carbon Management Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter PID = Photoionization Detector ppm-v = parts per million by volume mg/L = milligrams per liter NA = Not Analyzed RSSLs = Residential Soil Screening Levels GSSLs = Protection of Groundwater Soil Screening Levels 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 the laboratory reporting limit and/or minimum detection limit						
Elevated metals are naturally occurring in Colorado. The Local Clean-up Level is 1.25*Background where applicable.						
Values presented in BOLD exceed ECMC Table 915-1 Regulatory Limits and Local Clean-Up Levels. Values presented with asterisk (*) exceed ECMC Table 915-1 GSSLs, only.						
**Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg.						



ATTACHMENT A

Photo Log

Shable USX AB #11-09P
API # 05-123-31319
Remediation # 30800

Closure Assessment

November 2023

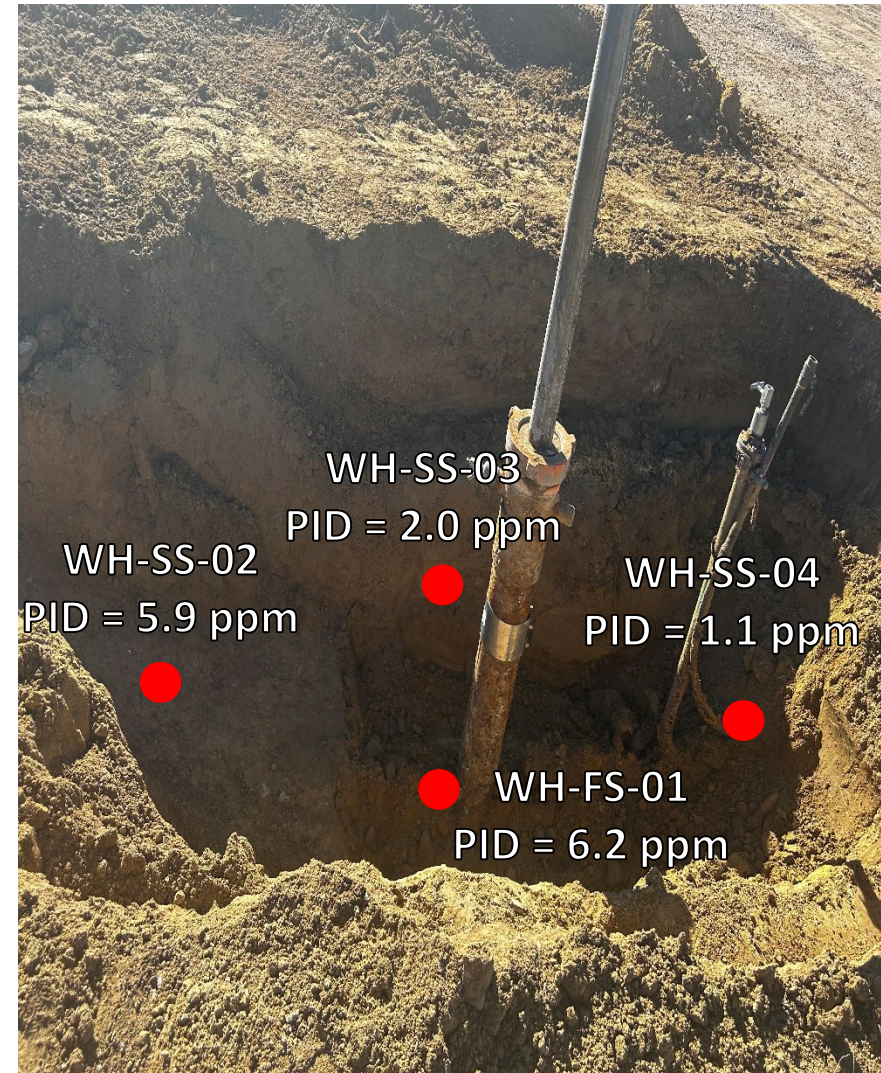


Wellhead Excavation – 11/2/23



Looking west

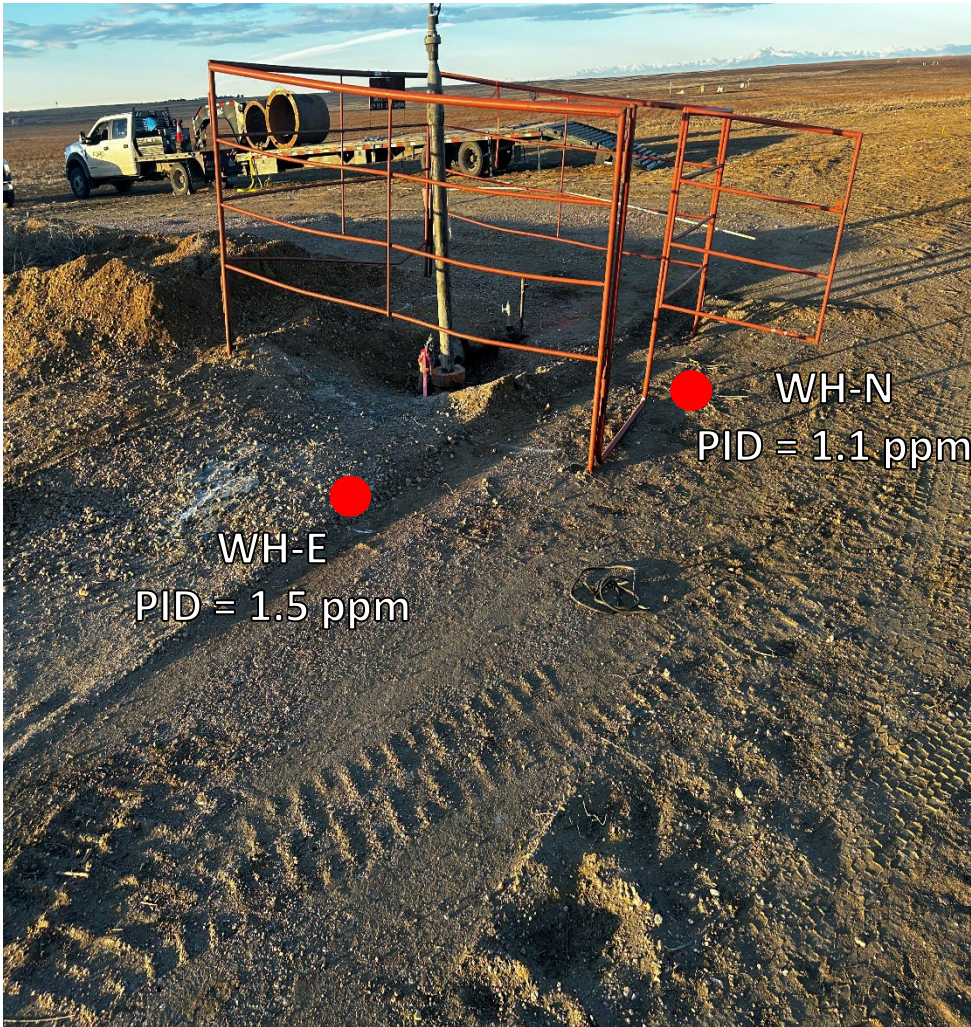
No petroleum hydrocarbon staining or odor observed



Looking south

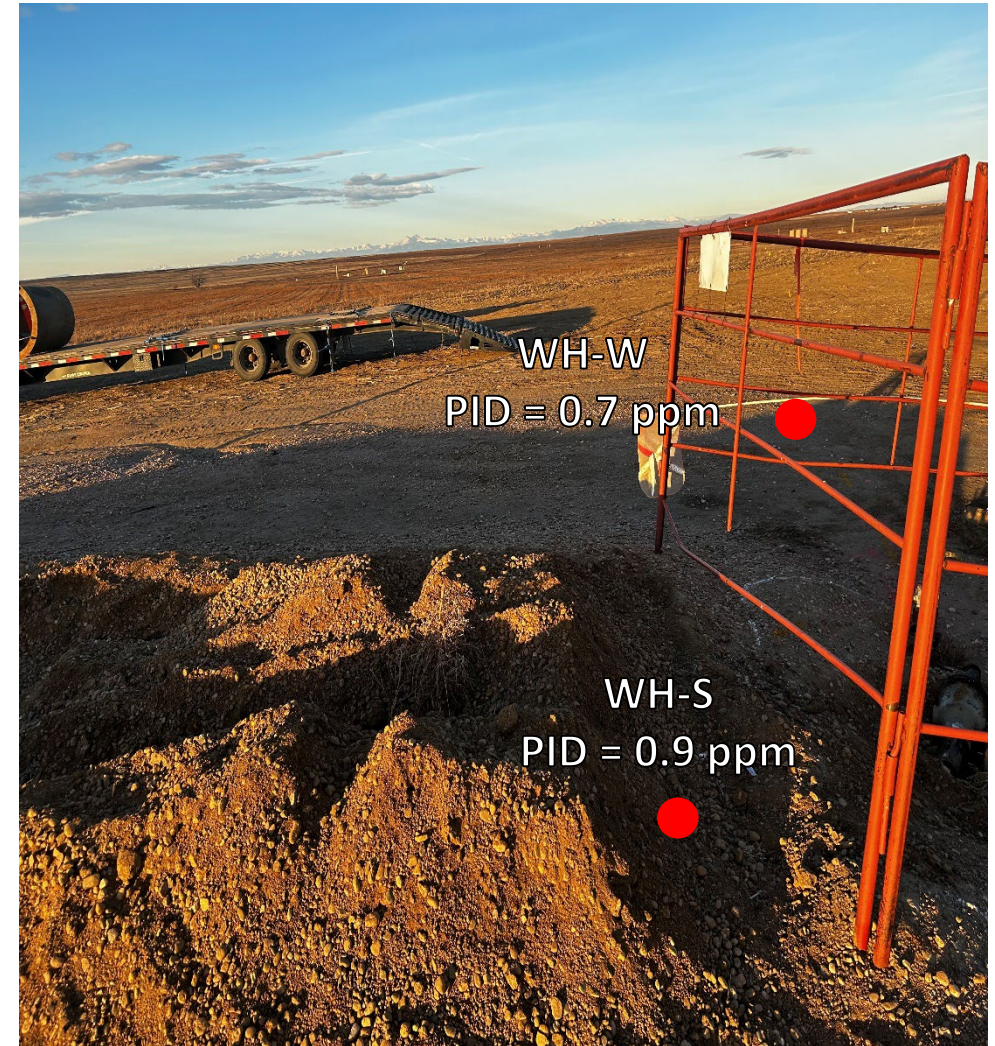
No petroleum hydrocarbon staining or odor observed

Wellhead Surface – 11/2/23



Looking southwest

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 Reports

November 20, 2023

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Shable USX AB#11-09P

Project Number - [none]

Attached are your analytical results for Noble - Shable USX AB#11-09P received by Origins Laboratory, Inc. November 02, 2023. This project is associated with Origins project number Y311071-01.

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#11-09P

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@7'	Y311071-01	Soil	November 2, 2023 12:18	11/02/2023 14:50

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#11-09P

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: U311071

Client: Eagle

Client Project ID: Shable USX AB#11-09P

Checklist Completed by: EHS

Shipped Via: FD

Date/time completed: 11/2/13

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: N/A

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

Water

Other:

Cooler Number/Temperature: 1 / 5.3 °C

1 °C

1 °C (Describe)

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 confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input 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: JB (Project Manager)

Date/Time Reviewed: 11-6-13

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#11-09P

WH-FS-01@7'

11/2/2023 12:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y311071-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.454		0.100	mg/L	1	B3K0622	11/06/2023	11/07/2023	
-------	-------	--	-------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3K0303	11/03/2023	11/06/2023	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	86.0 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3K0321	11/03/2023	11/04/2023	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	ND		0.00380	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

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#11-09P

WH-FS-01@7'

11/2/2023 12:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311071-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			B3K03 21	11/03/2023	11/04/2023	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	11/06/2023	11/07/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.99		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3K0630	11/06/2023	11/13/2023	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua

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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#11-09P

WH-FS-01@7'

11/2/2023 12:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311071-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B3K0630	11/06/2023	11/13/2023	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.2 %		60-130			"	"	"	
Surrogate: Anthracene-d10	111 %		60-130			"	"	"	
Surrogate: Pyrene-d10	95.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.8 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.60			pH Units	1	B3K0624	11/06/2023	11/07/2023	
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SAR by 20B Saturated Paste

SAR	7.01		0.0100	SAR	1	B3K0616	11/06/2023	11/07/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.494		0.00500	mmhos/cm	1	B3K0624	11/06/2023	11/07/2023	
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Table 915 metals by EPA 6020B

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Shable USX AB#11-09P

WH-FS-01@7'

11/2/2023 12:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311071-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.07		0.0958	mg/kg	10	B3K0320	11/03/2023	11/07/2023	
Barium	203		9.58	"	"	"	"	"	
Cadmium	0.136		0.0958	"	"	"	"	"	
Copper	ND		9.58	"	"	"	"	"	
Lead	ND		9.58	"	"	"	"	"	
Nickel	ND		9.58	"	"	"	"	"	
Selenium	0.148		0.0958	"	"	"	"	"	
Silver	ND		0.0958	"	"	"	"	"	
Zinc	ND		95.8	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.160	0.399	mg/kg dry	1	2522855	11/14/2023	11/17/2023	U
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Andrew Newberry
 Project Number: [none]
 Project: Noble - Shable USX AB#11-09P

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
Batch B3K0303 - EPA 3550B										
Blank (B3K0303-BLK1)										
					Prepared: 11/03/2023 Analyzed: 11/06/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	21		"	24.9		83.7	50-150			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Shable USX AB#11-09P

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 B3K0303 - EPA 3550B

LCS (B3K0303-BS1)

Prepared: 11/03/2023 Analyzed: 11/06/2023

Diesel (C10-C28)	967	50.0	mg/kg	1000		96.7	70-130			
Residual Range Organics (C28-C40)	970	200	"	1000		97.0	70-130			
Surrogate: o-Terphenyl	47		"	49.8		94.0	50-150			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Shable USX AB#11-09P

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 B3K0303 - EPA 3550B

Matrix Spike (B3K0303-MS1)	Source: Y311027-01			Prepared: 11/03/2023 Analyzed: 11/06/2023						
Diesel (C10-C28)	1180	50.0	mg/kg	1000	344	83.9	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	145	89.7	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.2	50-150			

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 Project: Noble - Shable USX AB#11-09P

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 B3K0303 - EPA 3550B

Matrix Spike Dup (B3K0303-MSD1)	Source: Y311027-01			Prepared: 11/03/2023 Analyzed: 11/06/2023						
Diesel (C10-C28)	1270	50.0	mg/kg	1000	344	92.7	70-130	7.21	35	
Residual Range Organics (C28-C40)	1050	200	"	1000	145	90.3	70-130	0.659	35	
Surrogate: o-Terphenyl	44		"	49.8		87.5	50-150			

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 Project: Noble - Shable USX AB#11-09P

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 B3K0321 - EPA 5030 (soil)

Blank (B3K0321-BLK1)

Prepared: 11/03/2023 Analyzed: 11/03/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	97.0		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	105		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.6		70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Shable USX AB#11-09P

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 B3K0321 - EPA 5030 (soil)

LCS (B3K0321-BS1)

Prepared: 11/03/2023 Analyzed: 11/03/2023

1,2,4-Trimethylbenzene	0.115	0.00200	mg/kg	0.100		115	70-130			
1,3,5-Trimethylbenzene	0.115	0.00200	"	0.100		115	70-130			
Benzene	0.0984	0.00200	"	0.100		98.4	70-130			
Ethylbenzene	0.113	0.00200	"	0.100		113	70-130			
Naphthalene	0.110	0.00380	"	0.100		110	70-130			
Toluene	0.114	0.00200	"	0.100		114	70-130			
o-Xylene	0.113	0.00200	"	0.100		113	70-130			
m,p-Xylene	0.224	0.00400	"	0.200		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Shable USX AB#11-09P

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 B3K0321 - EPA 5030 (soil)

Matrix Spike (B3K0321-MS1)	Source: Y311034-01			Prepared: 11/03/2023 Analyzed: 11/03/2023						
1,2,4-Trimethylbenzene	0.0794	0.00200	mg/kg	0.100	ND	79.4	70-130			
1,3,5-Trimethylbenzene	0.0795	0.00200	"	0.100	ND	79.5	70-130			
Benzene	0.0763	0.00200	"	0.100	ND	76.3	70-130			
Ethylbenzene	0.0842	0.00200	"	0.100	ND	84.2	70-130			
Naphthalene	0.0714	0.00380	"	0.100	ND	71.4	70-130			
Toluene	0.0852	0.00200	"	0.100	ND	85.2	70-130			
o-Xylene	0.0841	0.00200	"	0.100	ND	84.1	70-130			
m,p-Xylene	0.166	0.00400	"	0.200	ND	83.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Shable USX AB#11-09P

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 B3K0321 - EPA 5030 (soil)

Matrix Spike Dup (B3K0321-MSD1)	Source: Y311034-01		Prepared: 11/03/2023 Analyzed: 11/03/2023							
1,2,4-Trimethylbenzene	0.0358	0.00200	mg/kg	0.100	ND	35.8	70-130	75.6	20	QM-07
1,3,5-Trimethylbenzene	0.0360	0.00200	"	0.100	ND	36.0	70-130	75.3	20	QM-07
Benzene	0.0497	0.00200	"	0.100	ND	49.7	70-130	42.2	20	QM-07
Ethylbenzene	0.0418	0.00200	"	0.100	ND	41.8	70-130	67.4	20	QM-07
Naphthalene	0.0301	0.00380	"	0.100	ND	30.1	70-130	81.3	20	QM-07
Toluene	0.0490	0.00200	"	0.100	ND	49.0	70-130	53.9	20	QM-07
o-Xylene	0.0419	0.00200	"	0.100	ND	41.9	70-130	67.1	20	QM-07
m,p-Xylene	0.0828	0.00400	"	0.200	ND	41.4	70-130	67.1	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Shable USX AB#11-09P

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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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 B3K0320 - EPA 3050B

Blank (B3K0320-BLK1)

Prepared: 11/03/2023 Analyzed: 11/07/2023

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

LCS (B3K0320-BS1)

Prepared: 11/03/2023 Analyzed: 11/07/2023

Arsenic	0.0484	0.000100	mg/kg	0.0500		96.8	80-120			
Barium	5.09	0.0100	"	5.00		102	80-120			
Cadmium	0.0514	0.000100	"	0.0500		103	80-120			
Copper	0.528	0.0100	"	0.500		106	80-120			
Lead	0.0514	0.0100	"	0.0500		103	80-120			
Nickel	0.0500	0.0100	"	0.0500		100	80-120			
Selenium	0.0505	0.000100	"	0.0500		101	80-120			
Silver	0.0510	0.000100	"	0.0500		102	80-120			
Zinc	0.517	0.100	"	0.500		103	80-120			

Matrix Spike (B3K0320-MS1)

Source: Y311056-01

Prepared: 11/03/2023 Analyzed: 11/07/2023

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 Project: Noble - Shable USX AB#11-09P

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 B3K0320 - EPA 3050B

Matrix Spike (B3K0320-MS1)		Source: Y311056-01			Prepared: 11/03/2023 Analyzed: 11/07/2023					
Arsenic	6.18	0.0850	mg/kg	4.25	2.81	79.4	75-125			
Barium	483	8.50	"	425	73.8	96.3	75-125			
Cadmium	4.34	0.0850	"	4.25	0.103	99.8	75-125			
Copper	50.8	8.50	"	42.5	8.47	99.5	75-125			
Lead	10.2	8.50	"	4.25	8.11	48.3	75-125			QM-07
Nickel	12.3	8.50	"	4.25	11.0	30.4	75-125			QM-07
Selenium	3.96	0.0850	"	4.25	0.158	89.3	75-125			
Silver	4.31	0.0850	"	4.25	0.0449	100	75-125			
Zinc	68.5	85.0	"	42.5	33.6	82.0	75-125			

Matrix Spike Dup (B3K0320-MSD1)		Source: Y311056-01			Prepared: 11/03/2023 Analyzed: 11/07/2023					
Arsenic	7.92	0.0950	mg/kg	4.75	2.81	108	75-125	24.7	20	QR-02
Barium	544	9.50	"	475	73.8	98.9	75-125	11.7	20	
Cadmium	4.95	0.0950	"	4.75	0.103	102	75-125	13.1	20	
Copper	56.7	9.50	"	47.5	8.47	101	75-125	11.0	20	
Lead	11.1	9.50	"	4.75	8.11	63.8	75-125	9.17	20	QM-07
Nickel	11.6	9.50	"	4.75	11.0	13.6	75-125	5.40	20	QM-07
Selenium	4.48	0.0950	"	4.75	0.158	91.0	75-125	12.5	20	
Silver	4.87	0.0950	"	4.75	0.0449	102	75-125	12.3	20	
Zinc	75.1	95.0	"	47.5	33.6	87.4	75-125	9.28	20	

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Shable USX AB#11-09P

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 B3K0630 - EPA 3580

Blank (B3K0630-BLK1)

Prepared: 11/06/2023 Analyzed: 11/13/2023

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	180		"	200		89.0	60-130			
Surrogate: Pyrene-d10	190		"	200		96.8	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.2	60-130			

LCS (B3K0630-BS1)

Prepared: 11/06/2023 Analyzed: 11/13/2023

1-Methylnaphthalene	0.215	0.002	mg/kg	0.200		108	70-130			
2-Methylnaphthalene	0.210	0.002	"	0.200		105	70-130			
Acenaphthene	0.210	0.020	"	0.200		105	70-130			
Anthracene	0.216	0.020	"	0.200		108	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Shable USX AB#11-09P

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 B3K0630 - EPA 3580

LCS (B3K0630-BS1)

Prepared: 11/06/2023 Analyzed: 11/13/2023

Benzo (a) anthracene	0.202	0.005	mg/kg	0.200		101	70-130			
Benzo (a) pyrene	0.217	0.020	"	0.200		109	70-130			
Benzo (b) fluoranthene	0.198	0.020	"	0.200		99.2	70-130			
Benzo (g,h,i) perylene	0.220	0.020	"	0.200		110	70-130			
Benzo (k) fluoranthene	0.214	0.020	"	0.200		107	70-130			
Chrysene	0.208	0.020	"	0.200		104	70-130			
Dibenz (a,h) anthracene	0.211	0.020	"	0.200		106	70-130			
Fluoranthene	0.228	0.020	"	0.200		114	70-130			
Fluorene	0.216	0.020	"	0.200		108	70-130			
Indeno (1,2,3-cd) pyrene	0.215	0.020	"	0.200		108	70-130			
Naphthalene	0.210	0.002	"	0.200		105	70-130			
Phenanthrene	0.208	0.020	"	0.200		104	70-130			
Pyrene	0.196	0.020	"	0.200		98.2	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	190		"	200		96.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B3K0630-MS1)

Source: Y311034-01

Prepared: 11/06/2023 Analyzed: 11/13/2023

1-Methylnaphthalene	0.250	0.002	mg/kg	0.200	0.066	92.2	70-130			
2-Methylnaphthalene	0.272	0.002	"	0.200	0.103	84.6	70-130			
Acenaphthene	0.206	0.020	"	0.200	ND	103	70-130			
Anthracene	0.203	0.020	"	0.200	0.0004	101	70-130			
Benzo (a) anthracene	0.199	0.005	"	0.200	0.0003	99.3	70-130			
Benzo (a) pyrene	0.203	0.020	"	0.200	ND	102	70-130			
Benzo (b) fluoranthene	0.198	0.020	"	0.200	ND	98.9	70-130			
Benzo (g,h,i) perylene	0.208	0.020	"	0.200	ND	104	70-130			

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#11-09P

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 B3K0630 - EPA 3580

Matrix Spike (B3K0630-MS1)		Source: Y311034-01			Prepared: 11/06/2023 Analyzed: 11/13/2023					
Benzo (k) fluoranthene	0.228	0.020	mg/kg	0.200	ND	114	70-130			
Chrysene	0.198	0.020	"	0.200	ND	99.1	70-130			
Dibenz (a,h) anthracene	0.192	0.020	"	0.200	ND	95.9	70-130			
Fluoranthene	0.216	0.020	"	0.200	ND	108	70-130			
Fluorene	0.210	0.020	"	0.200	ND	105	70-130			
Indeno (1,2,3-cd) pyrene	0.209	0.020	"	0.200	ND	104	70-130			
Naphthalene	0.256	0.002	"	0.200	0.076	90.4	70-130			
Phenanthrene	0.200	0.020	"	0.200	ND	100	70-130			
Pyrene	0.196	0.020	"	0.200	ND	98.0	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	190		"	200		96.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.8	60-130			

Matrix Spike Dup (B3K0630-MSD1)		Source: Y311034-01			Prepared: 11/06/2023 Analyzed: 11/13/2023					
1-Methylnaphthalene	0.269	0.002	mg/kg	0.200	0.066	101	70-130	6.97	20	
2-Methylnaphthalene	0.299	0.002	"	0.200	0.103	98.2	70-130	9.54	20	
Acenaphthene	0.206	0.020	"	0.200	ND	103	70-130	0.299	20	
Anthracene	0.186	0.020	"	0.200	0.0004	92.8	70-130	8.57	20	
Benzo (a) anthracene	0.193	0.005	"	0.200	0.0003	96.4	70-130	2.97	20	
Benzo (a) pyrene	0.209	0.020	"	0.200	ND	105	70-130	2.96	20	
Benzo (b) fluoranthene	0.193	0.020	"	0.200	ND	96.3	70-130	2.69	20	
Benzo (g,h,i) perylene	0.213	0.020	"	0.200	ND	106	70-130	2.17	20	
Benzo (k) fluoranthene	0.214	0.020	"	0.200	ND	107	70-130	6.27	20	
Chrysene	0.193	0.020	"	0.200	ND	96.3	70-130	2.88	20	
Dibenz (a,h) anthracene	0.210	0.020	"	0.200	ND	105	70-130	9.14	20	
Fluoranthene	0.219	0.020	"	0.200	ND	110	70-130	1.73	20	

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#11-09P

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 B3K0630 - EPA 3580

Matrix Spike Dup (B3K0630-MSD1)	Source: Y311034-01			Prepared: 11/06/2023 Analyzed: 11/13/2023						
Fluorene	0.214	0.020	mg/kg	0.200	ND	107	70-130	1.55	20	
Indeno (1,2,3-cd) pyrene	0.210	0.020	"	0.200	ND	105	70-130	0.361	20	
Naphthalene	0.270	0.002	"	0.200	0.076	97.4	70-130	5.32	20	
Phenanthrene	0.204	0.020	"	0.200	ND	102	70-130	1.75	20	
Pyrene	0.197	0.020	"	0.200	ND	98.6	70-130	0.613	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	190		"	200		97.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.7	60-130			

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#11-09P

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 B3K0616 - Saturated Paste Metals

Blank (B3K0616-BLK1)

Prepared: 11/06/2023 Analyzed: 11/07/2023

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 (B3K0616-DUP1)

Source: Y311034-03

Prepared: 11/06/2023 Analyzed: 11/07/2023

SAR	ND	0.0100	SAR		22.3				200	
Calcium PPM	49.7	10.0	mg/L		46.1			7.60	50	
Magnesium PPM	50.1	10.0	"		46.4			7.61	50	
Sodium PPM	987	10.0	"		897			9.52	50	

Batch B3K0622 - DTPA Sorbitol Preparation

Blank (B3K0622-BLK1)

Prepared: 11/06/2023 Analyzed: 11/07/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3K0622-DUP1)

Source: Y311065-01

Prepared: 11/06/2023 Analyzed: 11/07/2023

Boron	0.377	0.0991	mg/L		0.377			0.161	50	
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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#11-09P

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 B3K0624 - Saturated Paste pH/EC

Blank (B3K0624-BLK1)

Prepared: 11/06/2023 Analyzed: 11/07/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3K0624-DUP1)

Source: Y311034-03

Prepared: 11/06/2023 Analyzed: 11/07/2023

Specific Conductance (EC)	4.96	0.00500	mmhos/cm	4.90			1.28	25
pH	8.38		pH Units	8.37			0.119	25

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#11-09P

Total Metals by 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2522855 - SW846 3060A										
BLANK (1205570820-BLK)					Prepared: 11/14/2023 Analyzed: 11/17/2023					
Hexavalent Chromium	ND	0.272	mg/kg				-			U
LCS (1205570821-BKS)					Prepared: 11/14/2023 Analyzed: 11/17/2023					
Hexavalent Chromium	2.57	0.258	mg/kg	2.58		99.3	80-120			
DUP (1205570822 D)					Source: 644301001 Prepared: 11/14/2023 Analyzed: 11/17/2023					
Hexavalent Chromium	ND	0.331	mg/kg dry		<0.133		0-50	N/A	50	U
MS (1205570823 S)					Source: 644301001 Prepared: 11/14/2023 Analyzed: 11/17/2023					
Hexavalent Chromium	4.22	0.420	mg/kg dry	4.20	<0.168	97.8	75-125			
DUP (1205570824 D)					Source: 644306001 Prepared: 11/14/2023 Analyzed: 11/17/2023					
Hexavalent Chromium	ND	0.423	mg/kg dry		<0.169		0-50	N/A	50	U
MS (1205570825 S)					Source: 644306001 Prepared: 11/14/2023 Analyzed: 11/17/2023					
Hexavalent Chromium	4.22	0.416	mg/kg dry	4.16	<0.166	99.2	75-125			
ILCS (1205570826-ILCS)					Prepared: 11/14/2023 Analyzed: 11/17/2023					
Hexavalent Chromium	6.77	0.330	mg/kg	7.12		95.1	80-120			

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#11-09P

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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.

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.

December 26, 2023

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Shable USX AB#11-09P

Project Number - [none]

Attached are your analytical results for Noble - Shable USX AB#11-09P received by Origins Laboratory, Inc. December 04, 2023. This project is associated with Origins project number Y312085-01.

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#11-09P

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@2'	Y312085-01	Soil	November 2, 2023 12:20	12/04/2023 16:30

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#11-09P

www.originslaboratory.com

Y312085

ORIGINS
 LABORATORY, INC

page 1 of 1

Client: Eagle Environmental Consulting
 Project Manager: Andrew Newberry
 Address: 8000 W 44th Ave
Wheat Ridge CO 80033
 Project Name: Shable USX AB#11-09P
 Project Number: ---
 Telephone Number: 303-433-0179
 Samples Collected By: SL
 Email Address: anewberry@eagle-environ.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summ #	Other	PH	SAF		Asymic - CF
Bachground-0102	11/2/23	1220	2	X				X				X	X	X	1 MDEs checked
															2
															3 subtotal parts
															4 prep
															5
															6
															7
															8
															9
															10
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:									
<i>[Signature]</i>	11/4/23	1600	EN5	12/4/23	1630	Same Day <input type="checkbox"/>									
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	48 Hr <input type="checkbox"/>									
						Standard <input checked="" type="checkbox"/>									

Temp Received: 6 Date Results Needed: NORCE

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Origins Laboratory, Inc.
[Signature]

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#11-09P

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1312085

Client: Eagle
 Client Project ID: Shable USX AB11-09P

Checklist Completed by: CHS

Shipped Via: HO
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Date/time completed: 12/4/12

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

Cooler Number/Temperature: 116 °C 1 °C 1 °C (Describe) °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⁾ ?	/			
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 ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
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 ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			/	
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 AS (Project Manager) Date/Time Reviewed 12-23

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#11-09P

Background-01@2'
11/2/2023 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312085-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.531		0.499	meq/L	10	[CALC]	12/05/2023	12/06/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.32		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.35			pH Units	1	B3L0515	12/05/2023	12/06/2023	
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SAR by 20B Saturated Paste

SAR	2.03		0.0100	SAR	1	B3L0510	12/05/2023	12/06/2023	
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Total Metals by 6020B

Arsenic	2.76	0.0855	0.25	mg/Kg	5	L721239	12/07/2023	12/21/2023	
Barium	42.3	0.042	0.25	"	"	"	"	"	

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#11-09P

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 B3L0510 - Saturated Paste Metals

Blank (B3L0510-BLK1)

Prepared: 12/05/2023 Analyzed: 12/06/2023

SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

Duplicate (B3L0510-DUP1)

Source: Y312014-02

Prepared: 12/05/2023 Analyzed: 12/06/2023

SAR	ND	0.0100	SAR		21.1				200	
Calcium PPM	10.7	10.0	mg/L		9.87			7.98	50	
Magnesium PPM	1.82	10.0	"		1.65			9.80	50	
Sodium PPM	287	10.0	"		271			5.54	50	

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#11-09P

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 B3L0515 - Saturated Paste pH/EC

Duplicate (B3L0515-DUP1)

Source: Y312014-02

Prepared: 12/05/2023 Analyzed: 12/06/2023

pH	8.90		pH Units		8.89			0.112	25	
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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#11-09P

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
Batch L721239 - 3050B										
MSD (L 88386-MSD-L721239)			Source: 88386			Prepared: 12/07/2023 Analyzed: 12/21/2023				
Barium	102	0.25	mg/Kg dry	4.94	100	41	75-125	0.9	80	*
Arsenic	3.82	0.25	"	2.47	1.35	100	75-125	5.3	80	
MS (L 88386-MS-L721239)			Source: 88386			Prepared: 12/07/2023 Analyzed: 12/21/2023				
Arsenic	3.62	0.25	mg/Kg dry	2.33	1.35	98	75-125			
Barium	103	0.25	"	4.65	100	65	75-125			*
LCS (LCS-L721239)						Prepared: 12/07/2023 Analyzed: 12/21/2023				
Arsenic	2.49	0.25	mg/Kg	2.5		100	80-120			
Barium	4.84	0.25	"	5		97	80-120			
LRB (LRB-L721239)						Prepared: 12/07/2023 Analyzed: 12/21/2023				
Barium	ND	0.25	mg/Kg				-			
Arsenic	ND	0.25	"				-			

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#11-09P

Notes and Definitions

* 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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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.

Jordan A. Bynon, Project Manager