

## Flowline Closure Checklist

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

Additional Attachments:	-	Tank Battery Closure	-	Wellhead Closure	-	Pit Closure	-	Partially Buried Vault Closure	-	
Site Name & COGCC Facility Number:		Date:		Remediation Project #:						
Wolfe USX CC #7-25		4/24/24		33031						
Associated Wells:		Age of Site:		Number of Photos Attached:						
05-123-27357		years		2						

Starting point: (GPS coordinates and descriptions)  
 40.323621 / -104.485115

End point: (GPS coordinates and descriptions)  
 40.326736 / -104.482748

USCS Soil Type: Clayey Sand      Estimated Depth to Groundwater: >20'

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
**None**

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
**None**

#### Flowlines

Flowline type	OGW									
Depth	4'									
Age	years									
Length	~1,483'									
Construction Material	Steel									
Were flowlines pulled?	No									
Visual Integrity of lines	Good									
Visual impacts if trenched	None									
PID Readings if trenched	1.3	0.4	2.6	2.7						
Sample taken? Location/Sample ID#	FL-SS-01	FL-SS-02	BG-01	BG-02						
Photo Number(s)	See photolog									

Other observations regarding on location flowlines:  
**Flowline abandoned in place**

#### Summary

Was impacted soil identified?  No     Yes - less than 10 cubic yards     Yes - more than 10 cubic yards

Total number of samples field screened: 4      Total number of samples collected: 4

Highest PID Reading: 2.7      Total number of samples submitted to lab for analysis: 2

If more than 10 cubic yards of impacted soil were observed:

Vertical extent:      Estimated spill volume:

Lateral extent:      Volume of soil removed:

Is additional investigation required?

Was groundwater encountered during the investigation?  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:



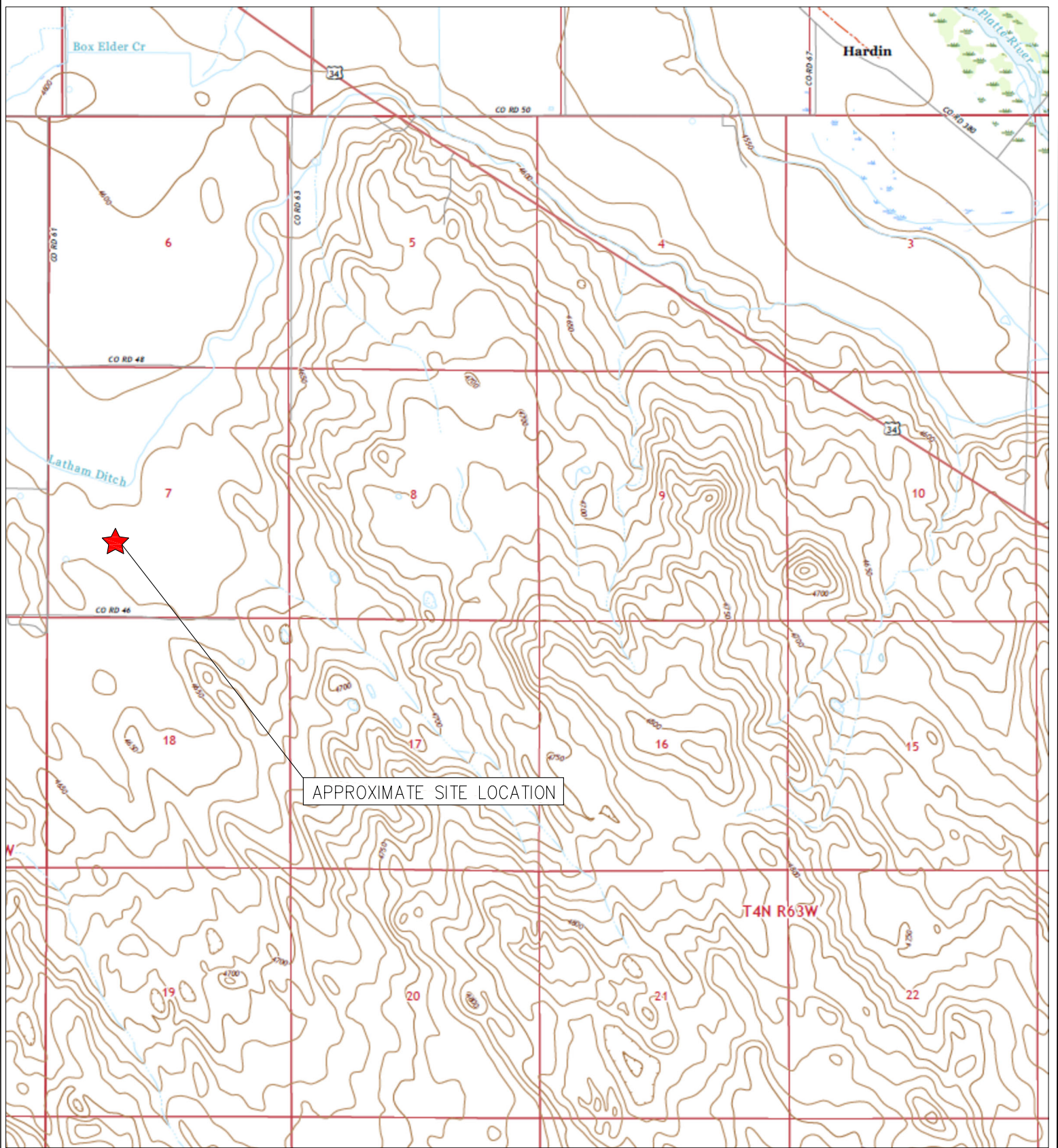
## **FIGURES**

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Soil Analytical Map**

**Figure 4: Metals in Soil Map**



TOPOGRAPHIC SITE LOCATION MAP  
 WOLFE USX CC #7-25  
 CLOSURE ASSESSMENT  
 40.323635 / -104.485123  
 NE¼ SW¼ SEC.7 T4N R63W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-27357  
 REMEDIATION # 33031



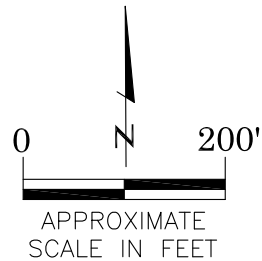
**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, LLC

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



**LEGEND**

- FORMER WOLFE USX CC #7-25 WELLHEAD
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)



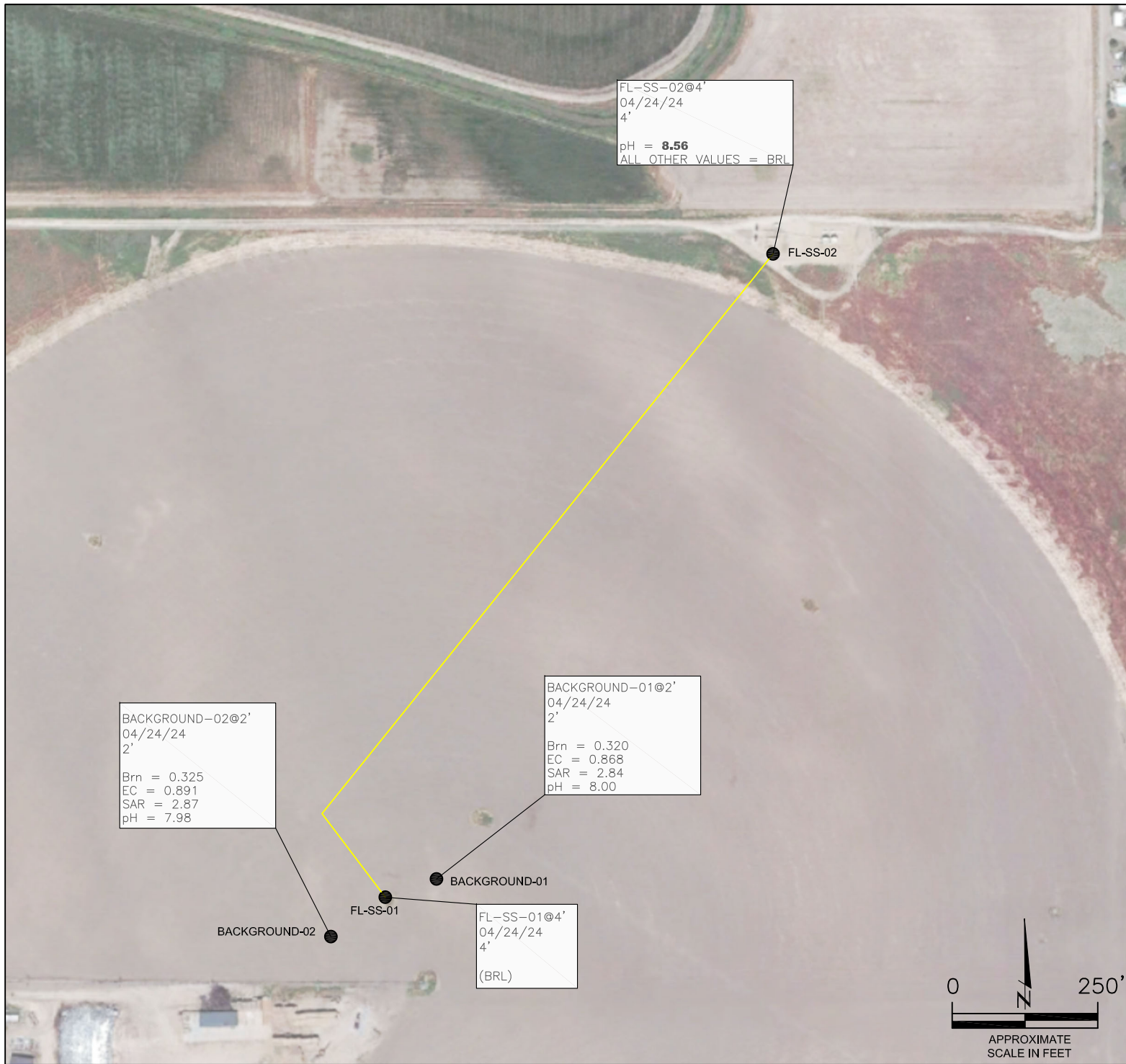
AERIAL SITE LOCATION MAP  
 WOLFE USX CC #7-25  
 CLOSURE ASSESSMENT  
 40.323635 / -104.485123  
 NE¼ SW¼ SEC.7 T4N R63W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-27357  
 REMEDIATION # 33031

FIGURE NO.  
2

DRAWN BY:  
ZM



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



FL-SS-02@4'  
04/24/24  
4'  
pH = **8.56**  
ALL OTHER VALUES = BRL

BACKGROUND-01@2'  
04/24/24  
2'  
Brn = 0.320  
EC = 0.868  
SAR = 2.84  
pH = 8.00

FL-SS-01@4'  
04/24/24  
4'  
(BRL)

BACKGROUND-02@2'  
04/24/24  
2'  
Brn = 0.325  
EC = 0.891  
SAR = 2.87  
pH = 7.98

**LEGEND**

- APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)
- 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)  
pH = pH (pH UNITS)  
SAR= SODIUM ADSORPTION RATIO  
EC = SPECIFIC CONDUCTANCE (mmhos/cm)  
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

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

BRL = BELOW REGULATORY LIMITS  
(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:  
LABORATORY RERUNS WERE COMPLETED AS APPLICABLE ON SAMPLES WITH pH VALUES OUTSIDE OF ECMC TABLE 915-1 REGULATORY RANGE. RESULTS OF THE RERUNS ARE PRESENTED IN PARENTHESES.

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP  
WOLFE USX CC #7-25  
CLOSURE ASSESSMENT  
40.323635 / -104.485123  
NE¼ NW¼ SEC.7 T4N R63W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-27357  
REMIATION # 33031

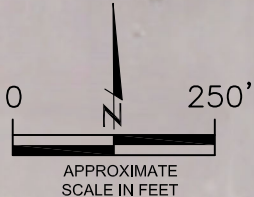


FIGURE NO.  
3

DRAWN BY:  
ZM

**EAGLE ENVIRONMENTAL CONSULTING, LLC**  
8000 W 44th Ave, Wheat Ridge, CO 80033  
Ph: 303-433-0479 • F: 303-525-5449





## **TABLES**

**Table 1: Field Data Summary Table**

**Table 2: Summary of Volatile Organic Soil Chemistry Data**

**Table 3: Summary of PAHs Soil Chemistry Data**

**Table 4: Summary of Soil Suitability for Reclamation**

**Table 5: Summary of Metals in Soil Chemistry Data**

**TABLE 1**  
**FIELD DATA SUMMARY TABLE**  
**NOBLE ENERGY 100322**  
**WOLFE USX CC #7-25, WELD COUNTY, COLORADO**  
**REM # 33031**

Sample ID	Sample Date	Depth	GPS Data		VOC Concentration (ppm)
			Latitude/Longitude		
FL-SS-01 @ 4'	4/24/2024	4	40.323633	-104.485112	1.3
FL-SS-02 @ 4'	4/24/2024	4	40.326712	-104.482733	0.4
Background-01 @ 2'	4/24/2024	2	40.323696	-104.484856	2.6
Background-02 @ 2'	4/24/2024	2	40.323453	-104.485454	2.7

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTMZone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

PDOP = Position Dilution of Precision

ppm = Parts per million

in. = Inches

ft. = Feet

bgs = Below ground surface

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

= Background Sample

TABLE 2  
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA  
NOBLE ENERGY 100322  
WOLFE USX CC #7-25, WELD COUNTY, COLORADO  
REM # 33031

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
FL-SS-01 @ 4'	4/24/2024	4	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
FL-SS-02 @ 4'	4/24/2024	4	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
Background-01 @ 2'	4/24/2024	2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
Background-01 @ 2'	4/24/2024	2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100

1. Bold values exceed the ECMC Table 915-1 limit(s)
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
3. \* Indicates laboratory minimum detection limit in excess of SSL
4. \*\* Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA - Not analyzed

- = Source material characterization sample, excavated and transported off site for disposal.
- = Material excavated and transported off site for disposal.
- = Background Sample

**TABLE 3**  
**SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA**  
**NOBLE ENERGY 100322**  
**WOLFE USX CC #7-25, WELD COUNTY, COLORADO**  
**REM # 33031**

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
FL-SS-01 @ 4'	4/24/2024	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
FL-SS-02 @ 4'	4/24/2024	4	<0.020	<0.020	<0.005	0.006	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
Background-01 @ 2'	4/24/2024	2	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
Background-02 @ 2'	4/24/2024	2	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002

1. Bold values exceed the ECMC Table 915-1 limit(s)
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
3. \* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.  
 = Material excavated and transported off site for disposal.  
 = Background Sample

TABLE 4  
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION  
NOBLE ENERGY 100322  
WOLFE USX CC #7-25, WELD COUNTY, COLORADO  
REM # 33031

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	4	6	2
FL-SS-01 @ 4'	4/24/2024	4	8.26	0.627	1.78	0.180
FL-SS-02 @ 4'	4/24/2024	4	<b>8.56</b>	0.337	2.25	0.262
Background-01 @ 2'	4/24/2024	2	8.00	0.891	2.87	0.320
Background-02 @ 2'	4/24/2024	2	7.98	0.868	2.84	0.325
Maximum Background Concentration			<b>8.56</b>	0.891	2.87	0.325
Average Background Concentration			8.20	0.681	2.44	0.27

1. Bold faced values exceed the ECMC Table 915-1 limit(s)

2. Blue highlighted soil analytical values indicate a regulatory exceedance

Laboratory reruns may be conducted on samples with pH results exceeding ECMC Table 915-1 regulatory range. Results of the reruns will be presented in parentheses.

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

= Background sample

**TABLE 5**  
**SUMMARY OF METALS IN SOIL CHEMISTRY DATA**  
**NOBLE ENERGY 100322**  
**WOLFE USX CC #7-25, WELD COUNTY, COLORADO**  
**REM # 33031**

Sample ID	Sample Date	Depth (ft)	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)
			☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
FL-SS-01 @ 4'	4/24/2024	4	2.48	68.2	0.107	<0.165	<8.63	6.08	5.43	<0.224	<0.0863	<31.9
FL-SS-02 @ 4'	4/24/2024	4	3.82	94.2	0.176	<0.138	<9.29	7.51	8.36	<0.242	<0.0929	40.2
Background-01 @ 2'	4/24/2024	2	5.24	75.9	0.126	0.164	<9.05	7.43	8.69	0.354	<0.0905	46.1
Background-02 @ 2'	4/24/2024	2	2.47	67.9	0.116	<0.138	<9.29	5.49	6.62	0.245	<0.0929	<34.4
Maximum Background Concentration			5.24	75.9	0.126	0.164	ND	7.43	8.69	0.354	ND	46.1
Local Clean-up Level (125% Average Background Concentration)			6.55	94.875	0.38	0.205	46	14	26	0.4425	0.8	370

1. Bold values exceed the local clean-up levels & ECMC Table 915-1 limit(s)
  2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
- Elevated metals are naturally occurring in Colorado. Local clean-up levels are 1.25\*Maximum Background Concentration, where applicable.
- \* Indicates laboratory minimum detection limit in excess of SSL
- \*\* Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1.0 mg/kg
- NA - Not analyzed
- ND - Not Detected
- = Source material characterization sample, excavated and transported off site for disposal.
- = Material excavated and transported off site for disposal.
- = Background Sample



## **ATTACHMENT A**

### **Photo Log**

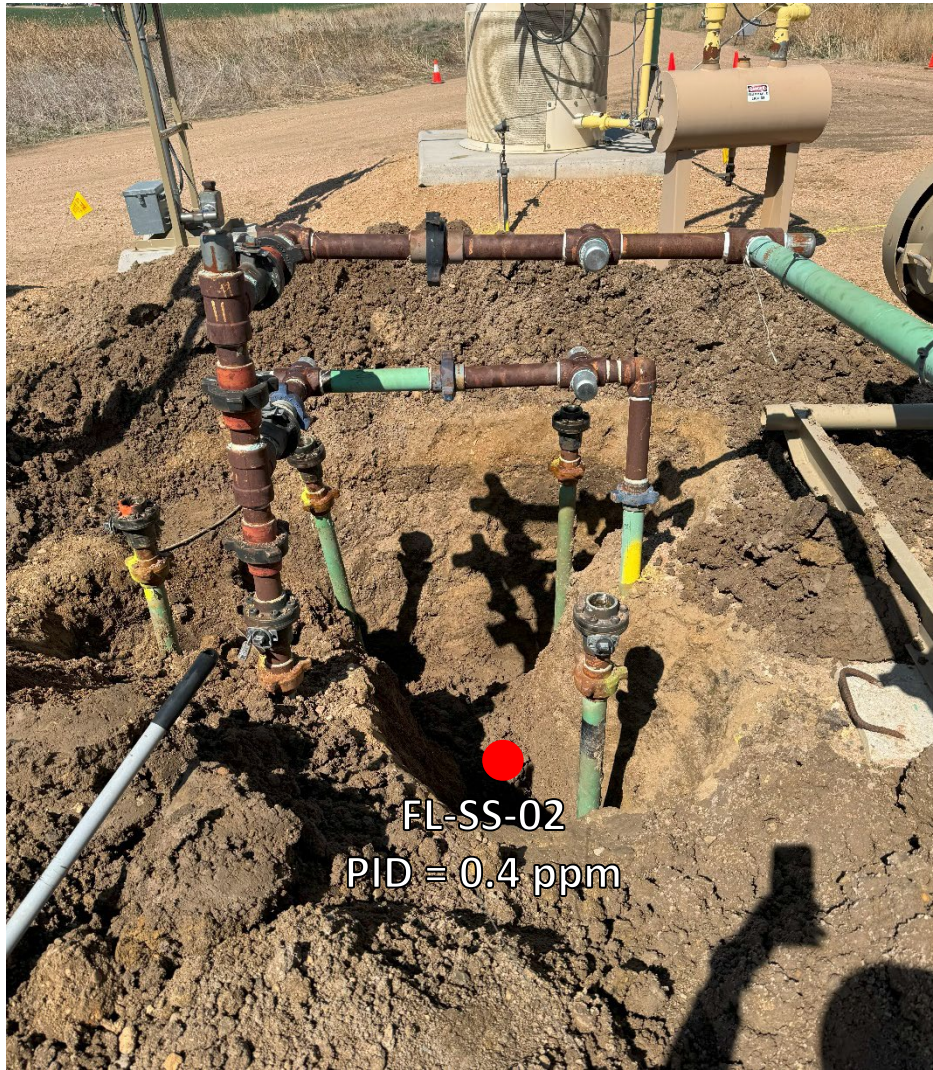
Wolfe USX CC #7-25  
API # 05-123-27357  
Remediation # 33031

Closure Assessment

April 2024



# Flowline Removal/Assessment – 04/24/24



FL-SS-02  
PID = 0.4 ppm

Looking west flowline Pt B/terminus at separator

No petroleum hydrocarbon staining or odor observed



FL-SS-01  
PID = 1.3 ppm

Looking east at flowline Pt A

No petroleum hydrocarbon staining or odor observed



## **ATTACHMENT B**

### **Laboratory Analytical Report**



May 08, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Wolfe USX CC #07-25

Project Number - [none]

Attached are your analytical results for Noble - Wolfe USX CC #07-25 received by Origins Laboratory, Inc. April 24, 2024. This project is associated with Origins project number Y404722-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

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

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



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

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Wolfe USX CC #07-25

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-01@4'	Y404722-01	Soil	April 24, 2024 12:00	04/24/2024 18:10
FL-SS-02@4'	Y404722-02	Soil	April 24, 2024 13:05	04/24/2024 18:10
Background-01@2'	Y404722-03	Soil	April 24, 2024 12:05	04/24/2024 18:10
Background-02@2'	Y404722-04	Soil	April 24, 2024 12:10	04/24/2024 18:10

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 - Wolfe USX CC #07-25

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4404722

Client: Eagle

Client Project ID: Wolfe USX #07-25

Checklist Completed by: JAN/24/12

Shipped Via: HD

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

Date/time completed: 4/25/12

Airbill #: N/A

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

Cooler Number/Temperature: 1, 3.5 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 1005

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> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<u>50</u>
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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <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)			<input checked="" type="checkbox"/>	
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)

4/26/12  
 Date/Time Reviewed

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 - Wolfe USX CC #07-25

**FL-SS-01@4'**

**4/24/2024 12:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404722-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.180		0.0996	mg/L	1	B4D2914	04/29/2024	05/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D2538	04/25/2024	05/03/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	98.0 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D2556	04/25/2024	05/03/2024	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	"	"	"	"	05/06/2024	Ua
Xylenes, total	ND		0.00200	"	"	"	"	05/03/2024	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

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 - Wolfe USX CC #07-25

**FL-SS-01@4'**

**4/24/2024 12:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404722-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			B4D25 56	04/25/2024	05/03/2024	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.4 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.03		0.499	meq/L	10	[CALC]	04/27/2024	04/29/2024	
Magnesium	1.13		0.823	"	"	"	"	"	
Sodium	2.24		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E0133	05/01/2024	05/04/2024	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

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 - Wolfe USX CC #07-25

**FL-SS-01@4'**

**4/24/2024 12:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404722-01 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B4E0133	05/01/2024	05/04/2024	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	104 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	95.4 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	107 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.26			pH Units	1	B4D2710	04/27/2024	04/29/2024	
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**SAR by 20B Saturated Paste**

SAR	1.78		0.0100	SAR	1	B4D2704	04/27/2024	04/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.627		0.00500	mmhos/cm	1	B4D2710	04/27/2024	04/29/2024	
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**Table 915 metals by EPA 6020B**

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**FL-SS-01@4'**

**4/24/2024 12:00:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404722-01 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	2.48		0.250	mg/kg	10	B4D2528	04/25/2024	04/29/2024	
Barium	68.2		8.63	"	"	"	"	"	
Cadmium	0.107		0.0863	"	"	"	"	"	
Copper	ND		8.63	"	"	"	"	"	
Lead	6.08		0.863	"	"	"	"	"	
Nickel	5.43		0.863	"	"	"	"	"	
Selenium	ND		0.224	"	"	"	"	"	
Silver	ND		0.0863	"	"	"	"	"	
Zinc	ND		31.9	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.165	0.412	mg/kg dry	1	2605451	05/01/2024	05/02/2024	U
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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**FL-SS-02@4'**  
**4/24/2024 1:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404722-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.262		0.101	mg/L	1	B4D2914	04/29/2024	05/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D2538	04/25/2024	05/03/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	96.4 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D2556	04/25/2024	05/03/2024	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	"	"	"	"	05/06/2024	Ua
Xylenes, total	ND		0.00200	"	"	"	"	05/03/2024	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**FL-SS-02@4'**  
**4/24/2024 1:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404722-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			B4D25 56	04/25/2024	05/03/2024	
Surrogate: Toluene-d8	99.0 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.3 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.02		0.499	meq/L	10	[CALC]	04/27/2024	04/29/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.94		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E0133	05/01/2024	05/04/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	0.006		0.005	"	"	"	"	"	
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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Andrew Newberry  
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 Project: Noble - Wolfe USX CC #07-25

**FL-SS-02@4'**

**4/24/2024 1:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404722-02 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B4E0133	05/01/2024	05/04/2024	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	103 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.1 %		60-130			"	"	"	
Surrogate: Pyrene-d10	93.4 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	107 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.56			pH Units	1	B4D2710	04/27/2024	04/29/2024	
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**SAR by 20B Saturated Paste**

SAR	2.25		0.0100	SAR	1	B4D2704	04/27/2024	04/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.337		0.00500	mmhos/cm	1	B4D2710	04/27/2024	04/29/2024	
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**Table 915 metals by EPA 6020B**

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

FL-SS-02@4'

4/24/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y404722-02 (Soil)

**Table 915 metals by EPA 6020B**

Arsenic	3.82	0.269	mg/kg	10	B4D2528	04/25/2024	04/29/2024	
Barium	94.2	9.29	"	"	"	"	"	
Cadmium	0.176	0.0929	"	"	"	"	"	
Copper	ND	9.29	"	"	"	"	"	
Lead	7.51	0.929	"	"	"	"	"	
Nickel	8.36	0.929	"	"	"	"	"	
Selenium	ND	0.242	"	"	"	"	"	
Silver	ND	0.0929	"	"	"	"	"	
Zinc	40.2	34.4	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.138	0.346	mg/kg dry	1	2605451	05/01/2024	05/02/2024	U
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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 - Wolfe USX CC #07-25

**Background-01@2'**  
**4/24/2024 12:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404722-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.320		0.0986	mg/L	1	B4D2914	04/29/2024	05/01/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.25		0.499	meq/L	10	[CALC]	04/27/2024	04/29/2024	
Magnesium	1.46		0.823	"	"	"	"	"	
Sodium	3.90		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	8.00			pH Units	1	B4D2710	04/27/2024	04/29/2024	
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**SAR by 20B Saturated Paste**

SAR	2.87		0.0100	SAR	1	B4D2704	04/27/2024	04/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.891		0.00500	mmhos/cm	1	B4D2710	04/27/2024	04/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	5.24		0.262	mg/kg	10	B4D2528	04/25/2024	04/29/2024	
Barium	75.9		9.05	"	"	"	"	"	
Cadmium	0.126		0.0905	"	"	"	"	"	
Copper	ND		9.05	"	"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**Background-01@2'**  
**4/24/2024 12:05:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404722-03 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	7.43		0.905	mg/kg	10	B4D2528	04/25/2024	04/29/2024	
Nickel	8.69		0.905	"	"	"	"	"	
Selenium	0.354		0.235	"	"	"	"	"	
Silver	ND		0.0905	"	"	"	"	"	
Zinc	46.1		33.5	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	0.164	0.147	0.368	mg/kg dry	1	2605451	05/01/2024	05/02/2024	J
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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 - Wolfe USX CC #07-25

**Background-02@2'**  
**4/24/2024 12:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404722-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.325		0.101	mg/L	1	B4D2914	04/29/2024	05/01/2024	
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.10		0.499	meq/L	10	[CALC]	04/27/2024	04/29/2024	
Magnesium	1.38		0.823	"	"	"	"	"	
Sodium	3.74		0.435	"	"	"	"	"	

**pH in Soil by 9045D**

pH	7.98			pH Units	1	B4D2710	04/27/2024	04/29/2024	
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**SAR by 20B Saturated Paste**

SAR	2.84		0.0100	SAR	1	B4D2704	04/27/2024	04/29/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.868		0.00500	mmhos/cm	1	B4D2710	04/27/2024	04/29/2024	
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**Table 915 metals by EPA 6020B**

Arsenic	2.47		0.269	mg/kg	10	B4D2528	04/25/2024	04/29/2024	
Barium	67.9		9.29	"	"	"	"	"	
Cadmium	0.116		0.0929	"	"	"	"	"	
Copper	ND		9.29	"	"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**Background-02@2'**  
**4/24/2024 12:10:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y404722-04 (Soil)**

**Table 915 metals by EPA 6020B**

Lead	5.49		0.929	mg/kg	10	B4D2528	04/25/2024	04/29/2024	
Nickel	6.62		0.929	"	"	"	"	"	
Selenium	0.245		0.242	"	"	"	"	"	
Silver	ND		0.0929	"	"	"	"	"	
Zinc	ND		34.4	"	"	"	"	"	

**Total Metals by 7196A**

Hexavalent Chromium	ND	0.138	0.345	mg/kg dry	1	2605451	05/01/2024	05/02/2024	U
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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**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 B4D2538 - EPA 3550B</b>										
<b>Blank (B4D2538-BLK1)</b>										
					Prepared: 04/25/2024 Analyzed: 05/02/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	28		"	24.9		114	50-150			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**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 B4D2538 - EPA 3550B**

**LCS (B4D2538-BS1)**

Prepared: 04/25/2024 Analyzed: 05/03/2024

Diesel (C10-C28)	948	50.0	mg/kg	1000		94.8	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	70-130			
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**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 B4D2538 - EPA 3550B**

<b>Matrix Spike (B4D2538-MS1)</b>	<b>Source: Y404712-01</b>			Prepared: 04/25/2024 Analyzed: 05/03/2024						
Diesel (C10-C28)	884	50.0	mg/kg	1000	ND	88.4	70-130			
Residual Range Organics (C28-C40)	955	200	"	1000	ND	95.5	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

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 - Wolfe USX CC #07-25

**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 B4D2538 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4D2538-MSD1)</b>					<b>Source: Y404712-01</b>					Prepared: 04/25/2024 Analyzed: 05/03/2024
Diesel (C10-C28)	798	50.0	mg/kg	1000	ND	79.8	70-130	10.3	35	
Residual Range Organics (C28-C40)	888	200	"	1000	ND	88.8	70-130	7.24	35	
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**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 B4D2556 - EPA 5030 (soil)**

**Blank (B4D2556-BLK1)**

Prepared: 04/25/2024 Analyzed: 05/03/2024

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	0.14		"	0.125	111		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	98.0		70-130			

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**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 B4D2556 - EPA 5030 (soil)**

**LCS (B4D2556-BS1)**

Prepared: 04/25/2024 Analyzed: 05/03/2024

1,2,4-Trimethylbenzene	0.0981	0.00200	mg/kg	0.100		98.1	70-130			
1,3,5-Trimethylbenzene	0.0984	0.00200	"	0.100		98.4	70-130			
Benzene	0.0926	0.00200	"	0.100		92.6	70-130			
Ethylbenzene	0.0966	0.00200	"	0.100		96.6	70-130			
Naphthalene	0.0958	0.00380	"	0.100		95.8	70-130			
Toluene	0.0934	0.00200	"	0.100		93.4	70-130			
o-Xylene	0.0987	0.00200	"	0.100		98.7	70-130			
m,p-Xylene	0.186	0.00400	"	0.200		93.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	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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**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 B4D2556 - EPA 5030 (soil)

Matrix Spike (B4D2556-MS1)	Source: Y404722-01			Prepared: 04/25/2024 Analyzed: 05/03/2024						
1,2,4-Trimethylbenzene	0.0969	0.00200	mg/kg	0.100	ND	96.9	70-130			
1,3,5-Trimethylbenzene	0.0970	0.00200	"	0.100	ND	97.0	70-130			
Benzene	0.0975	0.00200	"	0.100	ND	97.5	70-130			
Ethylbenzene	0.0934	0.00200	"	0.100	ND	93.4	70-130			
Naphthalene	0.104	0.00380	"	0.100	ND	104	70-130			
Toluene	0.108	0.00200	"	0.100	ND	108	70-130			
o-Xylene	0.0975	0.00200	"	0.100	ND	97.5	70-130			
m,p-Xylene	0.187	0.00400	"	0.200	ND	93.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.1	70-130			

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**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 B4D2556 - EPA 5030 (soil)

Matrix Spike Dup (B4D2556-MSD1)	Source: Y404722-01			Prepared: 04/25/2024 Analyzed: 05/03/2024						
1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100	ND	100	70-130	3.53	20	
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	3.66	20	
Benzene	0.100	0.00200	"	0.100	ND	100	70-130	2.53	20	
Ethylbenzene	0.0977	0.00200	"	0.100	ND	97.7	70-130	4.48	20	
Naphthalene	0.109	0.00380	"	0.100	ND	109	70-130	4.40	20	
Toluene	0.109	0.00200	"	0.100	ND	109	70-130	0.664	20	
o-Xylene	0.102	0.00200	"	0.100	ND	102	70-130	4.45	20	
m,p-Xylene	0.196	0.00400	"	0.200	ND	97.9	70-130	4.31	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.8	70-130			

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**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 B4D2528 - EPA 3050B**

**Blank (B4D2528-BLK1)**

Prepared: 04/25/2024 Analyzed: 04/30/2024

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

**LCS (B4D2528-BS1)**

Prepared: 04/25/2024 Analyzed: 04/29/2024

Arsenic	5.94	0.290	mg/kg	5.00		119	80-120			
Barium	544	10.0	"	500		109	80-120			
Cadmium	5.48	0.100	"	5.00		110	80-120			
Copper	58.1	10.0	"	50.0		116	80-120			
Lead	5.68	1.00	"	5.00		114	80-120			
Nickel	5.72	1.00	"	5.00		114	80-120			
Selenium	10.8	0.260	"	9.50		114	80-120			
Silver	5.83	0.100	"	5.00		117	80-120			
Zinc	59.6	37.0	"	50.0		119	80-120			

**Matrix Spike (B4D2528-MS1)**

Source: Y404717-01

Prepared: 04/25/2024 Analyzed: 04/29/2024

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 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**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 B4D2528 - EPA 3050B**

<b>Matrix Spike (B4D2528-MS1)</b>		<b>Source: Y404717-01</b>			Prepared: 04/25/2024 Analyzed: 04/29/2024					
Arsenic	9.08	0.271	mg/kg	4.67	3.27	125	75-125			
Barium	614	9.33	"	467	112	107	75-125			
Cadmium	5.50	0.0933	"	4.67	0.165	114	75-125			
Copper	63.1	9.33	"	46.7	9.27	115	75-125			
Lead	13.2	0.933	"	4.67	8.45	102	75-125			
Nickel	13.5	0.933	"	4.67	8.09	115	75-125			
Selenium	10.1	0.243	"	8.87	0.128	113	75-125			
Silver	5.39	0.0933	"	4.67	0.0611	114	75-125			
Zinc	91.3	34.5	"	46.7	39.7	111	75-125			

<b>Matrix Spike Dup (B4D2528-MSD1)</b>		<b>Source: Y404717-01</b>			Prepared: 04/25/2024 Analyzed: 04/29/2024					
Arsenic	8.83	0.271	mg/kg	4.68	3.27	119	75-125	2.86	20	
Barium	622	9.35	"	468	112	109	75-125	1.28	20	
Cadmium	5.67	0.0935	"	4.68	0.165	118	75-125	3.06	20	
Copper	62.7	9.35	"	46.8	9.27	114	75-125	0.574	20	
Lead	13.3	0.935	"	4.68	8.45	103	75-125	0.561	20	
Nickel	13.3	0.935	"	4.68	8.09	111	75-125	1.44	20	
Selenium	9.88	0.243	"	8.89	0.128	110	75-125	2.25	20	
Silver	5.42	0.0935	"	4.68	0.0611	115	75-125	0.571	20	
Zinc	92.0	34.6	"	46.8	39.7	112	75-125	0.767	20	

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**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 B4E0133 - EPA 3580**

**Blank (B4E0133-BLK1)**

Prepared: 05/01/2024 Analyzed: 05/04/2024

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	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		94.9	60-130			
Surrogate: Pyrene-d10	200		"	200		98.0	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

**LCS (B4E0133-BS1)**

Prepared: 05/01/2024 Analyzed: 05/04/2024

1-Methylnaphthalene	0.222	0.002	mg/kg	0.200		111	70-130			
2-Methylnaphthalene	0.221	0.002	"	0.200		110	70-130			
Acenaphthene	0.225	0.020	"	0.200		112	70-130			
Anthracene	0.210	0.020	"	0.200		105	70-130			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**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 B4E0133 - EPA 3580**

**LCS (B4E0133-BS1)**

Prepared: 05/01/2024 Analyzed: 05/04/2024

Benzo (a) anthracene	0.214	0.005	mg/kg	0.200		107	70-130			
Benzo (a) pyrene	0.214	0.020	"	0.200		107	70-130			
Benzo (b) fluoranthene	0.224	0.020	"	0.200		112	70-130			
Benzo (g,h,i) perylene	0.204	0.020	"	0.200		102	70-130			
Benzo (k) fluoranthene	0.205	0.020	"	0.200		102	70-130			
Chrysene	0.216	0.020	"	0.200		108	70-130			
Dibenz (a,h) anthracene	0.225	0.020	"	0.200		113	70-130			
Fluoranthene	0.209	0.020	"	0.200		104	70-130			
Fluorene	0.235	0.020	"	0.200		117	70-130			
Indeno (1,2,3-cd) pyrene	0.195	0.020	"	0.200		97.7	70-130			
Naphthalene	0.226	0.002	"	0.200		113	70-130			
Phenanthrene	0.219	0.020	"	0.200		109	70-130			
Pyrene	0.211	0.020	"	0.200		105	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		93.8	60-130			
Surrogate: Pyrene-d10	190		"	200		94.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

**Matrix Spike (B4E0133-MS1)**

**Source: Y404721-01**

Prepared: 05/01/2024 Analyzed: 05/04/2024

1-Methylnaphthalene	0.216	0.002	mg/kg	0.200	ND	108	70-130			
2-Methylnaphthalene	0.217	0.002	"	0.200	ND	109	70-130			
Acenaphthene	0.218	0.020	"	0.200	ND	109	70-130			
Anthracene	0.206	0.020	"	0.200	ND	103	70-130			
Benzo (a) anthracene	0.210	0.005	"	0.200	ND	105	70-130			
Benzo (a) pyrene	0.214	0.020	"	0.200	ND	107	70-130			
Benzo (b) fluoranthene	0.223	0.020	"	0.200	ND	112	70-130			
Benzo (g,h,i) perylene	0.213	0.020	"	0.200	0.0007	106	70-130			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**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 B4E0133 - EPA 3580**

<b>Matrix Spike (B4E0133-MS1)</b>		<b>Source: Y404721-01</b>			Prepared: 05/01/2024 Analyzed: 05/04/2024					
Benzo (k) fluoranthene	0.194	0.020	mg/kg	0.200	0.001	96.5	70-130			
Chrysene	0.211	0.020	"	0.200	ND	105	70-130			
Dibenz (a,h) anthracene	0.229	0.020	"	0.200	ND	115	70-130			
Fluoranthene	0.206	0.020	"	0.200	ND	103	70-130			
Fluorene	0.225	0.020	"	0.200	ND	113	70-130			
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200	0.002	102	70-130			
Naphthalene	0.222	0.002	"	0.200	ND	111	70-130			
Phenanthrene	0.210	0.020	"	0.200	ND	105	70-130			
Pyrene	0.198	0.020	"	0.200	ND	99.2	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		94.3	60-130			
Surrogate: Pyrene-d10	190		"	200		94.1	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

<b>Matrix Spike Dup (B4E0133-MSD1)</b>		<b>Source: Y404721-01</b>			Prepared: 05/01/2024 Analyzed: 05/04/2024					
1-Methylnaphthalene	0.220	0.002	mg/kg	0.200	ND	110	70-130	1.65	20	
2-Methylnaphthalene	0.219	0.002	"	0.200	ND	110	70-130	0.939	20	
Acenaphthene	0.223	0.020	"	0.200	ND	112	70-130	2.42	20	
Anthracene	0.214	0.020	"	0.200	ND	107	70-130	3.60	20	
Benzo (a) anthracene	0.222	0.005	"	0.200	ND	111	70-130	5.51	20	
Benzo (a) pyrene	0.215	0.020	"	0.200	ND	107	70-130	0.262	20	
Benzo (b) fluoranthene	0.227	0.020	"	0.200	ND	113	70-130	1.57	20	
Benzo (g,h,i) perylene	0.221	0.020	"	0.200	0.0007	110	70-130	3.57	20	
Benzo (k) fluoranthene	0.218	0.020	"	0.200	0.001	109	70-130	11.7	20	
Chrysene	0.219	0.020	"	0.200	ND	109	70-130	3.62	20	
Dibenz (a,h) anthracene	0.236	0.020	"	0.200	ND	118	70-130	2.90	20	
Fluoranthene	0.206	0.020	"	0.200	ND	103	70-130	0.160	20	

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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 B4E0133 - EPA 3580**

<b>Matrix Spike Dup (B4E0133-MSD1)</b>	<b>Source: Y404721-01</b>			<b>Prepared: 05/01/2024 Analyzed: 05/04/2024</b>						
Fluorene	0.230	0.020	mg/kg	0.200	ND	115	70-130	2.27	20	
Indeno (1,2,3-cd) pyrene	0.221	0.020	"	0.200	0.002	110	70-130	6.60	20	
Naphthalene	0.227	0.002	"	0.200	ND	113	70-130	1.86	20	
Phenanthrene	0.217	0.020	"	0.200	ND	109	70-130	3.23	20	
Pyrene	0.205	0.020	"	0.200	ND	103	70-130	3.27	20	
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		93.9	60-130			
Surrogate: Pyrene-d10	190		"	200		93.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

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Andrew Newberry  
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 Project: Noble - Wolfe USX CC #07-25

**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 B4D2704 - Saturated Paste Metals**

**Blank (B4D2704-BLK1)**

Prepared: 04/27/2024 Analyzed: 04/29/2024

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

**Duplicate (B4D2704-DUP1)**

**Source: Y404720-01**

Prepared: 04/27/2024 Analyzed: 04/29/2024

SAR	ND	0.0100	SAR		5.04				200	
Calcium PPM	165	10.0	mg/L		151			8.57	50	
Magnesium PPM	24.6	10.0	"		34.0			32.2	50	
Sodium PPM	290	10.0	"		264			9.71	50	

**Batch B4D2914 - DTPA Sorbitol Preparation**

**Blank (B4D2914-BLK1)**

Prepared: 04/29/2024 Analyzed: 05/01/2024

Boron	ND	0.100	mg/L							
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**Duplicate (B4D2914-DUP1)**

**Source: Y404721-03**

Prepared: 04/29/2024 Analyzed: 05/01/2024

Boron	1.53	0.0989	mg/L		1.49			2.44	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 - Wolfe USX CC #07-25

**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 B4D2710 - Saturated Paste pH/EC**

**Blank (B4D2710-BLK1)**

Prepared: 04/27/2024 Analyzed: 04/29/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B4D2710-DUP1)**

**Source: Y404720-01**

Prepared: 04/27/2024 Analyzed: 04/29/2024

Specific Conductance (EC)	1.71	0.00500	mmhos/cm		1.62		5.25	25	
pH	8.23		pH Units		8.20		0.365	25	

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Wolfe USX CC #07-25

**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
<b>Batch 2605451 - SW846 3060A</b>										
<b>BLANK (1205720252-BLK)</b>					Prepared: 05/01/2024 Analyzed: 05/02/2024					
Hexavalent Chromium	ND	0.324	mg/kg				-			U
<b>LCS (1205720253-BKS)</b>					Prepared: 05/01/2024 Analyzed: 05/02/2024					
Hexavalent Chromium	3.51	0.353	mg/kg	3.53		99.7	80-120			
<b>DUP (1205720254 D)</b>					Source: 665028016 Prepared: 05/01/2024 Analyzed: 05/02/2024					
Hexavalent Chromium	ND	0.337	mg/kg dry		<0.135		0-50	N/A	50	U
<b>MS (1205720255 S)</b>					Source: 665028016 Prepared: 05/01/2024 Analyzed: 05/02/2024					
Hexavalent Chromium	2.02	0.331	mg/kg dry	3.31	<0.132	60.9	75-125			
<b>DUP (1205720256 D)</b>					Source: 665033001 Prepared: 05/01/2024 Analyzed: 05/02/2024					
Hexavalent Chromium	ND	0.400	mg/kg dry		<0.160		0-50	N/A	50	U
<b>MS (1205720257 S)</b>					Source: 665033001 Prepared: 05/01/2024 Analyzed: 05/02/2024					
Hexavalent Chromium	2.25	0.407	mg/kg dry	4.07	<0.163	52	75-125			
<b>ILCS (1205720258-ILCS)</b>					Prepared: 05/01/2024 Analyzed: 05/02/2024					
Hexavalent Chromium	5.93	0.288	mg/kg	5.80		102	80-120			

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Wolfe USX CC #07-25

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**Notes and Definitions**

Ua Sample is Non-Detect.

U Result not detected above the detection limit

J Greater than the detection limit but less than the reporting limit

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.



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Jordan A. Bynon, Project Manager